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GereComSaber

Grupo 13



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Resumo

A GereComSaber é uma empresa de Gestão de Condomínios que pretendia a informatização do seu Sistema e delegou em nós a tarefa de o criar.

Nesta fase, identificamos as necessidades do Cliente face à futura implementação, assim como todos os requisitos associados a este projecto.

Numa primeira abordagem, modelamos em VPP as principais acções no Sistema assim como os actores intervenientes.

À medida que avançamos na modelação, tornou-se evidente proceder a algumas alterações à versão apresentada na 1ª Fase. Com o refinamento dos diagramas, apercebemo-nos de alguns pontos que poderiam ser melhorados ou até mesmo corrigidos, mas sem mudanças drásticas na modelação, apenas se tornaram necessárias ora para melhorar a implementação, ora para corrigir lapsos da fase anterior.

Ao longo deste documento, para além de apresentarmos a evolução da nossa modelação, também faremos referências às eventuais alterações.

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1. Introdução

Neste primeiro capítulo será escrutinado o contexto no qual este projecto foi elaborado, assim como todos os objectivos que pretendemos alcançar.

1.1. Contextualização

A interacção entre os membros do nosso grupo e o Cliente permitiu-nos identificar, numa primeira análise, o que seria pretendido alcançar no fim do projecto. Assim, conseguimos identificar que a empresa GereComSaber, se via a braços com a difícil tarefa de gerir “a comunicação” entre os seus clientes e os fornecedores que tinha a seu serviço.

O nosso objectivo, será desenvolver uma plataforma que permita à GereComSaber, ter uma relação de dados e informações fiáveis, e permitir ao utilizador, ter um fácil acesso e controlo de todas as requisições feitas a fornecedores através dos seus clientes.

1.2. Apresentação do Caso de Estudo

A GereComSaber é uma empresa que gere condomínios fechados e tem a seu cargo a tarefa de fazer chegar aos seus clientes, através de subempreiteiros, os serviços que estes querem contratar.

O sistema a ser desenvolvido tem que contemplar uma carteira de clientes e fornecedores, a qual é criada pela GereComSaber, e disponibiliza aos seus membros os respectivos códigos de acesso. Cada membro, seja ele morador ou fornecedor, constará da Base de Dados da GereComSaber e terá a ele associados todos os movimentos, propriedades, serviços, facturação, etc.

Actualmente, a principal dificuldade da GereComSaber, centra-se no registo e análise dos serviços requisitados pelos clientes, bem como, o correcto manuseamento de alterações aos serviços contratados, a título de exemplo, a alteração de período de execução, o período de pagamento ou até mesmo o cancelamento do serviço.

Ao modelarmos o Sistema para a GereComSaber, implementamos um método para dar resposta a essa dificuldade, ou seja, cada Morador depois de se tornar um membro da GereComSaber, pode requisitar quaisquer serviços acedendo à plataforma destinada a esse

fim. O morador escolhe o período de facturação por defeito que pretende e a cada serviço que requisite, independentemente do período de execução e facturação, irá ser criada uma nota de facturação respeitando a escolha do Morador. A qualquer momento, o Morador pode alterar o período de facturação, e o Sistema deverá actualizar toda a informação e ceder ao Morador as novas modalidades e valor do pagamento.

De forma a facilitar a interacção com o Sistema e a reduzir a percentagem de erro humano, optamos por automatizar operações tais como, criar uma ordem de pagamento ou factura, rectificar uma factura mediante um estorno ou um acréscimo, seleccionar um fornecedor para um serviço requisitado pelo Morador e o cálculo da percentagem de lucro que cabe à GereComSaber.

1.3. Motivação e Objectivos

A motivação do nosso grupo prende-se pelo desafio de encontrar uma solução de implementação que vá ao encontro das necessidades do nosso Cliente e assim criar uma aplicação com uma possível aplicação futura no mercado real.

1.4. Estrutura do Relatório

Neste documento, apresentamos um relatório de todas as tarefas realizadas durante esta fase de recolha de requisitos e modelação.

Nesta fase, já foram identificados os requisitos e apresentamos mais para a frente, o Modelo de Domínio e Diagramas de Use Case.

Os Diagramas de Use Case estão organizados em sub-diagramas para uma fácil observação e percepção.

A evolução do projecto já permite também uma vista sobre o Diagrama de Classes e de como o Sistema se irá comportar mediante o funcionamento dos Use Case através dos Diagramas de Sequência.

2. Modelação

Nesta secção, apresentamos todos os passos de modelação em VPP concluídos nesta fase. Depois de alcançado o Modelo de Domínio identificamos todas as acções que descrevem o Sistema através dos Use Case.

Abordamos nesta secção os Use Case que, na nossa opinião, são os mais relevantes e toda a informação ou diagramas adicionais poderão ser consultados em anexo.

2.1. Modelo de Domínio

O Modelo de Domínio identifica todas as entidades do Sistema e algumas das relações entre elas. Permite-nos também uma melhor uniformização de todo o Sistema, uma vez que as entidades identificadas nesta fase serão coerentes ao longo da modelação e implementação.

Nesta 2ª Fase do projecto decidimos alterar ligeiramente o Modelo de Domínio. As alterações devem-se à melhor percepção das características do Sistema, pelo que se tornou, na nossa opinião, mais coerente que a primeira versão.

Em concordância com o que foi dito anteriormente, chegamos ao seguinte Modelo de Domínio conceptual:

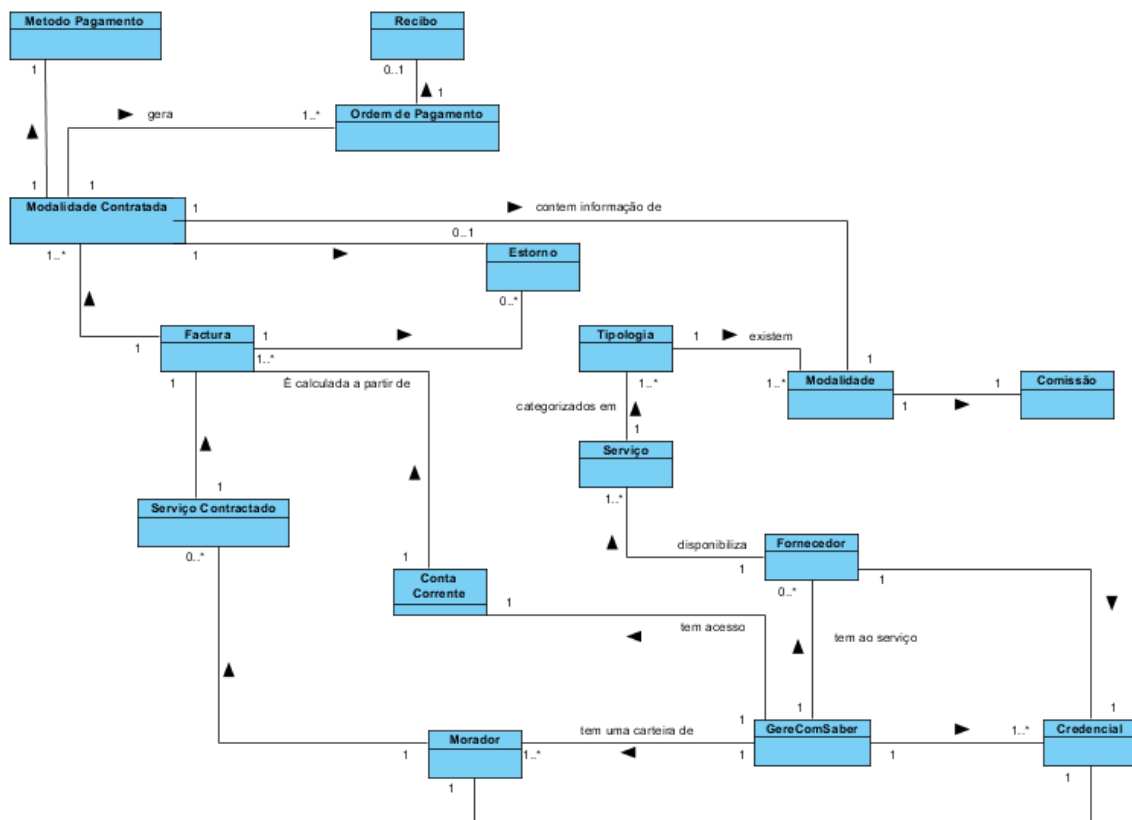


Figura 1 - Modelo de Domínio

2.2. Diagrama de Use Case

Depois de identificadas as entidades e parte das relações entre elas, identificamos os Use Case do Sistema que permite uma melhor compreensão do Sistema, nomeadamente, os actores intervenientes e as acções que interagem com o Sistema.

Apresentamos abaixo, uma vista geral de como os actores interagem com o Sistema.

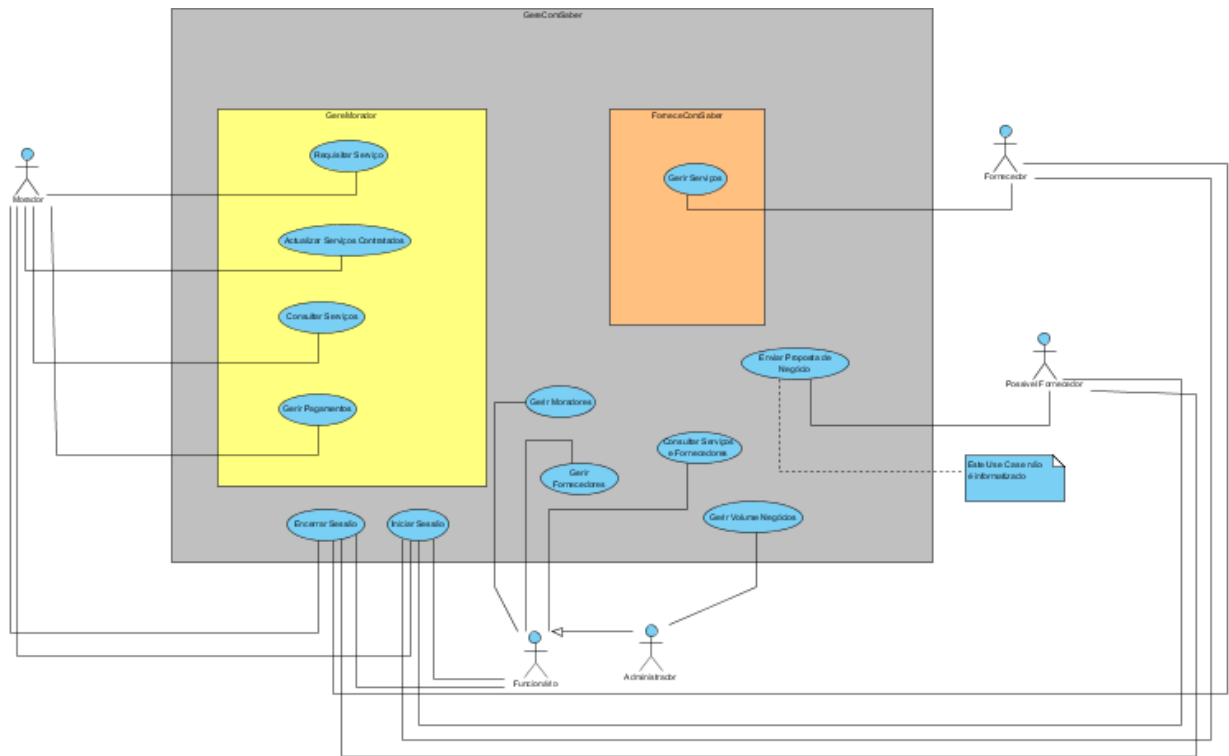


Figura 2 – Diagrama de Use Cases

Ao identificarmos os Use Case verificamos que poderíamos dividir o sistema GereComSaber em dois subsistemas: o GereMorador e o ForneceComSaber.

O subsistema GereMorador, é parte integrante do Sistema GereComSaber mas está apenas dirigido para o Morador. O Morador depois de devidamente autenticado, terá acesso a opções como Requisitar Serviço, Actualizar Serviços Contratados, Gerir Pagamentos e realizar diversas consultas.

O mesmo principio se aplica ao GereComSaber.

O utilizador do Sistema GereComSaber, terá dois perfis, o de Funcionário e o de Administrador, este último terá acesso a todas as funcionalidade do perfil Funcionário com o acréscimo de uma apenas a si dirigida: Gerir Volume Negócios.

Nas secções seguintes, apresentaremos ao pormenor, os Use Case mais significativos do Diagrama.

2.3. Use Case Requisitar Serviço

Consideramos este Use Case como essencial, pois é face à requisição de serviços no Sistema GereComSaber, que todas as outras operações fazem sentido. Há medida que os serviços são prestados, são despoletadas outras acções na GereComSaber, tais como requerer Fornecedores, facturação etc.

Description1		
Super Use Case		
Author	Christophe	
Date	1/Dez/2009 11:52:39	
Brief Description	Permite ao morador contratar uma modalidade de um serviço	
Preconditions	Utilizador autenticado como Morador	
Post-conditions	Uma propriedade fica com mais uma modalidade contratada	
Flow of Events		
	1	
	2	Escolhe um serviço
	3	
	4	Escolhe uma tipologia
	5	
	6	Escolhe uma modalidade
	7	
	8	Insere tempo
	9	
	10	Escolhe forma de pagamento
	11	
	12	
	13	Confirma
	14	
	15	
	16	
	17	
Exception		
1 - Não existem serviços no sistema	1	
Alternative		
12a)	1	Não confirma
	2	

Figura 3 – Descrição Textual do Use Case Requisitar Serviço

2.4. Actualizar Serviços Contratados

Neste Use Case abrangemos várias acções pelo que se tornou evidente a criação de um subdiagrama que apresentamos de seguida.

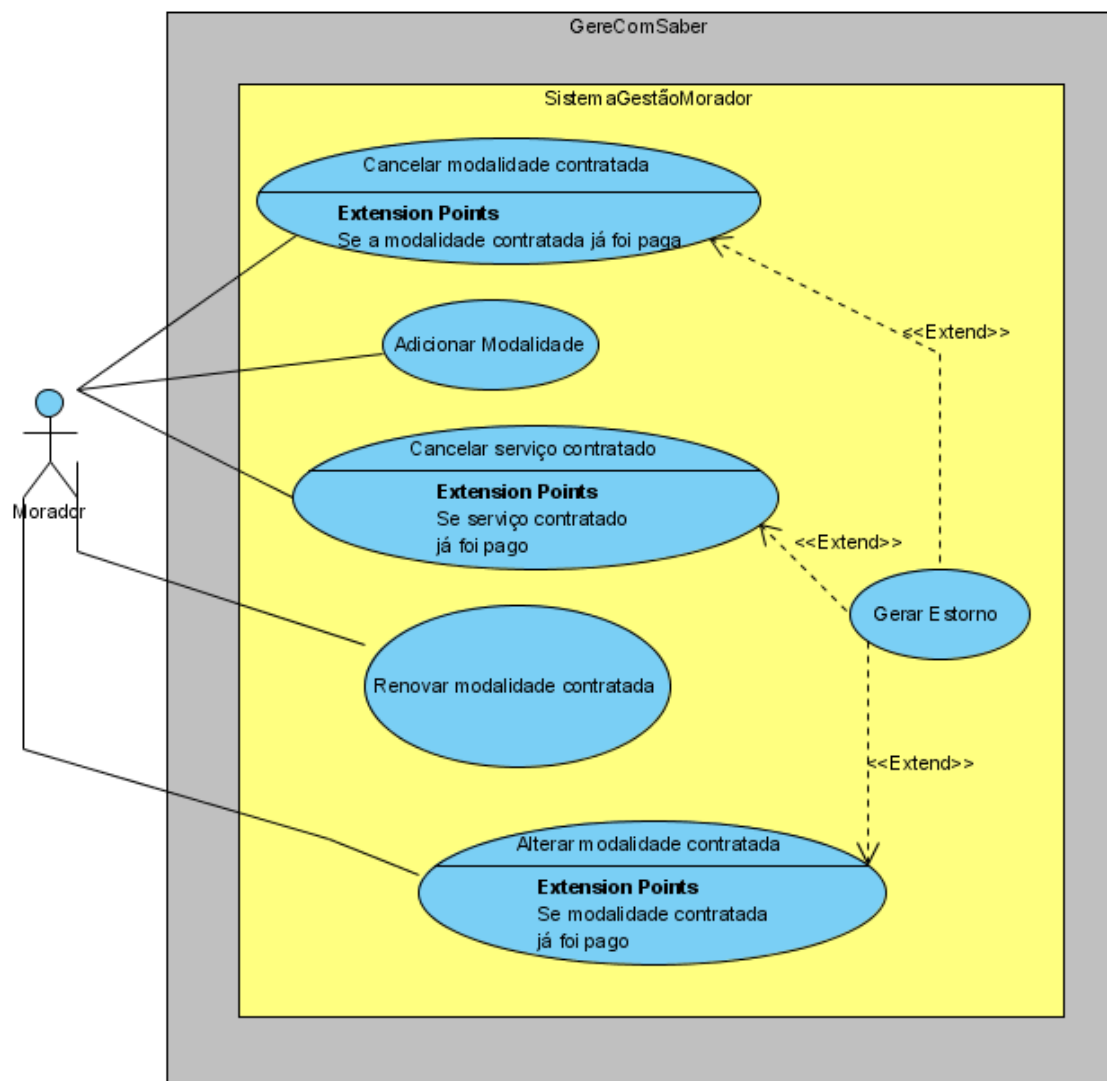


Figura 4 – Subdiagrama Atualizar Serviços Contratados

Consideremos o Use Case Renovar Modalidade Contratada, e visualizemos o seu modo de funcionamento. De relevar que os Use Case deste subdiagrama são de funcionamento similar.

Main		
Super Use Case	Atualizar serviços contratados	
Author	Bruno	
Date	22/Nov/2009 18:00:49	
Brief Description	Morador faz a renovação de uma modalidade contratada	
Preconditions	Morador autenticado; Morador tem de possuir a modalidade que pretende renovar; O fornecedor de serviços tem de possuir a modalidade que vai ser renovada.	
Post-conditions	Modalidade renovada com sucesso.	
Flow of Events		
Alternative 1		
6a - Morador decide não renovar modalidade		
Alternative 2		
7a - O serviço já não existe		

	Actor Input	System Response
1		Apresenta a lista de modalidades contratadas
2	Escolhe modalidade a renovar	
3		Apresenta as respectivas características
4	Escolhe por quanto tempo quer renovar a modalidade	
5		Pede Confirmação
6	Confirma renovação	
7		Valida renovação
8		Recalcula ordens de pagamento
9		Modalidade renovada

	Actor Input	System Response
1		Volta ao passo 1

	Actor Input	System Response
1		Volta ao passo 1

Figura 5 – Descrição Textual do Use Case Renovar Modalidade Contratada

2.5. Use Case Gerir Pagamentos

O Use Case Gerir Pagamentos, engloba um subdiagrama com as acções de pagar factura e consultar facturas e recibos como é apresentado abaixo.

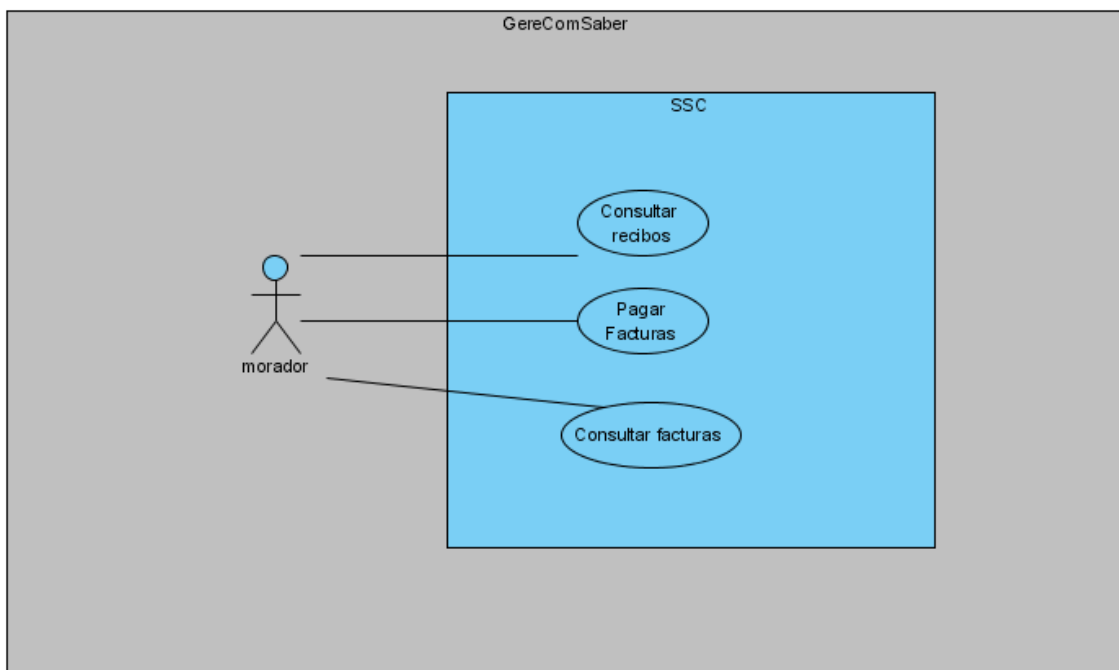


Figura 6 – Subdiagrama Gerir Pagamentos

O Morador quando pretende pagar uma factura é-lhe apresentada pelo sistema, uma lista de facturas com ordens de pagamento ainda não liquidadas mas já vencidas. O Morador selecciona as ordens de pagamento que pretende pagar e posteriormente efectua o pagamento. A forma do morador efectuar o pagamento é externa ao nosso sistema.

2.6. Use Case Gerir Serviços

O Use Case Gerir Serviços tem um subdiagrama com todas as acções que um fornecedor pode efectuar no Sistema GereComSaber.

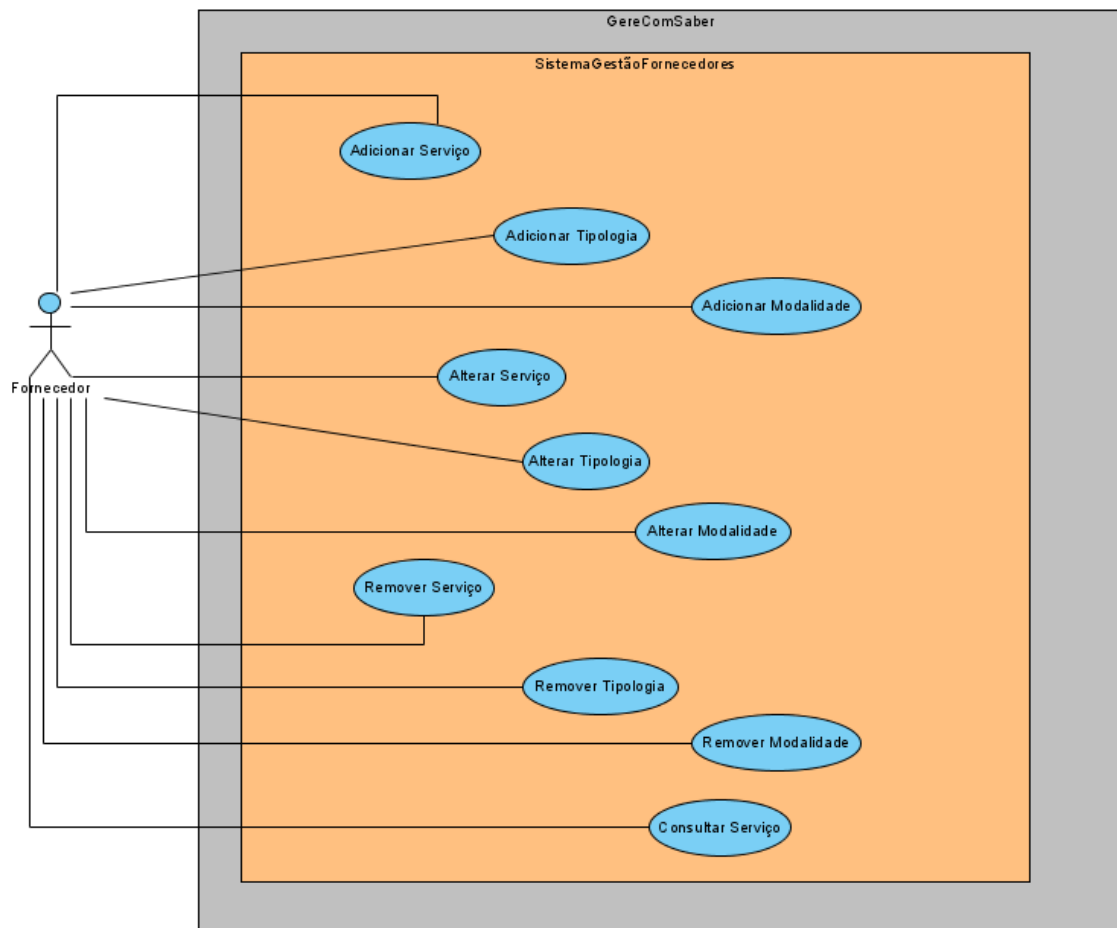


Figura 8 – Subdiagrama Gerir Serviços

Neste diagrama podemos constatar que um Fornecedor depois de inserido no Sistema como Fornecedor Oficial pelo Administrador poderá actualizar os seus serviços. A título de exemplo, se um Fornecedor põe ao dispor da GereComSaber um determinado serviço e posteriormente acrescenta mais tipologias ou modalidades no serviço, poderá actualizar no Sistema essas modalidades. A um serviço tem de estar obrigatoriamente associado pelo menos uma tipologia e a esta associada pelo menos uma modalidade.

A descrição textual do Use Case Adicionar Modalidade dá uma vista geral de como o Sistema fará essa alteração.

Main																																
Super Use Case																																
Author																																
Date																																
Brief Description	Permite ao fornecedor adicionar uma modalidade a uma tipologia																															
Preconditions	Estar autenticado como fornecedor																															
Post-conditions	Existe uma nova modalidade associada a um serviço																															
Flow of Events	<table border="1"> <thead> <tr> <th></th><th>Actor Input</th><th>System Response</th></tr> </thead> <tbody> <tr> <td>1</td><td></td><td>Apresenta lista de serviços do utilizador autenticado</td></tr> <tr> <td>2</td><td>Escolhe um serviço</td><td></td></tr> <tr> <td>3</td><td></td><td>Apresenta lista de tipologias do serviço seleccionado</td></tr> <tr> <td>4</td><td>Escolhe uma tipologia</td><td></td></tr> <tr> <td>5</td><td></td><td>Pede dados</td></tr> <tr> <td>6</td><td>Insere dados</td><td></td></tr> <tr> <td>7</td><td></td><td>Valida dados</td></tr> <tr> <td>8</td><td></td><td>Regista dados</td></tr> <tr> <td>9</td><td></td><td>Informa sucesso</td></tr> </tbody> </table>			Actor Input	System Response	1		Apresenta lista de serviços do utilizador autenticado	2	Escolhe um serviço		3		Apresenta lista de tipologias do serviço seleccionado	4	Escolhe uma tipologia		5		Pede dados	6	Insere dados		7		Valida dados	8		Regista dados	9		Informa sucesso
	Actor Input	System Response																														
1		Apresenta lista de serviços do utilizador autenticado																														
2	Escolhe um serviço																															
3		Apresenta lista de tipologias do serviço seleccionado																														
4	Escolhe uma tipologia																															
5		Pede dados																														
6	Insere dados																															
7		Valida dados																														
8		Regista dados																														
9		Informa sucesso																														
Exception	<table border="1"> <thead> <tr> <th></th><th>Actor Input</th><th>System Response</th></tr> </thead> <tbody> <tr> <td>1</td><td></td><td>Apresenta lista vazia</td></tr> </tbody> </table>			Actor Input	System Response	1		Apresenta lista vazia																								
	Actor Input	System Response																														
1		Apresenta lista vazia																														

1 - Não existem serviços deste fornecedor

Alternative	Actor Input		System Response
	1		Informa dados não validos
5a)	2		Volta ao passo 3

Figura 9 – Descrição Textual Adicionar Modalidade

2.7. Use Case Gerir Moradores

No subdiagrama do Use Case Gerir Moradores, contemplamos várias interações com o Sistema que o utilizador pode ter.

Um Morador, para aceder ao Sistema terá que estar autenticado, o que sucede automaticamente ao ser introduzido no Sistema.

Como se pode constatar, ao olhar mais atento, foram feitas algumas alterações em relação à primeira versão. A alteração mais visível foi a de suprimir Use Cases referentes às propriedades, uma vez que as incluímos (as propriedades casa, carro, etc) nas características do Morador.

O subdiagrama abaixo indicado apresenta as várias interações que o utilizador tem com o Sistema nesta gestão de moradores.

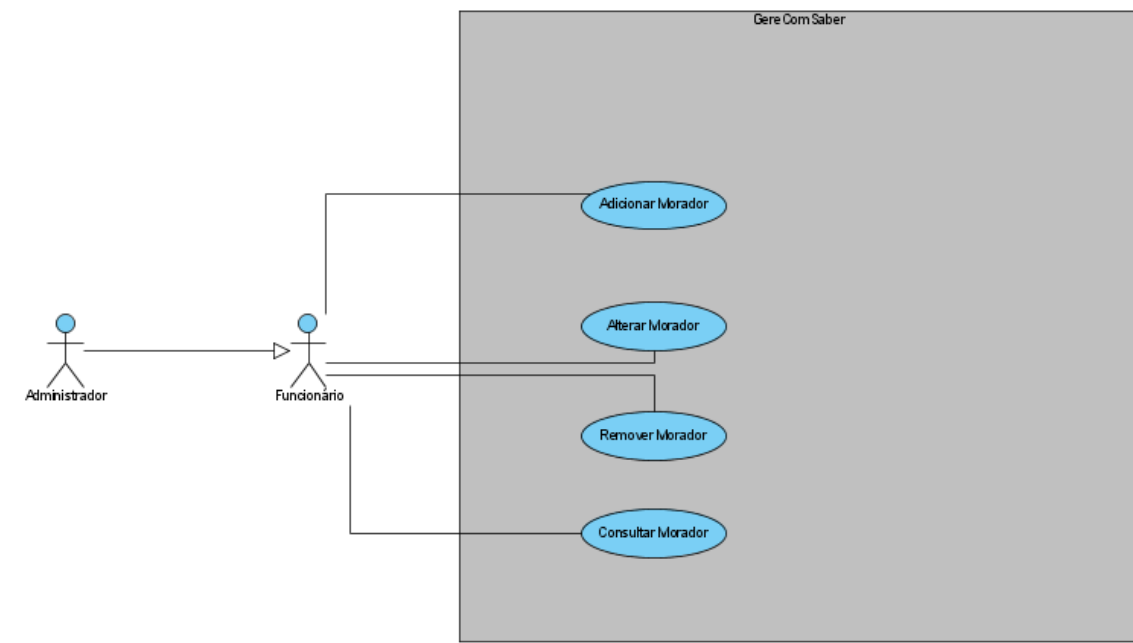


Figura 10 – Subdiagrama Gerir Moradores

Como podemos analisar, a descrição textual do Use Case Adicionar Morador segue os parâmetros habituais de todos os Use Case até agora revistos.

Main			
Super Use Case	Gerir Moradores		
Author			
Date			
Brief Description			
Preconditions	Utilizador Autenticado		
Post-conditions	Novo Morador Inserido		
Flow of Events	Actor Input		System Response
	1		Apresenta formulario

	2	Insere dados	
	3		Valida dados e pede confirmação
	4	Confirma	
	5		Regista dados
	6		Informa sucesso
Alternative 3b		Actor Input	System Response
Não Válidos	1		Volta ao passo 1.
Exception 4a		Actor Input	System Response
Não confirma	1		volta ao menu principal

Figura 11 – Descrição Textual Use Case Adicionar Morador

2.8. Use Case Gerir Fornecedores

No subdiagrama Gerir Fornecedores temos um cenário semelhante aos anteriores. Este caso particular contempla também a possibilidade de prospecção de mercado, sendo ela por iniciativa da GereComSaber ou pela recepção de propostas vindas de possíveis fornecedores. Assim sendo, o Use Case Enviar Proposta de Negócio não é informatizado, podendo essa mesma proposta enviada por email, contacto telefónico, etc. ser posteriormente aceite e introduzida no Sistema pelo Administrador.

Apresentamos de seguida o respectivo diagrama para melhor compreendermos todas as interações do utilizador no que respeita à gestão dos Fornecedores.

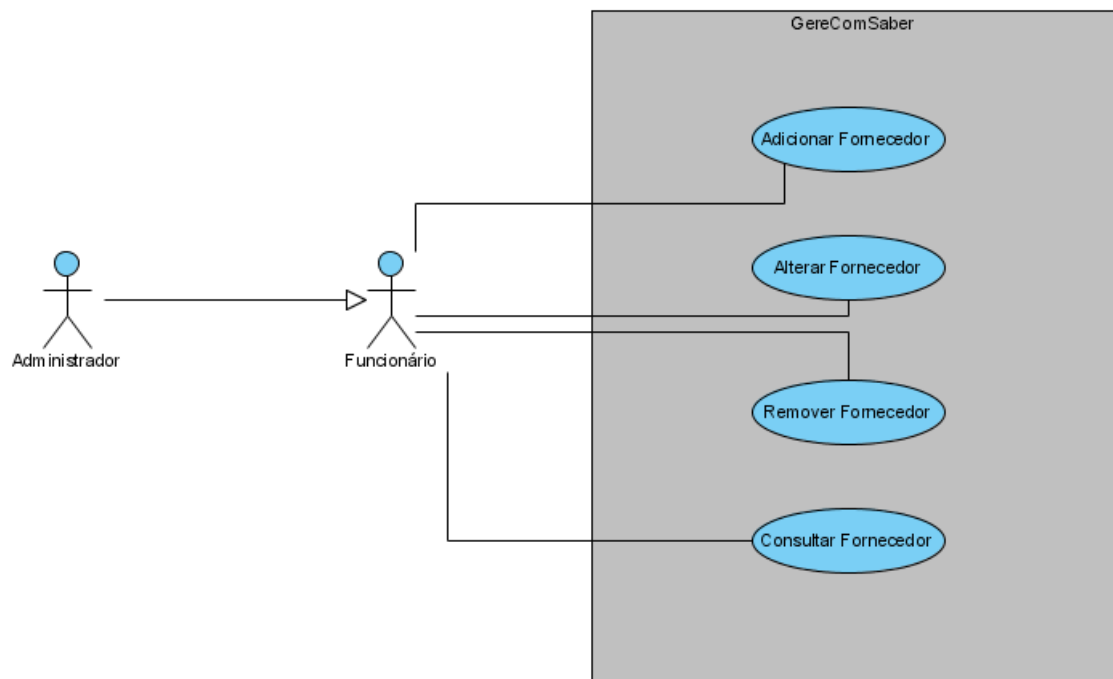


Figura 11 – Subdiagrama Gerir Fornecedores

A título de exemplo, podemos de seguida visualizar a descrição textual do Use Case Adicionar Fornecedor e lembrar que todos os diagramas e descrições adicionais se encontram em anexo.

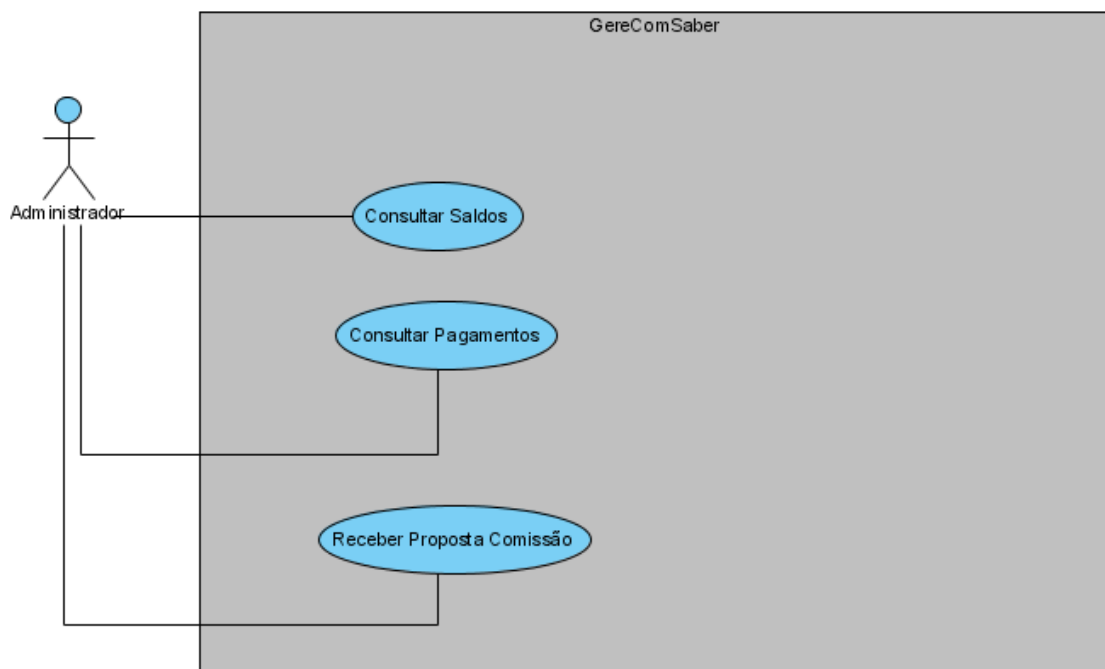
Main	
Super Use Case	Gerir Fornecedores
Author	
Date	

Brief Description			
Preconditions	Utilizador autenticado		
Post-conditions	Existe um novo fornecedor no sistema		
Flow of Events		Actor Input	System Response
	1		Pede dados
	2	Insere dados	
	3		Valida dados e pede confirmação
	4	Confirma	
	5		Regista dados
	6		Informa sucesso
Alternative 3b		Actor Input	System Response
	1		informa erro
	2		volta ao passo 1.
Exception 4a		Actor Input	System Response
	1		volta ao menu principal
Não confirma			

Figura 12 – Descrição Textual Use Case Adicionar Fornecedor

2.9. Use Case Gerir Volume de Negócios

O Use Case Gerir Volume de Negócios permite ao Administrador do Sistema consultar diversas informações relativas ao saldo e movimentos da GereComSaber, bem como os pagamentos feitos a Fornecedores e comissões cobradas. Permite também o registo de novos fornecedores mediante a aceitação da Proposta de Negócio previamente analisada.



O Use Case Receber Proposta Comissão consiste num pré-registo de um novo fornecedor. Como foi abordado anteriormente, um possível fornecedor envia a sua proposta de negócio e depois de aceite pelo Administrador é inserida no Sistema.

Super Use Case	Gerir Volume Negócios		
Author	Utilizador		
Date	23/11/2009 15:25:42		
Brief Description	Use Case que permite actualizar ficha de fornecedor nomeadamente o valor da comissão previamente estipulada.		
Preconditions	utilizador autenticado,		
Post-conditions	ficha fornecedor actualizada		
Flow of Events		Actor Input	System Response
	1		apresenta lista fornecedores
	2	seleciona fornecedor	

	3		apresenta ficha fornecedor
	4	insere valor	
	5		valida valor
	6	confirma operação	
	7		actualiza ficha fornecedor
Exception 1 6a cancela operação		Actor Input	System Response
	1		volta ao menu principal
Alternative 1 5a		Actor Input	System Response
	1		envia mensagem de erro
	2		volta ao passo 3.
	3		
Alternative 6b		Actor Input	System Response
	1		volta ao passo 3
nao confirma			

3. Diagrama de Classes e Sequência

Neste ponto, iremos apresentar o Diagrama de Classes de implementação assim como todas as decisões que consideramos relevantes para esta fase.

Abordaremos também os principais Diagramas de Sequência para podermos ter uma vista geral de como o nosso Sistema se comporta na interação com o utilizador

3.1. Diagrama de Classes

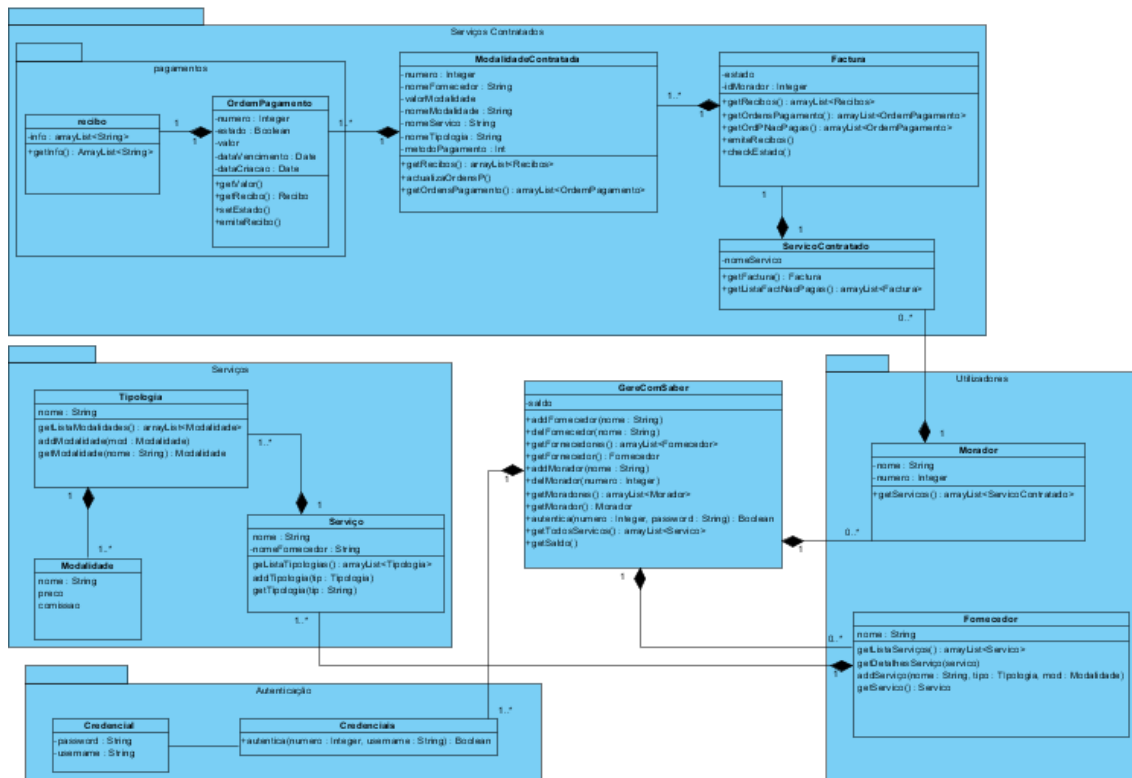
Ao analisar o Diagrama de Classes de Implementação, poderemos verificar que a ordem de raciocínio difere ligeiramente da usada no Modelo de Domínio anteriormente apresentado.

Algumas das entidades usadas no Modelo de Domínio acabaram por não se converterem em classes assim como surgiram novas classes que não estavam referenciadas no Modelo de Domínio.

Depois de desenhados os Diagramas de Sequência e de uma análise cuidada que os permitiu refinar, chegamos ao Diagrama de Classes.

As Classes possuem atributos e métodos e agregam outros objectos. Os métodos permitem-nos realizar operações sobre as classes a que pertencem e ainda operações sobre objectos por eles criados. A título de exemplo, a classe GereComSaber possui vários objectos do tipo Morador assim como métodos que permitam adicionar ou remover moradores; A classe Morador possui vários objectos do tipo ServicoContratado e métodos que operam sobre eles. As restantes classes seguem este tipo de estrutura.

Podemos de seguida analisar o Diagrama de Classes de Implementação:



3.2. Diagramas de Sequência

Como nos foi proposto para cada Use Case, dividimos o desenvolvimento de cada diagrama de Sequência em cinco fases:

- Construção do Diagrama de Sistema – onde estão representados o Actor e o Sistema com o qual interage;
- Identificação de Subsistemas – divisão do sistema em vários subsistemas.
- Construção do Diagrama de Sequência com os subsistemas que foram encontrados
- Identificação das classes de cada Subsistema (com os atributos e respectivas responsabilidades)
- Elaboração do Diagrama de Sequência de Implementação, onde estão referidas as classes e respectivos métodos e onde o programador se apoia para desenvolver a aplicação.

Devido à extensão e quantidade de diagramas desenvolvidos nesta fase do projecto, decidimos de forma a evitar duplicação de informação, centrar a visualização dos mesmos na documentação gerada pelo VP em anexo, onde estão incluídos os Diagramas de Sequência.

4. Conclusões e Trabalho Futuro

Na fase anterior, já estavam definidas as entidades intervenientes no Sistema e iniciou-se a modelação com os diagramas de Use Case.

Nesta fase, e com os requisitos recolhidos pudemos modelar o Diagrama de Classes e os Diagramas de Sequência e passamos a ter uma perspectiva mais pormenorizada de como o nosso Sistema interage com o utilizador.

Consideramos já ter elementos suficientes para avançar para a próxima fase e iniciar a implementação do Sistema GereComSaber.

Anexos

Conforme solicitado pelo docente, neste anexo encontra-se toda a documentação gerada pelo Visual Paradigm. De salientar que possui todos os diagramas e descrições propostas.

I. Anexo 1

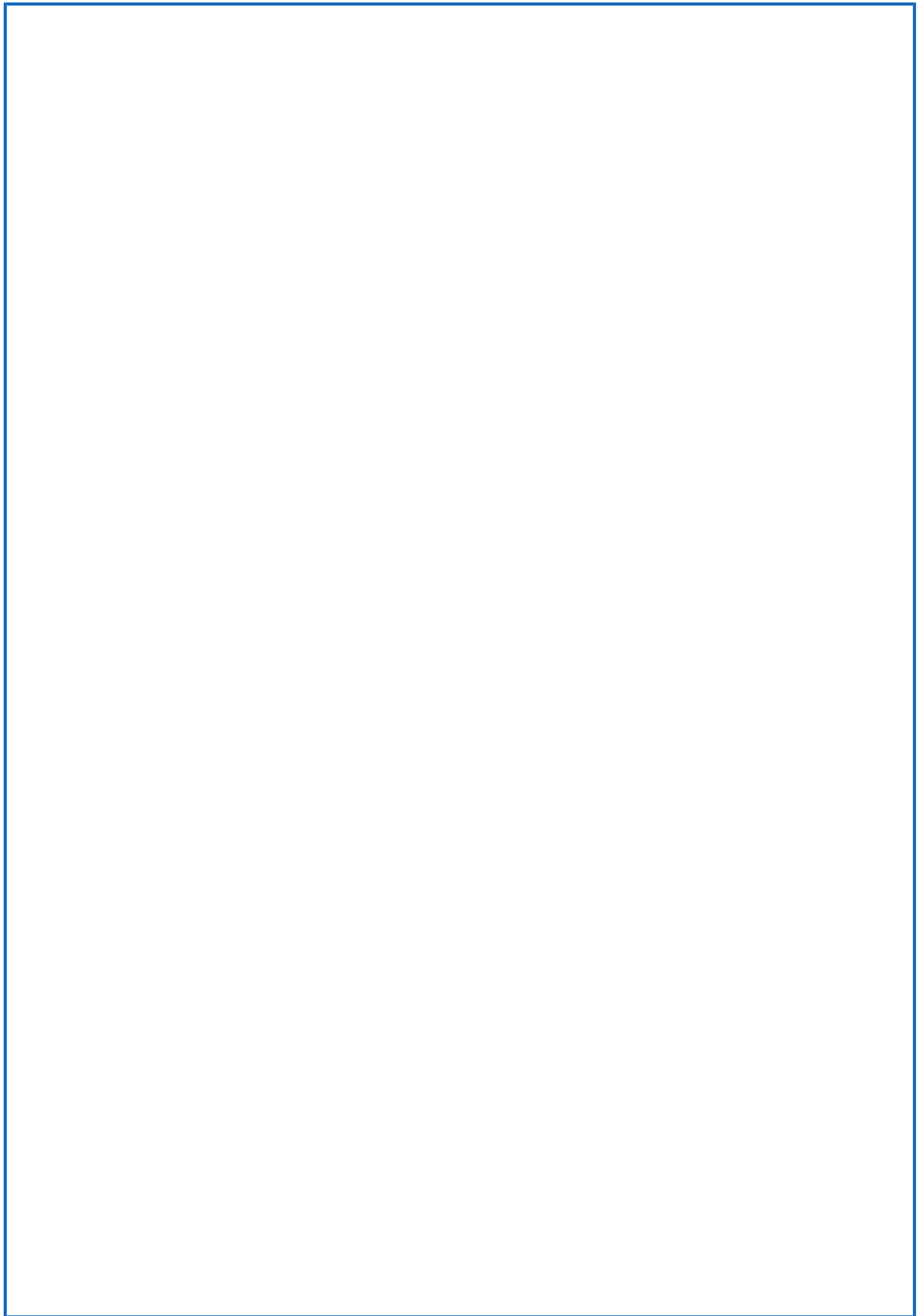


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Consultar recibos passo 1	290
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Requisitar Serviço passo3	389
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Adicionar Serviço - Passo3 - Diagrama de Sequencia com subsistemas	498
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Alterar Fornecedor passo3	568
Alterar Modalidade passo1	575
Alterar Modalidade passo2	583
Alterar Modalidade passo3	592
Alterar Morador passo1	602
Alterar Morador passo2	609
Alterar Morador passo3	616
Alterar Serviço passo1	623
Alterar Serviço passo2	629
Alterar Serviço passo3	636
Alterar Tipologia passo1	642
Alterar Tipologia passo2	649
Alterar Tipologia passo3	657
Cancela operação	665
Consulta Fornecedor passo2	667
Consultar Fornecedor passo1	672
Consultar Fornecedor passo3	675
Consultar Morador passo1	679
Consultar Morador passo2	682
Consultar Morador passo3	687
Consultar Saldos passo1	692
Consultar Saldos passo2	696
Consultar Saldos passo3	702
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Consultar Serviços e Fornecedores passo3	743
Encerrar Sessão	753
FalhaNoLogin	755
Iniciar Sessão	757
Remover Fornecedor passo1	765
Remover Fornecedor passo2	770
Remover Fornecedor passo3	774
Remover Morador passo1	779
Remover Morador passo2	784
Remover Morador passo3	788
Remover Serviço passo1	792
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Remover Morador passo2	784
Remover Morador passo3	788
Remover Serviço passo1	792
Remover Serviço passo2	798
Remover Serviço passo3	803
Remover Tipologia passo1	808
Remover Tipologia passo2	814
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Use Case Scheduling

Rank	Use Case Name	Justification
Unspecified	Gerir Moradores	
Unspecified	Gerir Fornecedores	
Unspecified	Consultar Serviços e Fornecedores	
Unspecified	Gerir Volume Negócios	
Unspecified	Enviar Proposta de Negócio	
Unspecified	Iniciar Sessão	
Unspecified	Encerrar Sessão	
Unspecified	Adicionar Morador	
Unspecified	Alterar Morador	
Unspecified	Remover Morador	
Unspecified	Consultar Morador	
Unspecified	Adicionar Fornecedor	
Unspecified	Alterar Fornecedor	
Unspecified	Remover Fornecedor	
Unspecified	Consultar Fornecedor	
Unspecified	Consultar Saldos	
Unspecified	Consultar Pagamentos	
Unspecified	Receber Proposta Comissão	
Unspecified	Gerir Serviços	
Unspecified	Adicionar Tipologia	
Unspecified	Alterar Tipologia	
Unspecified	Remover Tipologia	
Unspecified	Adicionar Serviço	
Unspecified	Alterar Serviço	
Unspecified	Remover Serviço	
Unspecified	Remover Modalidade	
Unspecified	Gerir Fornecedor2	
Unspecified	Alterar Modalidade	
Unspecified	Adicionar Modalidade	
Unspecified	Login2	
Unspecified	Consultar Serviço	
Unspecified	Logout2	
Unspecified	Requisitar Serviço	
Unspecified	Actualizar Serviços Contratados	
Unspecified	Consultar Serviços	
Unspecified	Gerir Pagamentos	
Unspecified	Adicionar Modalidade	
Unspecified	Gerar Estorno	

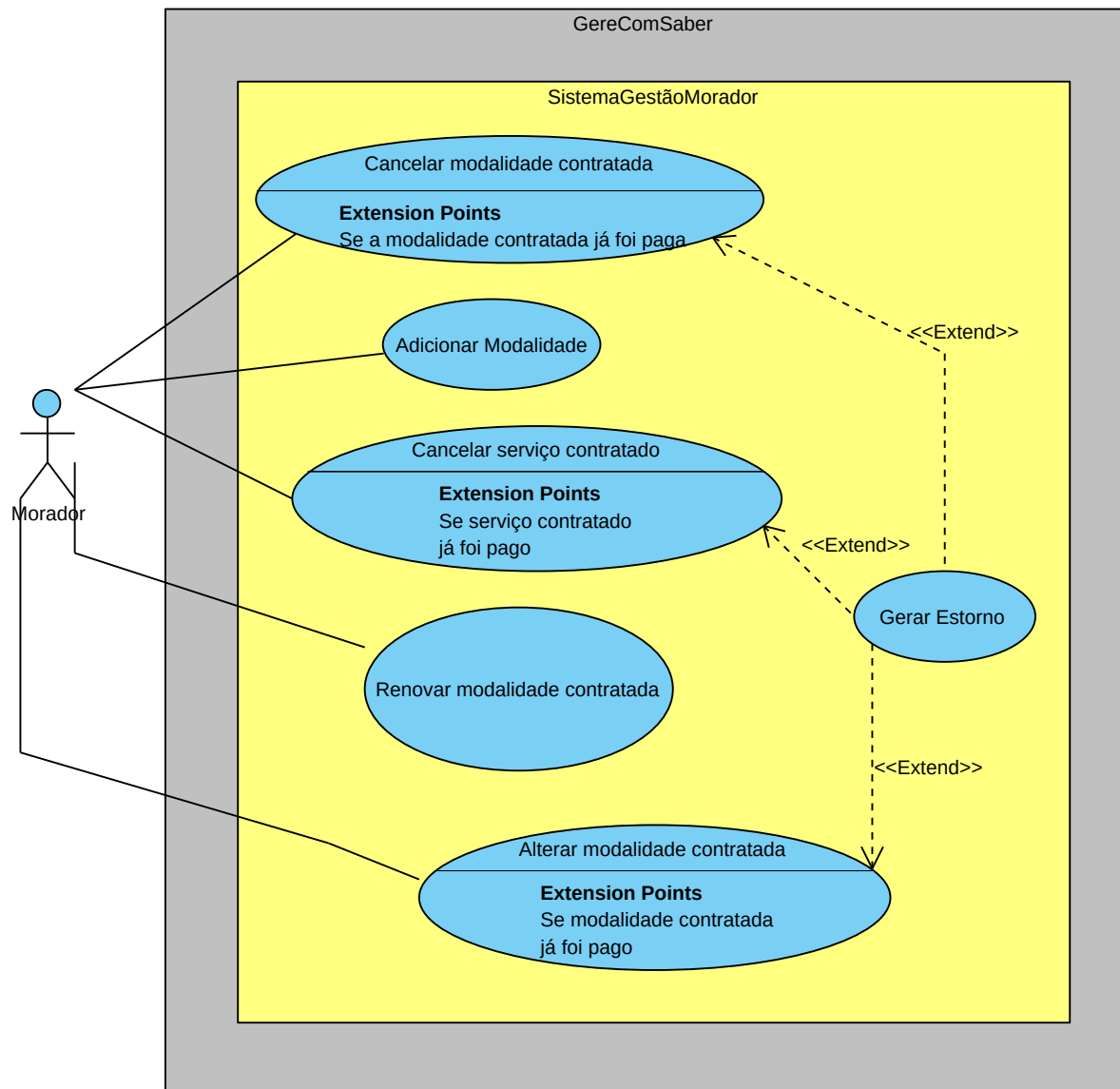
Unspecified	Cancelar modalidade contratada	
Unspecified	Cancelar serviço contratado	
Unspecified	Renovar modalidade contratada	
Unspecified	Alterar modalidade contratada	
Unspecified	Consultar serviços contratados	
Unspecified	Consultar serviços disponíveis	
Unspecified	Gerar dados de pagamento	
Unspecified	Consultar factura	
Unspecified	Emitir recibo de pagamento	
Unspecified	Consultar recibos	
Unspecified	Consultar facturas	
Unspecified	Pagar Facturas	
Unspecified	Gerir Serviços	
Unspecified	Alterar Morador	
Unspecified	Encerrar Sessão	
Unspecified	Iniciar Sessão	
Unspecified	Remover Morador	

Stereotypes

Extend

Use Case Diagram

Atualizar Serviços Contratados



Summary

Name	Documentation
 Morador	
 Alterar modalidade contratada	
 Cancelar serviço contratado	
 Renovar modalidade contratada	
 Cancelar modalidade contratada	
 Adicionar Modalidade	

 SistemaGestãoMorador	
 Gerar Estorno	
 GereComSaber	

Details



Morador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Business Model	false

Relationships

Unnamed Association		
To	Name	Value
	End Model Element	 Alterar modalidade contratada
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Cancelar serviço contratado
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Renovar modalidade contratada
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Cancelar modalidade contratada
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Adicionar Modalidade
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Alterar modalidade contratada

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Extension Points

Se modalidade contratada já foi pago

Relationships

Unnamed Extend	
To	 Gerar Estorno
Visibility	Unspecified
Stereotypes	Extend
Extension Point	Se modalidade contratada já foi pago

Unnamed Association		
From	Name	Value
	End Model Element	 Morador
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Main	
Super Use Case	Atualizar serviços contratados
Author	Bruno
Date	22/Nov/2009 18:22:34
Brief Description	Morador altera uma modalidade contratada

Preconditions	Morador autenticado; Morador tem de possuir a modalidade que pretende alterar; O fornecedor de serviços tem de possuir a modalidade que vai ser alterada.		
Post-conditions	Serviço alterado com sucesso		
Flow of Events		Actor Input	System Response
	1		Apresenta a lista de modalidades contratadas
	2	Escolhe modalidade a alterar	
	3		Apresenta as respectivas características
	4	Escolhe as características que pretender alterar	
	5		Pede Confirmação
	6	Confirma alteração	
	7		<<extend>> Gerar Estorno
	8		Valida alteração
	9		Recalcular ordens de pagamento
	10		Modalidade alterada
	11		Recalcular ordens de pagamento
Alternative 1 6a - Morador decide não alterar a modalidade		Actor Input	System Response
	1		Volta ao passo 1
Alternative 2 7a - O serviço já não existe		Actor Input	System Response
	1		Volta ao passo 1

Sub Diagrams

Name	Documentation
 Alterar modalidade contratada - DS Sistema - passo1	

Cancelar serviço contratado

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Extension Points

Se serviço contratado já foi pago

Relationships

Unnamed Extend	
To	 Gerar Estorno
Visibility	Unspecified
Stereotypes	Extend
Extension Point	Se serviço contratado já foi pago

Unnamed Association		
From	Name	Value
	End Model Element	 Morador
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Main			
Super Use Case	Atualizar serviços contratados		
Author	Bruno		
Date	22/Nov/2009 17:27:12		
Brief Description	Morador cancela um serviço previamente contratado		
Preconditions	Morador autenticado; Morador tem de possuir o serviço que pretende cancelar		
Post-conditions	Serviço cancelado com sucesso; Morador passa a possuir um número total de serviços contratados - 1		
Flow of Events		Actor Input	System Response
	1		Apresenta a lista de serviços contratados
	2	Escolhe serviço a cancelar	
	3		Apresenta as respectivas características
	4	Cancela serviço	
	5		Pede Confirmação

	6	Confirma cancelamento	
	7		<<extend>> Gerar Estorno
	8		Valida cancelamento
	9		Recalcula ordens de pagamento
	10		Servico cancelado
Alternative 6a - Morador decide não cancelar serviço		Actor Input	System Response
	1		Volta ao passo 1

Sub Diagrams

Name	Documentation
 Cancelar serviço contratado - DS Sistema - passo1	

Renovar modalidade contratada

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Morador
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Main

Super Use Case	Atualizar serviços contratados		
Author	Bruno		
Date	22/Nov/2009 18:00:49		
Brief Description	Morador faz a renovação de uma modalidade contratada		
Preconditions	Morador autenticado; Morador tem de possuir a modalidade que pretende renovar; O fornecedor de serviços tem de possuir a modalidade que vai ser renovada.		
Post-conditions	Modalidade renovada com sucesso.		
Flow of Events		Actor Input	System Response
	1		Apresenta a lista de modalidades contratadas
	2	Escolhe modalidade a renovar	
	3		Apresenta as respectivas características
	4	Escolhe por quanto tempo quer renovar a modalidade	
	5		Pede Confirmação
	6	Confirma renovação	
	7		Valida renovação
	8		Recalcula ordens de pagamento
	9		Modalidade renovada
Alternative 1 6a - Morador decide não renovar modalidade		Actor Input	System Response
	1		Volta ao passo 1
Alternative 2 7a - O serviço já não existe		Actor Input	System Response
	1		Volta ao passo 1

Sub Diagrams

Name	Documentation
 Renovar modalidade contratada - DS Sistema - passo1	

Cancelar modalidade contratada

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Extension Points

Se a modalidade contratada já foi paga

Relationships

Unnamed Extend	
To	 Gerar Estorno
Visibility	Unspecified
Stereotypes	Extend
Extension Point	Se a modalidade contratada já foi paga

Unnamed Association		
From	Name	Value
	End Model Element	 Morador
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Main			
Super Use Case			
Author	Bruno		
Date	17/Dez/2009 19:05:55		
Brief Description	Morador cancela uma modalidade previamente contratada		
Preconditions	Morador autenticado; Morador tem de possuir a modalidade que pretende cancelar		
Post-conditions	Modalidade cancelada com sucesso; Morador passa a possuir um número total de modalidades contratadas - 1		
Flow of Events		Actor Input	System Response
	1		Apresenta a lista de modalidades contratadas
	2	Escolhe modalidade a cancelar	
	3		Apresenta as respectivas características
	4	Cancela modalidade	
	5		Pede confirmação

	6	Confirma cancelamento	
	7		<<extend>> Gerar Estorno
	8		Valida cancelamento
	9		Recalcula ordens de pagamento
	10		Modalidade cancelada
Alternative 6a - Morador decide não cancelar modalidade		Actor Input	System Response
	1		Volta ao passo 1

Sub Diagrams

Name	Documentation
 Cancelar modalidade contratada - DS Sistema - passo1	

Adicionar Modalidade

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Morador
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Main			
Super Use Case			
Author	Bruno		
Date	17/Dez/2009 21:39:23		
Brief Description	Morador adiciona uma modalidade ao serviço que contratou		
Preconditions	Morador autenticado; Morador não possui a modalidade que pretende adicionar ao serviço que contratou; O fornecedor de serviços tem de possuir a modalidade que vai ser adicionada		
Post-conditions	Modalidade adicionada com sucesso		
Flow of Events		Actor Input	System Response
	1		Apresenta a lista de serviços contratados
	2	Escolhe o serviço contratado	
	3		Apresenta a lista de tipologias do serviço
	4	Escolhe a tipologia	
	5		Apresenta a lista de modalidades contratadas
	6	Escolhe a modalidade que quer adicionar	
	7	Adiciona modalidade	
	8		Pede confirmação
	9	Confirma adição	
	10		Valida adição
	11		Calcula ordens de pagamento
	12		Modalidade adicionada
Alternative 9a - Morador decide não adicionar a modalidade		Actor Input	System Response
	1		Volta ao passo 1

Sub Diagrams

Name	Documentation
 Adicionar modalidade - DS Sistema - passo1	



SistemaGestãoMorador

Name	Value
Abstract	false
Leaf	false
Root	false

Children

Name	Documentation
 Cancelar serviço contratado	
 Renovar modalidade contratada	
 Alterar modalidade contratada	

Gerar Estorno

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Extend	
From	 Cancelar serviço contratado
Visibility	Unspecified
Stereotypes	Extend
Extension Point	Se serviço contratado já foi pago

Unnamed Extend	
From	 Alterar modalidade contratada
Visibility	Unspecified
Stereotypes	Extend
Extension Point	Se modalidade contratada já foi pago

Unnamed Extend	
From	 Cancelar modalidade contratada
Visibility	Unspecified
Stereotypes	Extend
Extension Point	Se a modalidade contratada já foi paga

Use Case Descriptions

Description1		
Super Use Case		
Author	Christophe	
Date	1/Dez/2009 14:03:21	
Brief Description	Permite ao sistema calcular e adicionar um estorno a devolver a um morador	
Preconditions		
Post-conditions	Foi adicionado um estorno ao saldo do morador	
Flow of Events		
	Actor Input	System Response
	1	Calcula estorno
	2	Adiciona estorno ao saldo do morador

Sub Diagrams

Name	Documentation
 Gerar Estorno - DS Sistema - passo01	

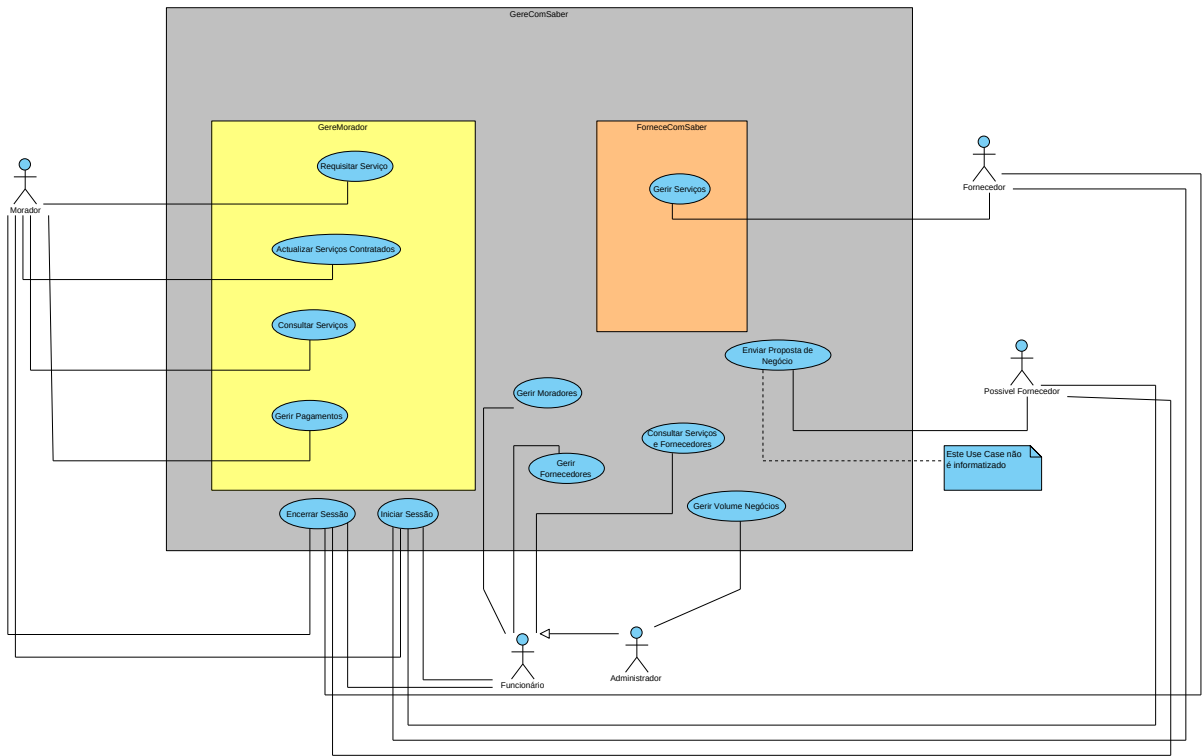


GereComSaber

Name	Value
Abstract	false
Leaf	false
Root	false

Use Case Diagram

GereComSaber



Summary

Name	Documentation
Morador	
Requisitar Serviço	
Atualizar Serviços Contratados	
Consultar Serviços	
Gerir Pagamentos	
Encerrar Sessão	
Iniciar Sessão	
Fornecedor	
Gerir Serviços	
Funcionário	
Gerir Moradores	
Gerir Fornecedores	
Consultar Serviços e Fornecedores	
Administrador	
Gerir Volume Negócios	
Possível Fornecedor	

 Enviar Proposta de Negócio	
 N/A	Este Use Case não é informatizado
 GereComSaber	
 ForneceComSaber	
 GereMorador	

Details



Morador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Business Model	false

Relationships

Unnamed Association		
To	Name	Value
	End Model Element	 Requisitar Serviço
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Atualizar Serviços Contratados
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Consultar Serviços
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Gerir Pagamentos
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Encerrar Sessão
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Iniciar Sessão
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Requisitar Serviço

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Morador
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Description1			
Super Use Case			
Author	Christophe		
Date	1/Dez/2009 11:52:39		
Brief Description	Permite ao morador contratar uma modalidade de um serviço		
Preconditions	Utilizador autenticado como Morador		
Post-conditions	Uma propriedade fica com mais uma modalidade contratada		
Flow of Events		Actor Input	System Response
	1		Apresenta lista de serviços
	2	Escolhe um serviço	
	3		Apresenta lista de tipologias do serviço seleccionado
	4	Escolhe uma tipologia	
	5		Apresenta lista de modalidades da tipologia escolhida
	6	Escolhe uma modalidade	
	7		Pede por quanto tempo esta modalidade é contratada
	8	Insere tempo	
	9		Apresenta lista com formas de pagamento
	10	Escolhe forma de pagamento	

	11		Apresenta todos os dados escolhidos da requisição
	12		Pede confirmação
	13	Confirma	
	14		Valida dados
	15		Regista requisição
	16		Gera ordens de pagamento
	17		Informa sucesso
Exception 1 - Não existem serviços no sistema		Actor Input	System Response
	1		Apresenta lista vazia
Alternative 12a)		Actor Input	System Response
	1	Não confirma	
	2		Volta ao passo 11

Actualizar Serviços Contratados

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Morador
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Description1			
Super Use Case			
Author	Christophe		
Date	1/Dez/2009 11:53:19		
Brief Description			
Preconditions			
Post-conditions			
Flow of Events		Actor Input	System Response
	1		

Sub Diagrams

Name	Documentation
 Atualizar Serviços Contratados	

Consultar Serviços

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Morador
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Main		
Super Use Case		
Author	Utilizador	
Date	23/11/2009 19:19:46	
Brief Description	Use Case que permite consultar todos os serviços requisitados	
Preconditions	Utilizador autenticado, utilizador com pelo menos 1 serviço requisitado	
Post-conditions		
Flow of Events		Actor Input
	1	System Response
		Apresenta lista de serviços

Sub Diagrams

Name	Documentation
 Consultar Serviços	

Gerir Pagamentos

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Morador
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Sub Diagrams

Name	Documentation
 Gerir Pagamentos	

Encerrar Sessão

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Morador
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
From	Name	Value
	End Model Element	 Funcionário
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
From	Name	Value
	End Model Element	 Fornecedor
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
From	Name	Value
	End Model Element	 Possivel Fornecedor
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Description1			
Super Use Case			
Author	Christophe		
Date	1/Dez/2009 11:55:16		
Brief Description	Permite ao utilizador desligar-se do sistema		
Preconditions	Utilizador autenticado no sistema		
Post-conditions	Utilizador deixa de ter permissões para actuar no sistema		
Flow of Events		Actor Input	System Response
	1		Desliga utilizador do sistema

Iniciar Sessão

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Morador
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
From	Name	Value
	End Model Element	 Funcionário
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
From	Name	Value
	End Model Element	 Fornecedor
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
From	Name	Value
	End Model Element	 Possivel Fornecedor
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Description1	
Super Use Case	
Author	Christophe
Date	1/Dez/2009 11:55:24
Brief Description	Permite ao fornecedor autenticar-se no sistema

Preconditions			
Post-conditions	Utilizador fica autenticado com um determinado papel		
Flow of Events		Actor Input	System Response
	1		Pede login e password
	2	Insere login e password	
	3		Verifica credenciais
	4		Autentica utilizador
	5		Informa sucesso
Alternative 4) Credenciais invalidas		Actor Input	System Response
	1		Informa utilizador
	2		Volta ao passo 1
Exception 1 tentativas excedidas		Actor Input	System Response
	1		cancela operação



Fornecedor

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Business Model	false

Relationships

Unnamed Association		
To	Name	Value
	End Model Element	Gerir Serviços
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Encerrar Sessão
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Iniciar Sessão
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Gerir Serviços

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Fornecedor
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Description1			
Super Use Case			
Author	Christophe		
Date	1/Dez/2009 16:02:46		
Brief Description			
Preconditions			
Post-conditions			
Flow of Events		Actor Input	System Response
	1		

Sub Diagrams

Name	Documentation
 Gerir Serviços	

Funcionário

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Business Model	false

Relationships

Unnamed Generalization	
To	 Administrador
Substitutable	false
Visibility	Unspecified

Unnamed Association		
To	Name	Value
	End Model Element	 Gerir Moradores
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Gerir Fornecedores
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Consultar Serviços e Fornecedores
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Iniciar Sessão
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Encerrar Sessão
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Gerir Moradores

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Funcionário
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Main	
Super Use Case	
Author	Utilizador
Date	23/11/2009 15:34:54
Brief Description	
Preconditions	utilizador autenticado
Post-conditions	utilizador criado

Flow of Events		Actor Input	System Response
	1		apresenta formulario
	2	preenche formulario	
	3		valida formulario
	4	confirma operação	
	5		cria utilizador
	6		volta ao menu principal
	7		
Alternative 1 4a nao confirma		Actor Input	System Response
	1		volta ao passo 1
Exception 1 4b cancela operação		Actor Input	System Response
	1		volta ao menu principal

Sub Diagrams

Name	Documentation
 Gerir Moradores	

Gerir Fornecedores

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Funcionário
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Main			
Super Use Case			
Author	Utilizador		
Date	23/11/2009 17:04:20		
Brief Description			
Preconditions			
Post-conditions			
Flow of Events		Actor Input	System Response
	1		

Sub Diagrams

Name	Documentation
 Gerir Fornecedores	

Consultar Serviços e Fornecedores

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Funcionário
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Main			
Super Use Case			
Author	Utilizador		
Date	25/11/2009 14:13:10		
Brief Description	Use Case que permite consultar todos os serviços e respectivos Fornecedores actuais no Sistema		
Preconditions	utilizador autenticado		
Post-conditions			
Flow of Events		Actor Input	System Response
	1		Apresenta lista de serviços
	2	Selecciona Serviço	
	3		Apresenta detalhes do item escolhido
Exception 1 - Não existem serviços		Actor Input	System Response
	1		Abandona operação



Administrador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Business Model	false

Relationships

Unnamed Association		
To	Name	Value
	End Model Element	Gerir Volume Negócios
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Generalization	
From	Funcionário
Substitutable	false
Visibility	Unspecified



Gerir Volume Negócios

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Administrador
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Sub Diagrams

Name	Documentation
 Gerir Volume Negócios	

Possível Fornecedor

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Business Model	false

Relationships

Unnamed Association		
To	Name	Value
	End Model Element	 Encerrar Sessão
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Iniciar Sessão
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
From	Name	Value
	End Model Element	 Enviar Proposta de Negócio
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Enviar Proposta de Negócio

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Anchor	
To	 N/A

Unnamed Association		
To	Name	Value
	End Model Element	 Possivel Fornecedor
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Description1			
Super Use Case			
Author	Christophe		
Date	1/Dez/2009 13:33:56		
Brief Description			
Preconditions			
Post-conditions			
Flow of Events		Actor Input	System Response
	1		

N/A

Name	Value
Documentation	Este Use Case não é informatizado

Relationships

Unnamed Anchor	
From	 Enviar Proposta de Negócio

GereComSaber

Name	Value
Abstract	false
Leaf	false
Root	false

Children

Name	Documentation
 Gerir Moradores	
 Gerir Fornecedores	
 Consultar Serviços e Fornecedores	
 Gerir Volume Negócios	
 Enviar Proposta de Negócio	
 Iniciar Sessão	
 Encerrar Sessão	

ForneceComSaber

Name	Value
Abstract	false
Leaf	false
Root	false

Children

Name	Documentation
 Gerir Serviços	

GereMorador

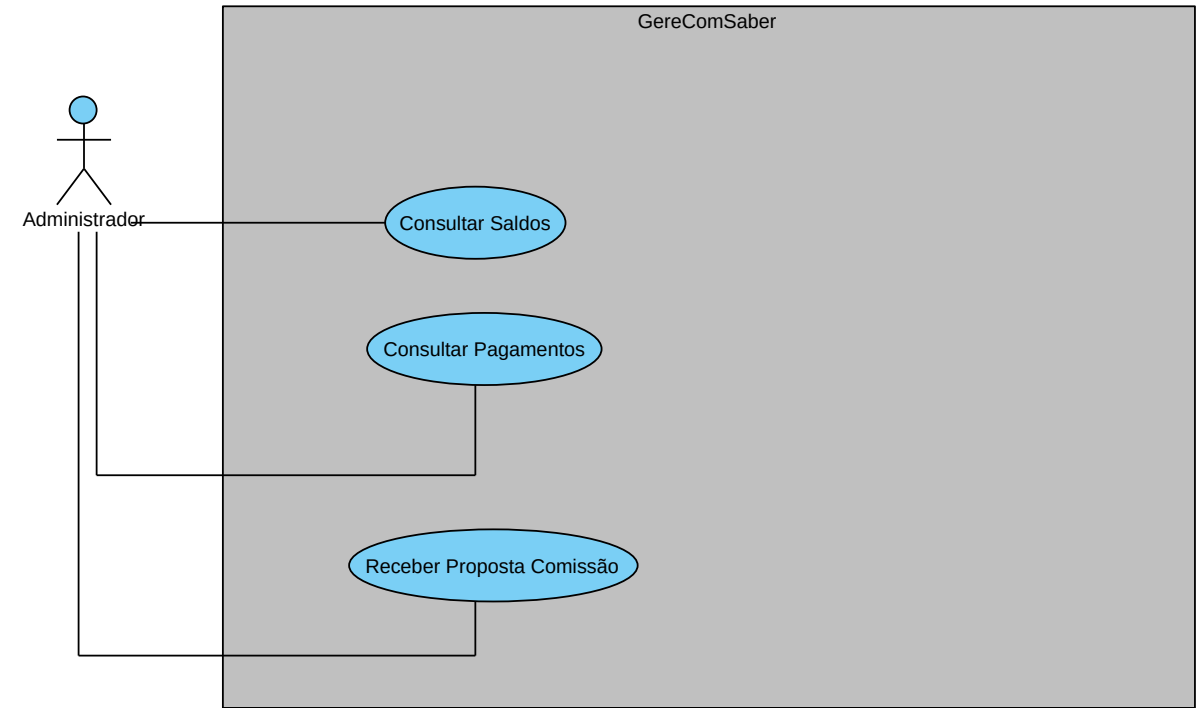
Name	Value
Abstract	false
Leaf	false
Root	false

Children

Name	Documentation
 Requisitar Serviço	
 Atualizar Serviços Contratados	
 Consultar Serviços	
 Gerir Pagamentos	

Use Case Diagram

Gerir Volume Negócios



Summary

Name	Documentation
 Administrador	
 Consultar Saldos	
 Consultar Pagamentos	
 Receber Proposta Comissão	
 GereComSaber	

Details

Administrador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Business Model	false

Relationships

Unnamed Association		
To	Name	Value
	End Model Element	 Consultar Saldos
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Consultar Pagamentos
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Receber Proposta Comissão
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Consultar Saldos

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Administrador
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Main			
Super Use Case	Gerir Volume Negócios		
Author	Utilizador		
Date	23/11/2009 16:54:42		
Brief Description	Use Case que permite visualizar os saldos da GereComSaber		
Preconditions	utilizador autenticado		
Post-conditions			
Flow of Events		Actor Input	System Response
	1		Apresenta lista relatorios
	2	Selecciona relatorio	
	3		Apresenta relatorio seleccionado

Consultar Pagamentos

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Administrador
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Main			
Super Use Case	Gerir Volume Negócios		
Author	Utilizador		
Date	23/11/2009 16:44:10		
Brief Description	Use Case que permite a consulta das transaccoes entre a gereComSaber, os Clientes e os Fornecedores		
Preconditions	utilizador autenticado, perfil seleccionado(cliente ou fornecedor ou GereComSaber)		
Post-conditions			
Flow of Events		Actor Input	System Response
	1		apresenta lista de ordens de pagamento executadas
	2	escolher uma ordem de pagamento	
	3		apresenta detalhes da ordem seleccionada

Receber Proposta Comissão

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Administrador
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Main	
Super Use Case	Gerir Volume Negócios
Author	Utilizador
Date	23/11/2009 15:25:42
Brief Description	Use Case que permite actualizar ficha de fornecedor nomeadamente o valor da comissão previamente estipulada.
Preconditions	utilizador autenticado,
Post-conditions	ficha fornecedor actualizada

Flow of Events		Actor Input	System Response
	1		apresenta lista fornecedores
	2	seleciona fornecedor	
	3		apresenta ficha fornecedor
	4	insere valor	
	5		valida valor
	6	confirma operação	
	7		actualiza ficha fornecedor
Exception 1 6a cancela operação		Actor Input	System Response
	1		volta ao menu principal
Alternative 1 5a		Actor Input	System Response
	1		envia mensagem de erro
	2		volta ao passo 3.
	3		
Alternative 6b nao confirma		Actor Input	System Response
	1		volta ao passo 3



GereComSaber

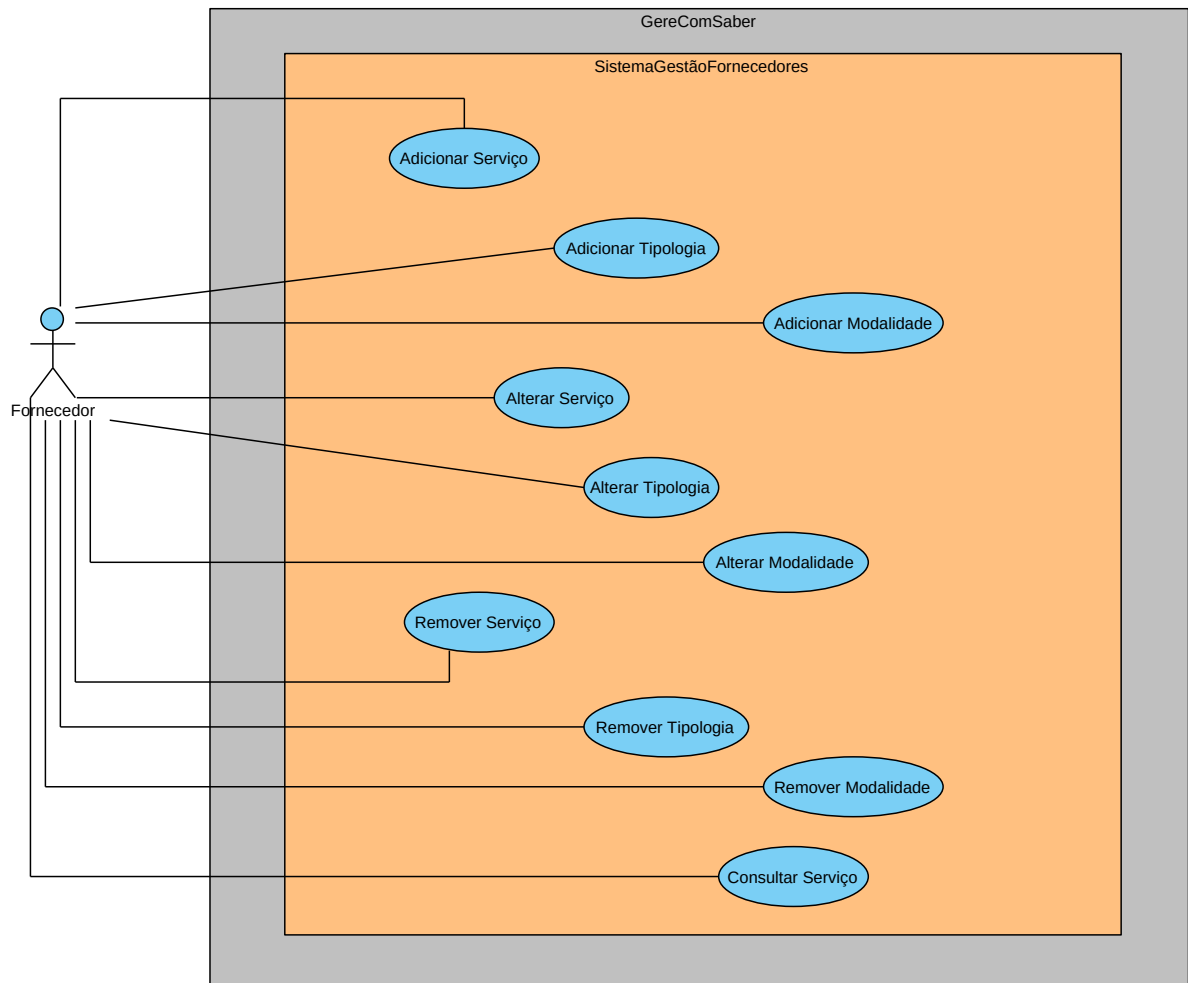
Name	Value
Abstract	false
Leaf	false
Root	false

Children

Name	Documentation
 Consultar Saldos	
 Consultar Pagamentos	
 Receber Proposta Comissão	

Use Case Diagram

Gerir Serviços



Summary

Name	Documentation
 Fornecedor	
 Consultar Serviço	
 Remover Modalidade	
 Alterar Serviço	
 Remover Serviço	
 Adicionar Serviço	
 Adicionar Modalidade	
 Alterar Modalidade	
 Adicionar Tipologia	
 Alterar Tipologia	
 Remover Tipologia	

 SistemaGestãoFornecedores	
 GereComSaber	

Details



Fornecedor

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Business Model	false

Relationships

Unnamed Association		
To	Name	Value
	End Model Element	 Consultar Serviço
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Remover Modalidade
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Alterar Serviço
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Remover Serviço
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Adicionar Serviço
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Adicionar Modalidade
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Alterar Modalidade
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
From	Name	Value
	End Model Element	 Adicionar Tipologia
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
From	Name	Value
	End Model Element	 Alterar Tipologia
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
From	Name	Value
	End Model Element	 Remover Tipologia
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Consultar Serviço

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Fornecedor
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Main			
Super Use Case			
Author			
Date			
Brief Description	Permite ao fornecedor consultar os detalhe de um dos seus serviços		
Preconditions	Estar autenticado como Fornecedor		
Post-conditions			
Flow of Events		Actor Input	System Response
	1		Apresenta lista de serviços
	2	Escolhe um serviço	
	3		Apresenta tabela de serviços com respectivas tipologias e modalidades do serviço seleccionado
Exception 1 - Não existem serviços deste fornecedor		Actor Input	System Response
	1		Apresenta lista vazia

Remover Modalidade

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Fornecedor
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Main			
Super Use Case			
Author			
Date			
Brief Description	Permite ao fornecedor remover uma das modalidades de uma das suas tipologias		
Preconditions	Estar autenticado como Fornecedor;		
Post-conditions	Foi removida uma modalidade ao serviço seleccionado		
Flow of Events		Actor Input	System Response
	1		Apresenta lista de serviços
	2	Escolhe um serviço	
	3		Apresenta lista de tipologias do serviço seleccionado
	4	Escolhe uma tipologia	

	5		Apresenta lista de modalidades associadas ao serviço
	6	Escolhe uma modalidade	
	7		Pede confirmação para remover a modalidade selecionada
	8	Confirma remoção	
	9		Remove modalidade
	10		Informa sucesso
Alternative 2 8a)		Actor Input	System Response
	1	Não confirma remoção	
	2		Volta para passo 5
Exception 1 - Não existem serviços deste fornecedor		Actor Input	System Response
	1		Apresenta lista vazia

Alterar Serviço

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Fornecedor
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Description1			
Super Use Case			
Author			
Date			
Brief Description	Permite ao fornecedor actualizar um dos seus serviços		
Preconditions	Utilizador autenticado como Fornecedor,		
Post-conditions	Dados do Serviço alterados no sistema		
Flow of Events		Actor Input	System Response
	1		Apresenta lista de Serviços
	2	Escolhe um serviço	
	3		Apresenta dados actuais
	4	Insere novos dados	
	5		Valida dados
	6		Regista dados
	7		Informa sucesso
Exception 1 - Não existem serviços deste fornecedor		Actor Input	System Response
	1		Notifica utilizador
	2		Cancela operação
Alternative 5a)		Actor Input	System Response
	1		Informa dados não validos
	2		Volta ao passo 3

Remover Serviço

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Fornecedor
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Main			
Super Use Case			
Author			
Date			
Brief Description	Permite ao fornecedor remover um dos seus serviços		
Preconditions	Estar autenticado como Fornecedor		
Post-conditions	Passa a existir menos um serviço e respectivas tipologias e modalidades associadas		
Flow of Events		Actor Input	System Response
	1		Apresenta lista de serviços
	2	Escolhe um serviço	
	3		Pede confirmação para remover
	4	Confirma a remoção	
	5		Remove o serviço e respectivas tipologias e modalidades
	6		Informa sucesso
Alternative 1 4a)		Actor Input	System Response
	1	Não confirma a remoção	
	2		Volta ao passo 1
Exception 1 - Não existem serviços deste fornecedor		Actor Input	System Response
	1		Notifica utilizador
	2		Cancela operação

Adicionar Serviço

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Fornecedor
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Main	
Super Use Case	
Author	
Date	
Brief Description	Permite ao fornecedor adicionar um novo serviço
Preconditions	Utilizador autenticado
Post-conditions	Existe um serviço novo no sistema

Flow of Events		Actor Input	System Response
	1		Pede dados
	2	Insere dados do serviço	
	3	Insere tipologias do serviço	
	4	Insere modalidades da tipologia	
	5		Valida dados
	6		Regista dados
	7		Informa sucesso
Alternative 1 5a)		Actor Input	System Response
	1		Informa dados não validos
	2		volta ao passo 1

Adicionar Modalidade

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Fornecedor
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Main

Super Use Case			
Author			
Date			
Brief Description	Permite ao fornecedor adicionar uma modalidade a uma tipologia		
Preconditions	Estar autenticado como fornecedor		
Post-conditions	Existe uma nova modalidade associada a um serviço		
Flow of Events		Actor Input	System Response
	1		Apresenta lista de serviços do utilizador autenticado
	2	Escolhe um serviço	
	3		Apresenta lista de tipologias do serviço seleccionado
	4	Escolhe uma tipologia	
	5		Pede dados
	6	Insere dados	
	7		Valida dados
	8		Regista dados
	9		Informa sucesso
Exception 1 - Não existem serviços deste fornecedor		Actor Input	System Response
	1		Apresenta lista vazia
Alternative 5a)		Actor Input	System Response
	1		Informa dados não validos
	2		Volta ao passo 3

Alterar Modalidade

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Fornecedor
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Main			
Super Use Case			
Author			
Date			
Brief Description	Permite ao fornecedor actualizar uma modalidade de uma tipologia		
Preconditions	Estar autenticado como Fornecedor		
Post-conditions	Dados da Modalidade alterados no sistema		
Flow of Events		Actor Input	System Response
	1		Apresenta lista de Serviços
	2	Escolhe um serviço	
	3		Apresenta lista de tipologias
	4	Escolhe uma tipologia	
	5		Apresenta lista de modalidades
	6	Escolhe uma modalidade	
	7		Apresenta dados actuais
	8	Insere novos dados	
	9		Valida novos dados
	10		Regista novos dados
	11		Informa sucesso

Exception 1 1- Não existem serviços deste fornecedor		Actor Input	System Response
	1		Notifica utilizador
	2		Cancela operação
Alternative 9a)		Actor Input	System Response
	1		Informa dados não validos
	2		Volta ao passo 7

Adicionar Tipologia

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
To	Name	Value
	End Model Element	 Fornecedor
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Description1	
Super Use Case	
Author	Christophe
Date	1/Dez/2009 12:06:48
Brief Description	Permite ao fornecedor adicionar uma nova tipologia a um serviço
Preconditions	Utilizador autenticado como fornecedor

Post-conditions	Existe mais uma tipologia associada a um serviço do fornecedor		
Flow of Events		Actor Input	System Response
	1		Apresenta lista de serviços do utilizador autenticado
	2	Escolhe um serviço	
	3		Pede dados
	4	Inserir dados da nova tipologia	
	5	Inserir dados de uma nova modalidade	
	6		Valida dados
	7		Regista dados
	8		Informa sucesso
Exception 1 - Não existem serviços para apresentar		Actor Input	System Response
	1		A lista de serviços está vazia
	2		
Alternative 5a)		Actor Input	System Response
	1		Informa dados não válidos
	2		Volta ao passo 3

Alterar Tipologia

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
To	Name	Value
	End Model Element	 Fornecedor
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Description1			
Super Use Case			
Author	Christophe		
Date	1/Dez/2009 12:42:34		
Brief Description	Permite ao fornecedor actualizar uma tipologia de um serviço		
Preconditions	Utilizador autenticado como fornecedor		
Post-conditions	Dados de uma tipologia alterados no sistema		
Flow of Events		Actor Input	System Response
	1		Apresenta lista de serviços do utilizador autenticado
	2	Escolhe um serviço	
	3		Apresenta lista de tipologias do serviço seleccionado
	4	Escolhe uma tipologia	
	5		Apresenta dados actuais da tipologia seleccionada
	6	Insere novos dados	
	7		Valida dados
	8		Regista dados
	9		Informa sucesso

Exception 1 - Não existem serviços deste fornecedor		Actor Input	System Response
	1		Notifica utilizador
	2		cancela operação
Alternative 7a)		Actor Input	System Response
	1		Informa dados não validos
	2		volta ao passo 5

Remover Tipologia

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
To	Name	Value
	End Model Element	 Fornecedor
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Description1	
Super Use Case	
Author	Christophe
Date	1/Dez/2009 13:02:16
Brief Description	Permite ao fornecedor remover uma tipologia de um dos seus serviços
Preconditions	Estar autenticado como Fornecedor

Post-conditions	Existe menos uma tipologia e respectivas modalidades no sistema		
Flow of Events		Actor Input	System Response
	1		Apresenta lista de serviços
	2	Escolhe um serviço	
	3		Apresenta lista de tipologias
	4	Escolhe uma tipologia	
	5		Pede confirmação para remover
	6	Confirma a remoção	
	7		Remove tipologia seleccionada e respectivas modalidades
	8		Informa Sucesso
Alternative 6a)		Actor Input	System Response
	1	Não confirma a remoção	
	2		volta ao passo 4
Exception 1 - Não existem serviços deste fornecedor		Actor Input	System Response
	1		Apresenta lista vazia



SistemaGestãoFornecedores

Name	Value
Abstract	false
Leaf	false
Root	false

Children

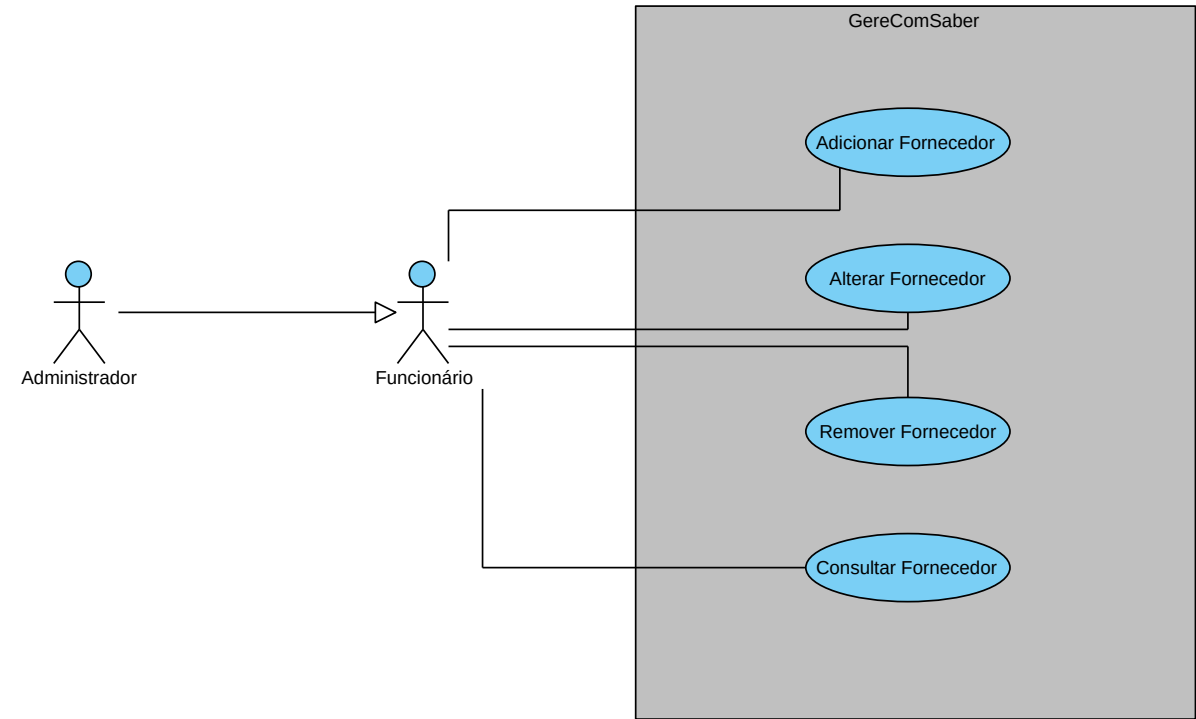
Name	Documentation
 Adicionar Serviço	
 Alterar Serviço	
 Remover Serviço	
 Remover Modalidade	
 Gerir Fornecedor2	
 Alterar Modalidade	
 Adicionar Modalidade	
 Login2	
 Consultar Serviço	
 Logout2	

GereComSaber

Name	Value
Abstract	false
Leaf	false
Root	false

Use Case Diagram

Gerir Fornecedores



Summary

Name	Documentation
 Funcionário	
 Adicionar Fornecedor	
 Remover Fornecedor	
 Alterar Fornecedor	
 Consultar Fornecedor	
 Administrador	
 GereComSaber	

Details

Funcionário

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Business Model	false

Relationships

Unnamed Association		
To	Name	Value
	End Model Element	 Adicionar Fornecedor
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Remover Fornecedor
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Alterar Fornecedor
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Consultar Fornecedor
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Generalization	
To	 Administrador
Substitutable	false
Visibility	Unspecified

Adicionar Fornecedor

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Funcionário
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Main	
Super Use Case	Gerir Fornecedores
Author	
Date	
Brief Description	Permite ao funcionario adicionar um novo fornecedor
Preconditions	Utilizador autenticado
Post-conditions	Existe um novo fornecedor no sistema

Flow of Events		Actor Input	System Response
	1		Pede dados
	2	Insere dados	
	3		Valida dados e pede confirmação
	4	Confirma	
	5		Regista dados
	6		Informa sucesso
Alternative 3b Não válidos		Actor Input	System Response
	1		informa erro
	2		volta ao passo 1.
Exception 4a Não confirma		Actor Input	System Response
	1		volta ao menu principal

Remover Fornecedor

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Funcionário
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Main			
Super Use Case	Gerir Fornecedor		
Author			
Date			
Brief Description	Permite ao funcionario remover um fornecedor		
Preconditions	Utilizador autenticado		
Post-conditions	Foi removido um fornecedor e respectivos serviços e modalidades do sistema		
Flow of Events		Actor Input	System Response
	1		Apresenta lista de Fornecedores
	2	Escolhe um fornecedor	
	3		Apresenta detalhes do fornecedor
	4		Pede confirmação para remover fornecedor seleccionado
	5	Confirma remoção	
	6		Remove fornecedor do sistema
	7		Informa sucesso
Alternative 1 5a)		Actor Input	System Response
	1	Não confirma a remoção	
	2		Volta para passo 1

Alterar Fornecedor

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Funcionário
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Main			
Super Use Case	Gerir Fornecedores		
Author			
Date			
Brief Description	Permite ao funcionario alterar os dados de um fornecedor		
Preconditions	Utilizador Autenticado, Existe pelo menos um Fornecedor		
Post-conditions	Dados do Fornecedor actualizados no sistema		
Flow of Events		Actor Input	System Response
	1		Apresenta lista de fornecedores
	2	Escolhe um fornecedor	
	3		Apresenta dados actuais
	4	Inserir novos dados	
	5		Valida novos dados
	6		Actualiza ficha
	7		Informa sucesso
Alternative 5b Não válidos		Actor Input	System Response
	1		volta ao passo 3.

Consultar Fornecedor

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Funcionário
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Main			
Super Use Case	Gerir Fornecedor		
Author			
Date			
Brief Description	Permite ao funcionario consultar os dados de um fornecedor		
Preconditions	Autenticado como Administrador		
Post-conditions			
Flow of Events		Actor Input	System Response
	1		Apresentar lista de fornecedor
	2	Escolhe um fornecedor	
	3		Apresenta detalhes do fornecedor



Administrador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Business Model	false

Relationships

Unnamed Generalization	
From	Funcionário
Substitutable	false
Visibility	Unspecified



GereComSaber

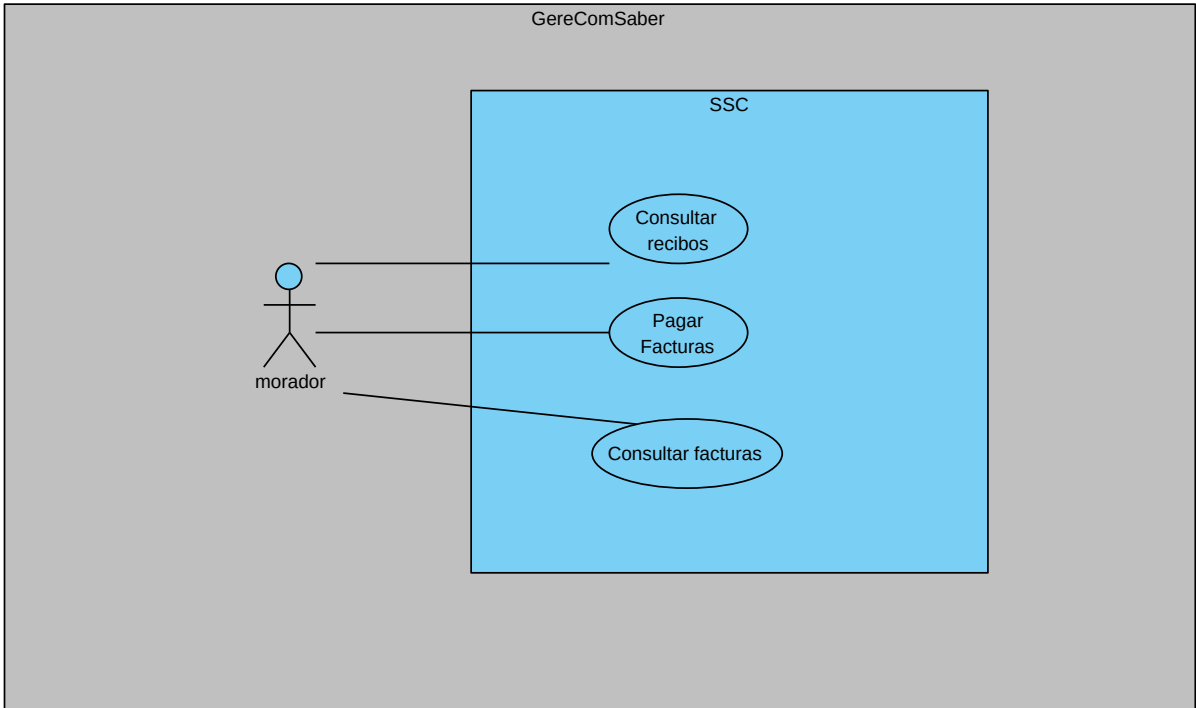
Name	Value
Abstract	false
Leaf	false
Root	false

Children

Name	Documentation
Adicionar Fornecedor	
Alterar Fornecedor	
Remover Fornecedor	
Consultar Fornecedor	

Use Case Diagram

Gerir Pagamentos



Summary

Name	Documentation
 morador	
 Consultar recibos	
 Pagar Facturas	
 Consultar facturas	
 GereComSaber	
 SSC	

Details

 morador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Business Model	false

Relationships

Unnamed Association		
To	Name	Value
	End Model Element	 Consultar recibos
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Pagar Facturas
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Consultar facturas
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Consultar recibos

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 morador
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Main			
Super Use Case			
Author	vitor		
Date	1/12/2009 12:39:55		
Brief Description	Permite ao morador consultar os seus recibos de pagamento		
Preconditions	morador autenticado		
Post-conditions			
Flow of Events		Actor Input	System Response
	1		apresenta lista de recibos do morador autenticado
	2	selecciona recibo	
	3		envia informação do recibo seleccionado
Execption 1 - morador autenticado não tem recibos		Actor Input	System Response
	1		apresenta lista vazia
	2		termina operação

Sub Diagrams

Name	Documentation
 Consultar recibos passo 1	

Pagar Facturas

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 morador
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Main			
Super Use Case			
Author	vitor		
Date	1/12/2009 12:51:38		
Brief Description	Permite ao morador executar as ordens de pagamento associadas as suas facturas		
Preconditions	morador autenticado		
Post-conditions	número de recibos adicionados ao total de recibos do sistema		
Flow of Events		Actor Input	System Response
	1		apresenta lista de facturas com ordens de pagamento não pagas já vencidas
	2	selecciona factura	

	3		apresenta lista de ordens de pagamento não pagas já vencidas
	4	selecciona ordens de pagamento	
	5		calcula montante a pagar
	6		apresenta montante a pagar
	7	paga montante das ordens de pagamento seleccionadas	
	8		emite recibos para os ordens de pagamento seleccionadas
	9		informa sucesso
	10		informa sucesso
		Actor Input	System Response
	1		apresenta lista vazia
Exception 1 - não existem facturas com ordens de pagamento por pagar já vencidas	2		termina operação

Sub Diagrams

Name	Documentation
 Pagar Facturas passo 2	
 Pagar Facturas passo 1	

Consultar facturas

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 morador
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Main			
Super Use Case	gerir pagamentos		
Author	vitor		
Date	22/Nov/2009 12:44:44		
Brief Description	Permite ao marador consultar todas as suas facturas		
Preconditions	morador autenticado,		
Post-conditions			
Flow of Events		Actor Input	System Response
	1		apresenta lista de facturas do morador autenticado
	2	selecciona factura	
	3		apresenta lista de ordens de pagamento presentes na factura
Exception 1- morador autenticado não tem facturas		Actor Input	System Response
	1		apresenta uma lista vazia

Sub Diagrams

Name	Documentation
 Consultar facturas passo 2	
 Consultar facturas passo1	
 Consultar facturas passo 3	

GereComSaber

Name	Value
Abstract	false
Leaf	false
Root	false

SSC

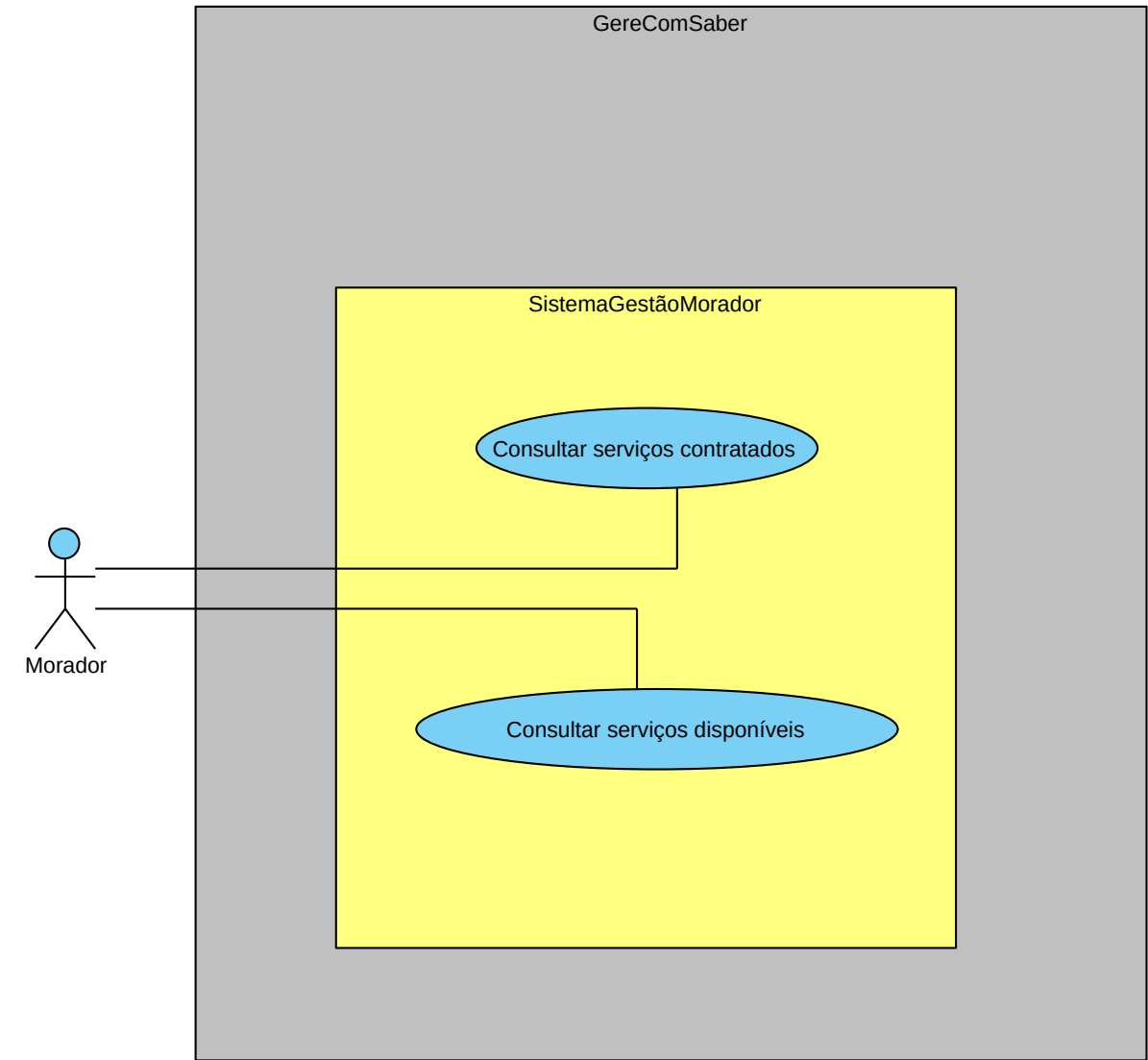
Name	Value
Abstract	false
Leaf	false
Root	false

Children

Name	Documentation
 Consultar recibos	
 Consultar facturas	
 Pagar Facturas	

Use Case Diagram

Consultar Serviços



Summary

Name	Documentation
 Morador	
 Consultar serviços contratados	
 Consultar serviços disponíveis	
 SistemaGestãoMorador	
 GereComSaber	

Details



Morador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Business Model	false

Relationships

Unnamed Association		
To	Name	Value
	End Model Element	 Consultar serviços contratados
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Consultar serviços disponíveis
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Consultar serviços contratados

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Morador
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Main			
Super Use Case	Consultar Serviços		
Author	Bruno		
Date	22/Nov/2009 16:39:03		
Brief Description	Morador consulta os serviços que contratou		
Preconditions	Morador autenticado		
Post-conditions			
Flow of Events		Actor Input	System Response
	1		Apresenta a lista de fornecedores contratados
	2	Selecciona fornecedor	
	3		Apresenta a lista dos serviços contratados pelo fornecedor seleccionado

Consultar serviços disponíveis

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Morador
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Main			
Super Use Case	Consultar Serviços		
Author	Bruno		
Date	22/Nov/2009 16:48:57		
Brief Description	Morador consulta os serviços disponíveis por fornecedor		
Preconditions	Morador autenticado		
Post-conditions			
Flow of Events		Actor Input	System Response
	1		Apresenta a lista de todos os fornecedores
	2	Selecciona um fornecedor	
	3		Apresenta a lista de serviços prestados pelo fornecedor seleccionado

SistemaGestãoMorador

Name	Value
Abstract	false
Leaf	false
Root	false

Children

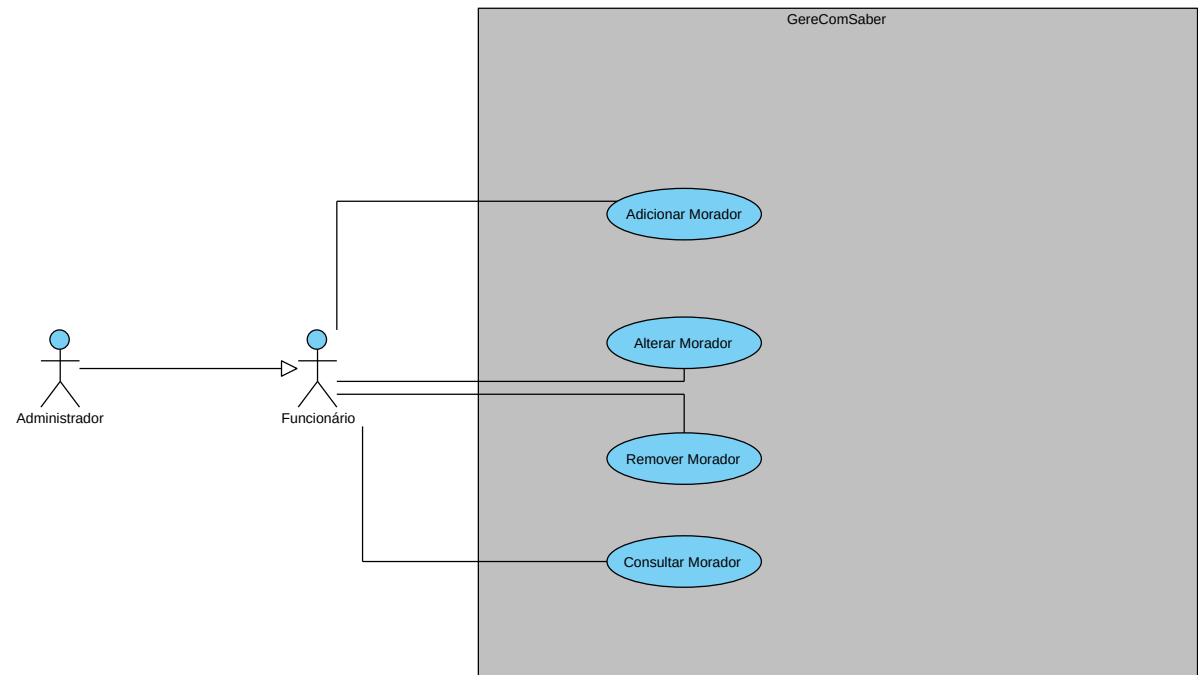
Name	Documentation
 Consultar serviços contratados	
 Consultar serviços disponíveis	

GereComSaber

Name	Value
Abstract	false
Leaf	false
Root	false

Use Case Diagram

Gerir Moradores



Summary

Name	Documentation
 Funcionário	
 Adicionar Morador	
 Consultar Morador	
 Alterar Morador	
 Remover Morador	
 Administrador	
 GereComSaber	

Details

Funcionário

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Business Model	false

Relationships

Unnamed Generalization	
To	 Administrador
Substitutable	false
Visibility	Unspecified

Unnamed Association		
To	Name	Value
	End Model Element	 Adicionar Morador
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Consultar Morador
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Alterar Morador
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Remover Morador
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Adicionar Morador

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Funcionário
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Main	
Super Use Case	Gerir Moradores
Author	
Date	
Brief Description	Permite ao funcionario adicionar um novo morador
Preconditions	Utilizador Autenticado
Post-conditions	Novo Morador Inserido

Flow of Events		Actor Input	System Response
	1		Apresenta formulario
	2	Insere dados	
	3		Valida dados e pede confirmação
	4	Confirma	
	5		Regista dados
	6		Informa sucesso
Alternative 3b Não Válidos		Actor Input	System Response
	1		Volta ao passo 1.
Exception 4a Não confirma		Actor Input	System Response
	1		volta ao menu principal

Consultar Morador

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Funcionário
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Main		
Super Use Case	Gerir Moradores	
Author		
Date		
Brief Description	Permite ao funcionario consultar os dados um morador	
Preconditions	Utilizador autenticado	
Post-conditions		
Flow of Events		

Alterar Morador

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Funcionário
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Main			
Super Use Case	Gerir Moradores		
Author			
Date			
Brief Description	Permite ao funcionario alterar os dados de um morador		
Preconditions	Utilizador Autenticado		
Post-conditions	Alteracoes efectuadas com sucesso		
Flow of Events		Actor Input	System Response
	1		Apresenta lista de Moradores
	2	Escolhe um Morador	
	3		Apresenta Formulario
	4	Insere novos dados	
	5		Valida novos dados e pede confirmação
	6	Confirma operação	
	7		Regista novos dados
	8		Informa sucesso
Alternative 5b Não válidos		Actor Input	System Response
	1		Apresenta Erro
	2		Volta ao passo 4
Exception 6a Não confirma		Actor Input	System Response
	1		Volta ao menu principal

Remover Morador

Name	Value
Abstract	false
Leaf	false
Root	false
Rank	Unspecified
Business Model	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Funcionário
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Use Case Descriptions

Main			
Super Use Case	Gerir Moradores		
Author			
Date			
Brief Description	Permite ao funcionario remover um morador		
Preconditions	Utilizador autenticado		
Post-conditions	Foi removido um Morador do sistema		
Flow of Events		Actor Input	System Response
	1		Apresenta lista de Moradores
	2	Selecciona Morador	
	3		Apresenta detalhes do morador
	4		Pede confirmação para remover
	5	Confirma remoção	
	6		Remove Morador
Exception 5a) Não Confirma		Actor Input	System Response
	1		Informa que não houve remoção
	2		Volta ao menu principal



Administrador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Business Model	false

Relationships

Unnamed Generalization	
From	Funcionário
Substitutable	false
Visibility	Unspecified



GereComSaber

Name	Value
Abstract	false
Leaf	false
Root	false

Children

Name	Documentation
Adicionar Morador	
Alterar Morador	
Remover Morador	
Consultar Morador	

Diagrama de Classes de Implementação



Name	Documentation
 pagamentos	
 recibo	
 OrdemPagamento	
 Factura	
 Fornecedor	
 Serviços	
 Serviço	
 Tipologia	
 Modalidade	
 Morador	
 Autenticação	
 Credenciais	
 Credencial	
 Serviços Contratados	

 ModalidadeContratada	
 ServicoContratado	
 Utilizadores	
 GereComSaber	

Details

pagamentos

Name	Value
Abstract	false
Leaf	false
Root	false
Visibility	public

Children

Name	Documentation
 recibo	
 OrdemPagamento	

recibo

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false

Attributes

private info : arrayList			
Template Type Bind Info			
Type	arrayList		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

Operations

public getInfo () : ArrayList	
Static	false
Leaf	false
Template Type Bind Info	
Ordered	false
Unique	true
Query	false

Relationships

Unnamed Association		
From (1)	Name	Value
	End Model Element	 OrdemPagamento
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	Composited
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

OrdemPagamento

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false

Attributes

private numero : Integer			
Type	Integer		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private estado : Boolean			
Type	Boolean		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private valor			
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private dataVencimento : Date			
Type	Date		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private dataCriacao : Date			
Type	Date		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

Operations

public getValor ()	
Static	false
Leaf	false
Ordered	false
Unique	true
Query	false

public getRecibo () : Recibo	
Static	false
Leaf	false
Ordered	false
Unique	true
Query	false

public setEstado ()	
Static	false
Leaf	false
Ordered	false
Unique	true
Query	false

public emiteRecibo ()	
Static	false
Leaf	false
Ordered	false
Unique	true
Query	false

Relationships

Unnamed Association		
To (1)	Name	Value
	End Model Element	 recibo
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
From (1)	Name	Value
	End Model Element	 ModalidadeContratada
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	Composited
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Factura

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false

Attributes

private estado			
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private idMorador : Integer			
Type	Integer		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

Operations

public getRecibos () : arrayList	
Static	false
Leaf	false
Template Type Bind Info	
Ordered	false
Unique	true
Query	false

public getOrdensPagamento () : arrayList	
Static	false
Leaf	false
Template Type Bind Info	
Ordered	false
Unique	true
Query	false

public getOrdPNaoPagas () : arrayList	
Static	false
Leaf	false
Template Type Bind Info	
Ordered	false
Unique	true
Query	false

public emiteRecibos ()	
Static	false
Leaf	false
Ordered	false
Unique	true
Query	false

public checkEstado ()	
Static	false
Leaf	false
Ordered	false
Unique	true
Query	false

Relationships

Unnamed Association		
To (1..*)	Name	Value
	End Model Element	 ModalidadeContratada
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
From (1)	Name	Value
	End Model Element	 ServicoContratado
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	Composited
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Fornecedor

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false

Attributes

nome : String			
Type	String		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

Operations

getListaServiços () : arrayList	
Static	false
Leaf	false
Template Type Bind Info	
Ordered	false
Unique	true
Query	false

getDetalhesServiço (servico)		
Parameters	servico	
	Multiplicity	Unspecified
	Direction	inout
Static	false	
Leaf	false	
Ordered	false	
Unique	true	
Query	false	

addServiço (nome : String, tipo : Tlpologia, mod : Modalidade)		
Parameters	nome	
	Multiplicity	Unspecified
	Type	String
	Direction	inout
	tipo	
	Multiplicity	Unspecified
	Type	Tlpologia
	Direction	inout
	mod	
	Multiplicity	Unspecified
	Type	 Modalidade
	Direction	inout
Static	false	
Leaf	false	
Ordered	false	
Unique	true	
Query	false	

getService () : Service	
Static	false
Leaf	false
Ordered	false
Unique	true
Query	false

Relationships

Unnamed Association		
To (1..*)	Name	Value
	End Model Element	 Serviço
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
From (1)	Name	Value
	End Model Element	 GereComSaber
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	Composited
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Serviços

Name	Value
Abstract	false
Leaf	false
Root	false
Visibility	public

Children

Name	Documentation
 Modalidade	
 Tipologia	
 Serviço	

Serviço

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false

Attributes

nome : String			
Type	String		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private nomeFornecedor : String			
Type	String		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

Operations

geListaTipologias () : arrayList	
Static	false
Leaf	false
Template Type Bind Info	
Ordered	false
Unique	true
Query	false

addTipologia (tip : Tipologia)		
Parameters	tip	
	Multiplicity	Unspecified
	Type	 Tipologia
	Direction	inout
Static	false	
Leaf	false	
Ordered	false	
Unique	true	
Query	false	

getTipologia (tip : String)		
Parameters	tip	
	Multiplicity	Unspecified
	Type	String
	Direction	inout
Static	false	
Leaf	false	
Ordered	false	
Unique	true	
Query	false	

Relationships

Unnamed Association		
To (1..*)	Name	Value
	End Model Element	 Tipologia
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
From (1)	Name	Value
	End Model Element	 Fornecedor
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	Composited
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Tipologia

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false

Attributes

nome : String			
Type	String		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

Operations

getListaModalidades () : arrayList	
Static	false
Leaf	false
Template Type Bind Info	
Ordered	false
Unique	true
Query	false

addModalidade (mod : Modalidade)		
Parameters	mod	
	Multiplicity	Unspecified
	Type	 Modalidade
	Direction	inout
Static	false	
Leaf	false	
Ordered	false	
Unique	true	
Query	false	

getModalidade (nome : String) : Modalidade		
Parameters	nome	
	Multiplicity	Unspecified
	Type	String
	Direction	inout
Static	false	
Leaf	false	
Ordered	false	
Unique	true	
Query	false	

Relationships

Unnamed Association		
To (1..*)	Name	Value
	End Model Element	 Modalidade
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
From (1)	Name	Value
	End Model Element	 Serviço
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	Composited
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Modalidade

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false

Attributes

nome : String			
Type	String		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

preco			
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

comissao			
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

Relationships

Unnamed Association		
From (1)	Name	Value
	End Model Element	 Tipologia
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	Composited
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Morador

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false

Attributes

private nome : String			
Type	String		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private numero : Integer			
Type	Integer		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

Operations

public getServicos () : arrayList	
Static	false
Leaf	false
Template Type Bind Info	
Ordered	false
Unique	true
Query	false

Relationships

Unnamed Association		
From (1)	Name	Value
	End Model Element	 GereComSaber
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	Composited
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
From (0..*)	Name	Value
	End Model Element	 ServicoContratado
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Autenticação

Name	Value
Abstract	false
Leaf	false
Root	false
Visibility	public

Children

Name	Documentation
 Credenciais	
 Credencial	

Credenciais

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false

Operations

public autentica (numero : Integer, username : String) : Boolean		
Parameters	numero	
	Multiplicity	Unspecified
	Type	Integer
	Direction	inout
	username	
	Multiplicity	Unspecified
	Type	String
	Direction	inout
Static	false	
Leaf	false	
Ordered	false	
Unique	true	
Query	false	

Relationships

Unnamed Association		
To	Name	Value
	End Model Element	 Credential
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
From (1)	Name	Value
	End Model Element	 GereComSaber
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	Composited
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Credencial

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false

Attributes

private password : String			
Type	String		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private username : String			
Type	String		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Credenciais
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Serviços Contratados

Name	Value
Abstract	false
Leaf	false
Root	false
Visibility	public

Children

Name	Documentation
 pagamentos	
 Fatura	
 ServicoContratado	

ModalidadeContratada

Name	Value
Active	false
Business Model	false
Visibility	Unspecified
Leaf	false
Root	false

Attributes

private numero : Integer			
Type	Integer		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private nomeFornecedor : String			
Type	String		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private valorModalidade			
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private nomeModalidade : String			
Type	String		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private nomeServico : String			
Type	String		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private nomeTipologia : String			
Type	String		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private metodoPagamento : Int			
Type	Int		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

Operations

public getRecibos () : arrayList	
Static	false
Leaf	false
Template Type Bind Info	
Ordered	false
Unique	true
Query	false

public actualizaOrdensP ()	
Static	false
Leaf	false
Ordered	false
Unique	true
Query	false

public getOrdensPagamento () : arrayList	
Static	false
Leaf	false
Template Type Bind Info	
Ordered	false
Unique	true
Query	false

Relationships

Unnamed Association		
To (1..*)	Name	Value
	End Model Element	 OrdemPagamento
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
From (1)	Name	Value
	End Model Element	 Factura
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	Composited
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

ServicoContratado

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false

Attributes

private nomeServico			
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

Operations

public getFactura () : Factura	
Static	false
Leaf	false
Ordered	false
Unique	true
Query	false

public getListaFactNaoPagas () : arrayList	
Static	false
Leaf	false
Template Type Bind Info	
Ordered	false
Unique	true
Query	false

Relationships

Unnamed Association		
To (1)	Name	Value
	End Model Element	 Factura
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To (1)	Name	Value
	End Model Element	 Morador
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	Composited
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Utilizadores

Name	Value
Abstract	false
Leaf	false
Root	false
Visibility	public

Children

Name	Documentation
 Fornecedor	
 Morador	

GereComSaber

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false

Attributes

private saldo			
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

Operations

public addFornecedor (nome : String)		
Parameters	nome	
	Multiplicity	Unspecified
	Type	String
	Direction	inout
Static	false	
Leaf	false	
Ordered	false	
Unique	true	
Query	false	

public delFornecedor (nome : String)		
Parameters	nome	
	Multiplicity	Unspecified
	Type	String
	Direction	inout
Static	false	
Leaf	false	
Ordered	false	
Unique	true	
Query	false	

public getFornecedores () : arrayList	
Static	false
Leaf	false
Template Type Bind Info	
Ordered	false
Unique	true
Query	false

public getFornecedor () : Fornecedor	
Static	false
Leaf	false
Ordered	false
Unique	true
Query	false

public addMorador (nome : String)		
Parameters	nome	
	Multiplicity	Unspecified
	Type	String
	Direction	inout
Static	false	
Leaf	false	
Ordered	false	
Unique	true	
Query	false	

public delMorador (numero : Integer)		
Parameters	numero	
	Multiplicity	Unspecified
	Type	Integer
	Direction	inout
Static	false	
Leaf	false	
Ordered	false	
Unique	true	
Query	false	

public getMoradores () : arrayList	
Static	false
Leaf	false
Template Type Bind Info	
Ordered	false
Unique	true
Query	false

public getMorador () : Morador	
Static	false
Leaf	false
Ordered	false
Unique	true
Query	false

public autentica (numero : Integer, password : String) : Boolean		
Parameters	numero	
	Multiplicity	Unspecified
	Type	Integer
	Direction	inout
	password	
	Multiplicity	Unspecified
	Type	String
	Direction	inout
Static	false	
Leaf	false	
Ordered	false	
Unique	true	
Query	false	

public getTodosServicos () : arrayList	
Static	false
Leaf	false
Template Type Bind Info	
Ordered	false
Unique	true
Query	false

public getSaldo ()	
Static	false
Leaf	false
Ordered	false
Unique	true
Query	false

Relationships

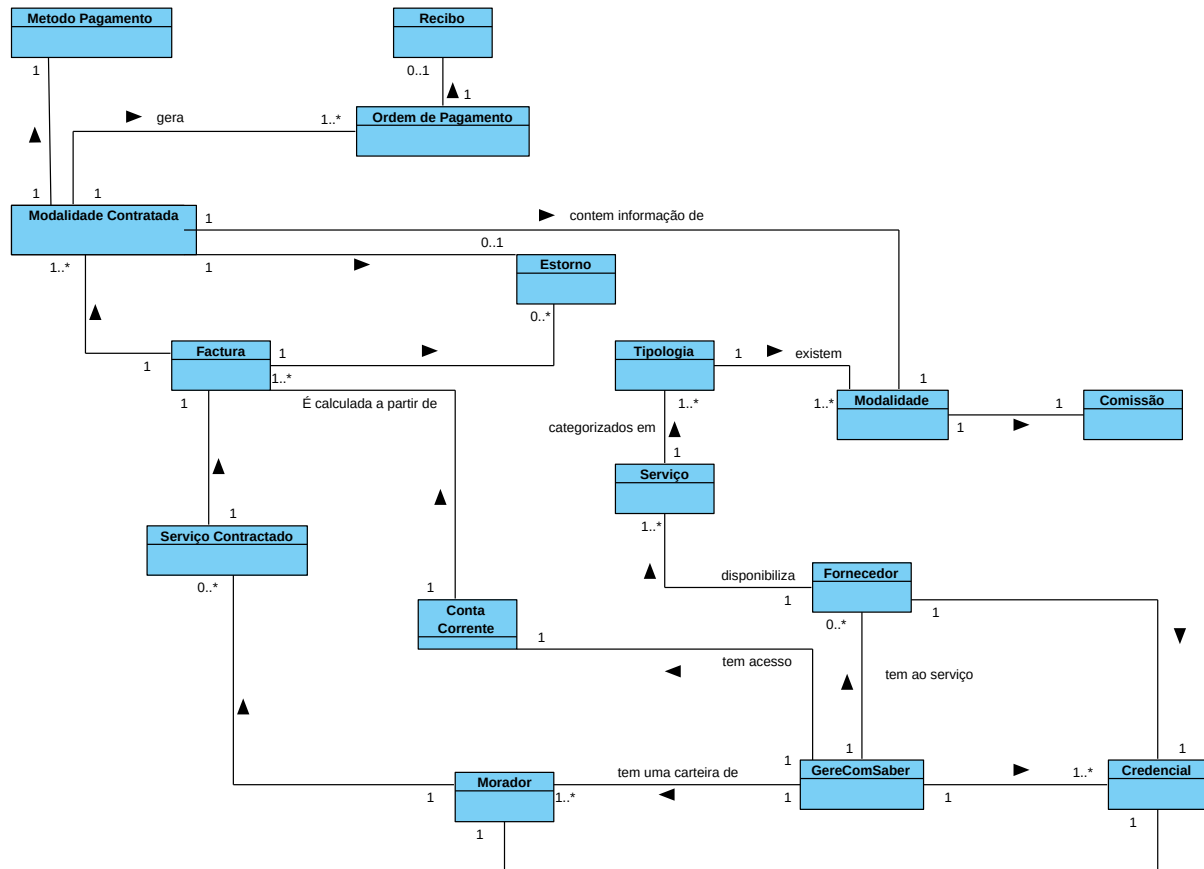
Unnamed Association		
To (0..*)	Name	Value
	End Model Element	 Morador
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To (0..*)	Name	Value
	End Model Element	 Fornecedor
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To (1..*)	Name	Value
	End Model Element	 Credenciais
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Class Diagram

MD_GereComSaber



Summary

Name	Documentation
 Morador	
 Recibo	
 Factura	
 Ordem de Pagamento	
 ModalidadeContratada	
 Serviço	
 Fornecedor	
 GereComSaber	
 Comissão	
 Modalidade	
 Estorno	
 Tipologia	
 Metodo Pagamento	
 Conta Corrente	
 Serviço Contractado	

 Credencial	
 Modalidade Contratada	

Details

Morador

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false

Relationships

Unnamed Association		
To (tem uma carteira de)	Name	Value
	End Model Element	 GereComSaber
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	1..*
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To (0..*)	Name	Value
	End Model Element	 Serviço Contractado
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To (1)	Name	Value
	End Model Element	 Credencial
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Recibo

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false

Relationships

Unnamed Association		
From (1)	Name	Value
	End Model Element	 Ordem de Pagamento
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Factura

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false

Relationships

Unnamed Association		
To (1..*)	Name	Value
	End Model Element	 ModalidadeContratada
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
From	Name	Value
	End Model Element	 Estorno
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	0..*
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
From (É calculada a partir de)	Name	Value
	End Model Element	 Conta Corrente
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	1
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
From (1)	Name	Value
	End Model Element	 Serviço Contractado
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Ordem de Pagamento

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false

Relationships

Unnamed Association		
To (0..1)	Name	Value
	End Model Element	 Recibo
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

gera : Association		
From (1)	Name	Value
	End Model Element	 ModalidadeContratada
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

ModalidadeContratada

Name	Value
Active	false
Business Model	false
Visibility	Unspecified
Leaf	false
Root	false

Attributes

private numero : Integer			
Type	Integer		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private nomeFornecedor : String			
Type	String		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private valorModalidade			
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private nomeModalidade : String			
Type	String		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private nomeServico : String			
Type	String		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private nomeTipologia : String			
Type	String		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private metodoPagamento : Int			
Type	Int		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

Operations

public getRecibos () : arrayList	
Static	false
Leaf	false
Template Type Bind Info	
Ordered	false
Unique	true
Query	false

public atualizaOrdensP ()	
Static	false
Leaf	false
Ordered	false
Unique	true
Query	false

public getOrdensPagamento () : arrayList	
Static	false
Leaf	false
Template Type Bind Info	
Ordered	false
Unique	true
Query	false

Relationships

gera : Association		
To (1..*)	Name	Value
	End Model Element	 Ordem de Pagamento
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To (0..1)	Name	Value
	End Model Element	 Estorno
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
From	Name	Value
	End Model Element	 Metodo Pagamento
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	1
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
From (1)	Name	Value
	End Model Element	 Factura
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

contem informação de : Association		
From (1)	Name	Value
	End Model Element	 Modalidade
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Serviço

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false

Relationships

Unnamed Association		
From (disponibiliza)	Name	Value
	End Model Element	 Fornecedor
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	1
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
From (categorizados em)	Name	Value
	End Model Element	 Tipologia
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	1..*
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Fornecedor

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false

Relationships

Unnamed Association		
To	Name	Value
	End Model Element	 Serviço
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	1..*
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To (1)	Name	Value
	End Model Element	 Credencial
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
From	Name	Value
	End Model Element	 GereComSaber
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	1
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

GereComSaber

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false

Relationships

Unnamed Association		
To (tem ao serviço)	Name	Value
	End Model Element	 Fornecedor
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	0..*
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Conta Corrente
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	1
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To (1..*)	Name	Value
	End Model Element	 Credencial
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
From	Name	Value
	End Model Element	 Morador
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	1
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Comissão

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false

Relationships

Unnamed Association		
From	Name	Value
	End Model Element	 Modalidade
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	1
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Modalidade

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false

Relationships

Unnamed Association		
To	Name	Value
	End Model Element	 Comissão
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	1
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

contem informação de : Association		
To (1)	Name	Value
	End Model Element	 ModalidadeContratada
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
From (existem)	Name	Value
	End Model Element	 Tipologia
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	1
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Estorno

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false

Relationships

Unnamed Association		
To	Name	Value
	End Model Element	 Factura
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	1
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
From (1)	Name	Value
	End Model Element	 ModalidadeContratada
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Tipologia

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false

Relationships

Unnamed Association		
To	Name	Value
	End Model Element	 Serviço
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	1
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
To	Name	Value
	End Model Element	 Modalidade
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	1..*
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Metodo Pagamento

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false

Relationships

Unnamed Association		
To	Name	Value
	End Model Element	 ModalidadeContratada
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	1
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Conta Corrente

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false

Relationships

Unnamed Association		
To	Name	Value
	End Model Element	 Factura
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	1..*
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
From (tem acesso)	Name	Value
	End Model Element	 GereComSaber
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	1
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Serviço Contractado

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false

Relationships

Unnamed Association		
To (1)	Name	Value
	End Model Element	 Factura
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
From (1)	Name	Value
	End Model Element	 Morador
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

 N/A

Credencial

Name	Value
Active	false
Business Model	false
Visibility	public
Leaf	false
Root	false

Relationships

Unnamed Association		
From (1)	Name	Value
	End Model Element	 GereComSaber
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
From (1)	Name	Value
	End Model Element	 Morador
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Unnamed Association		
From (1)	Name	Value
	End Model Element	 Fornecedor
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	true
	Qualifier	
	Derived	false
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	

Modalidade Contratada

Name	Value
Active	false
Business Model	false
Visibility	Unspecified
Leaf	false
Root	false

Attributes

private numero : Integer			
Type	Integer		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private nomeFornecedor : String			
Type	String		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private valorModalidade			
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private nomeModalidade : String			
Type	String		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private nomeServico : String			
Type	String		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private nomeTipologia : String			
Type	String		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

private metodoPagamento : Int			
Type	Int		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

Operations

public getRecibos () : arrayList	
Static	false
Leaf	false
Template Type Bind Info	
Ordered	false
Unique	true
Query	false

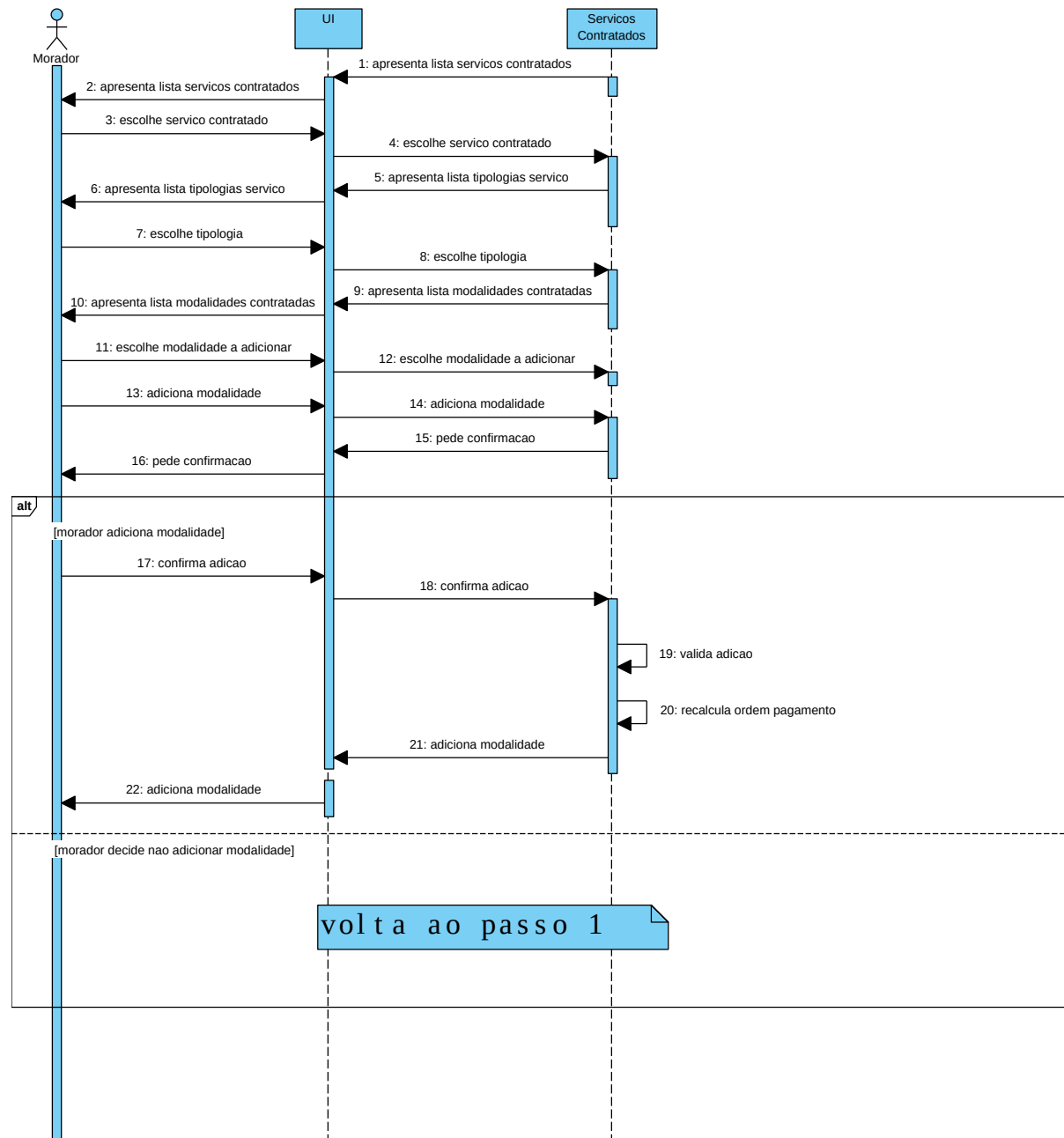
public actualizaOrdensP ()	
Static	false
Leaf	false
Ordered	false
Unique	true
Query	false

public getOrdensPagamento () : arrayList	
Static	false
Leaf	false
Template Type Bind Info	
Ordered	false
Unique	true
Query	false

Sequence Diagram

Adicionar Modalidade - DS

Implementação - passo3



Summary

Name	Documentation
 Servicos Contratados	
 UI	
 Morador	
 Operand	

 Operand2	
 N/A	volta ao passo 1
 morador adiciona modalidade	

Details

Servicos Contratados

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresenta lista servicos contratados : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	1	
Asynchronous	false	

escolhe servico contratado : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Message	
Sequence Number	4	
Asynchronous	false	

apresenta lista tipologias servico : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	5	
Asynchronous	false	

escolhe tipologia : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Message	
Sequence Number	8	
Asynchronous	false	

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	9	
Asynchronous	false	

escolhe modalidade a adicionar : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Message	
Sequence Number	12	
Asynchronous	false	

adiciona modalidade : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Message	
Sequence Number	14	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	15	
Asynchronous	false	

confirma adicao : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Message	
Sequence Number	18	
Asynchronous	false	

valida adicao : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Self Message	
Sequence Number	19	
Asynchronous	false	

valida adicao : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Self Message	
Sequence Number	19	
Asynchronous	false	

recalcula ordem pagamento : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Self Message	
Sequence Number	20	
Asynchronous	false	

recalcula ordem pagamento : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Self Message	
Sequence Number	20	
Asynchronous	false	

adiciona modalidade : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	21	
Asynchronous	false	



UI

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresenta lista servicos contratados : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	1	
Asynchronous	false	

apresenta lista servicos contratados : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	2	
Asynchronous	false	

escolhe servico contratado : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	3	
Asynchronous	false	

escolhe servico contratado : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Message	
Sequence Number	4	
Asynchronous	false	

apresenta lista tipologias servico : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	5	
Asynchronous	false	

apresenta lista tipologias servico : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	6	
Asynchronous	false	

escolhe tipologia : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	7	
Asynchronous	false	

escolhe tipologia : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Message	
Sequence Number	8	
Asynchronous	false	

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	9	
Asynchronous	false	

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	10	
Asynchronous	false	

escolhe modalidade a adicionar : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	11	
Asynchronous	false	

escolhe modalidade a adicionar : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Message	
Sequence Number	12	
Asynchronous	false	

adiciona modalidade : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	13	
Asynchronous	false	

adiciona modalidade : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Message	
Sequence Number	14	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	15	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	16	
Asynchronous	false	

confirma adicao : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	17	
Asynchronous	false	

confirma adicao : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Message	
Sequence Number	18	
Asynchronous	false	

adiciona modalidade : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	21	
Asynchronous	false	

adiciona modalidade : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	22	
Asynchronous	false	

Morador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresenta lista servicos contratados : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	2	
Asynchronous	false	

escolhe servico contratado : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	3	
Asynchronous	false	

apresenta lista tipologias servico : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	6	
Asynchronous	false	

escolhe tipologia : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	7	
Asynchronous	false	

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	10	
Asynchronous	false	

escolhe modalidade a adicionar : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	11	
Asynchronous	false	

adiciona modalidade : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	13	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	16	
Asynchronous	false	

confirma adicao : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	17	
Asynchronous	false	

adiciona modalidade : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	22	
Asynchronous	false	

Operand

Name	Value	
Guard	Name	Value
	Constraint	morador adiciona modalidade

Operand2

Name	Value	
Guard	Name	Value
	Constraint	morador decide nao adicionar modalidade

N/A

Name	Value
Documentation	volta ao passo 1

morador adiciona modalidade

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand
Operand2

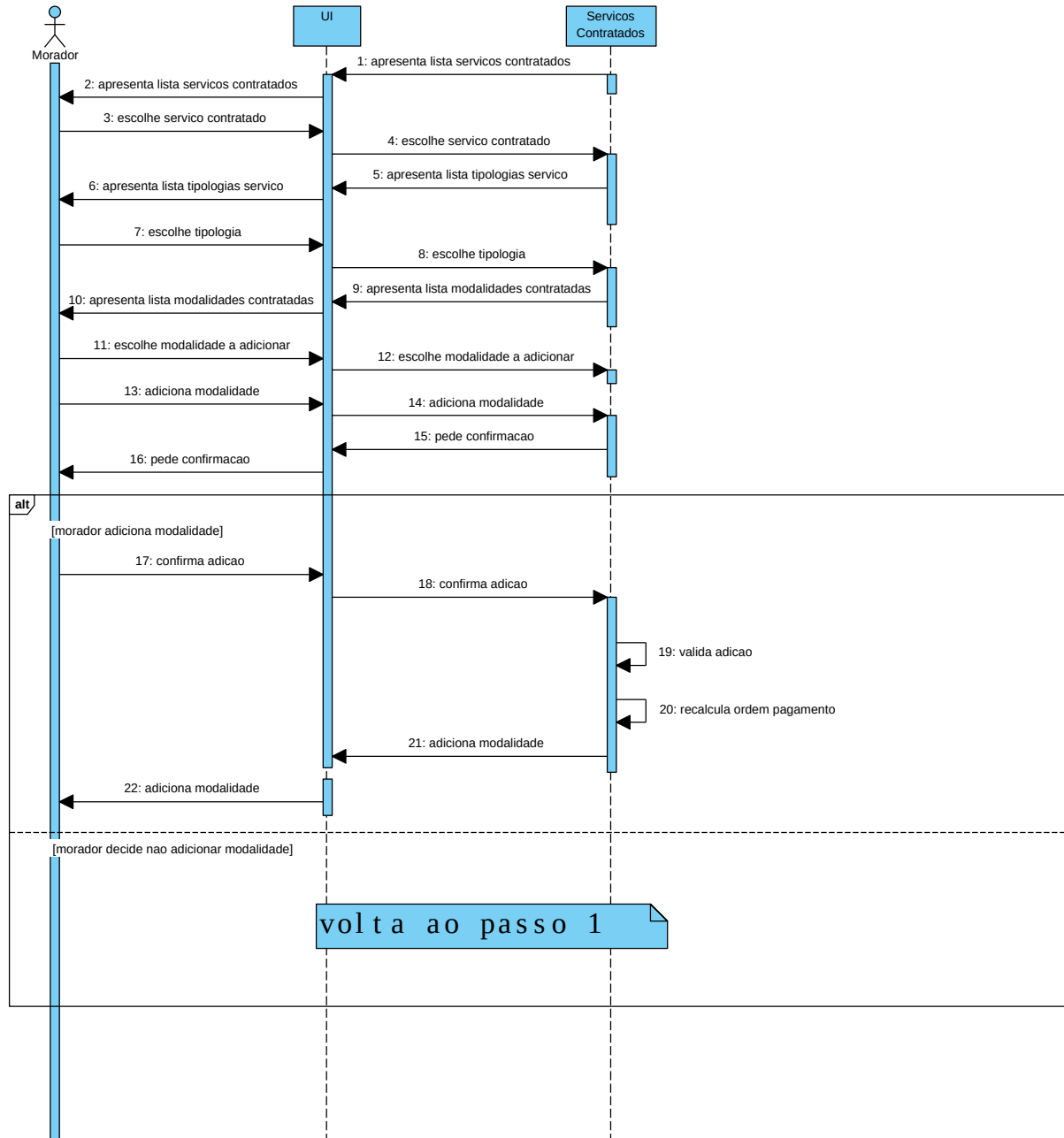
Covered LifeLines

Name	Documentation
 Morador	
 Servicios Contratados	
 UI	

Sequence Diagram

Adicionar Modalidade - DS

Subsistemas - passo2



Summary

Name	Documentation
 Servicos Contratados	
 UI	
 Morador	

 morador adiciona modalidade	
 Operand	
 Operand2	
 N/A	volta ao passo 1

Details

Servicos Contratados

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresenta lista servicos contratados : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	1	
Asynchronous	false	

escolhe servico contratado : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Message	
Sequence Number	4	
Asynchronous	false	

apresenta lista tipologias servico : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	5	
Asynchronous	false	

escolhe tipologia : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Message	
Sequence Number	8	
Asynchronous	false	

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	9	
Asynchronous	false	

escolhe modalidade a adicionar : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Message	
Sequence Number	12	
Asynchronous	false	

adiciona modalidade : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Message	
Sequence Number	14	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	15	
Asynchronous	false	

confirma adicao : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Message	
Sequence Number	18	
Asynchronous	false	

valida adicao : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Self Message	
Sequence Number	19	
Asynchronous	false	

valida adicao : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Self Message	
Sequence Number	19	
Asynchronous	false	

recalcula ordem pagamento : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Self Message	
Sequence Number	20	
Asynchronous	false	

recalcula ordem pagamento : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Self Message	
Sequence Number	20	
Asynchronous	false	

adiciona modalidade : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	21	
Asynchronous	false	



UI

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresenta lista servicos contratados : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	1	
Asynchronous	false	

apresenta lista servicos contratados : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	2	
Asynchronous	false	

escolhe servico contratado : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	3	
Asynchronous	false	

escolhe servico contratado : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Message	
Sequence Number	4	
Asynchronous	false	

apresenta lista tipologias servico : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	5	
Asynchronous	false	

apresenta lista tipologias servico : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	6	
Asynchronous	false	

escolhe tipologia : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	7	
Asynchronous	false	

escolhe tipologia : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Message	
Sequence Number	8	
Asynchronous	false	

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	9	
Asynchronous	false	

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	10	
Asynchronous	false	

escolhe modalidade a adicionar : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	11	
Asynchronous	false	

escolhe modalidade a adicionar : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Message	
Sequence Number	12	
Asynchronous	false	

adiciona modalidade : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	13	
Asynchronous	false	

adiciona modalidade : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Message	
Sequence Number	14	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	15	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	16	
Asynchronous	false	

confirma adicao : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	17	
Asynchronous	false	

confirma adicao : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Message	
Sequence Number	18	
Asynchronous	false	

adiciona modalidade : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	21	
Asynchronous	false	

adiciona modalidade : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	22	
Asynchronous	false	

Morador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresenta lista servicos contratados : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	2	
Asynchronous	false	

escolhe servico contratado : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	3	
Asynchronous	false	

apresenta lista tipologias servico : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	6	
Asynchronous	false	

escolhe tipologia : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	7	
Asynchronous	false	

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	10	
Asynchronous	false	

escolhe modalidade a adicionar : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	11	
Asynchronous	false	

adiciona modalidade : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	13	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	16	
Asynchronous	false	

confirma adicao : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	17	
Asynchronous	false	

adiciona modalidade : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	22	
Asynchronous	false	



morador adiciona modalidade

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand
Operand2

Covered LifeLines

Name	Documentation
 Morador	
 Servicos Contratos	
 UI	



Operand

Name	Value	
Guard	Name	Value
	Constraint	morador adiciona modalidade



Operand2

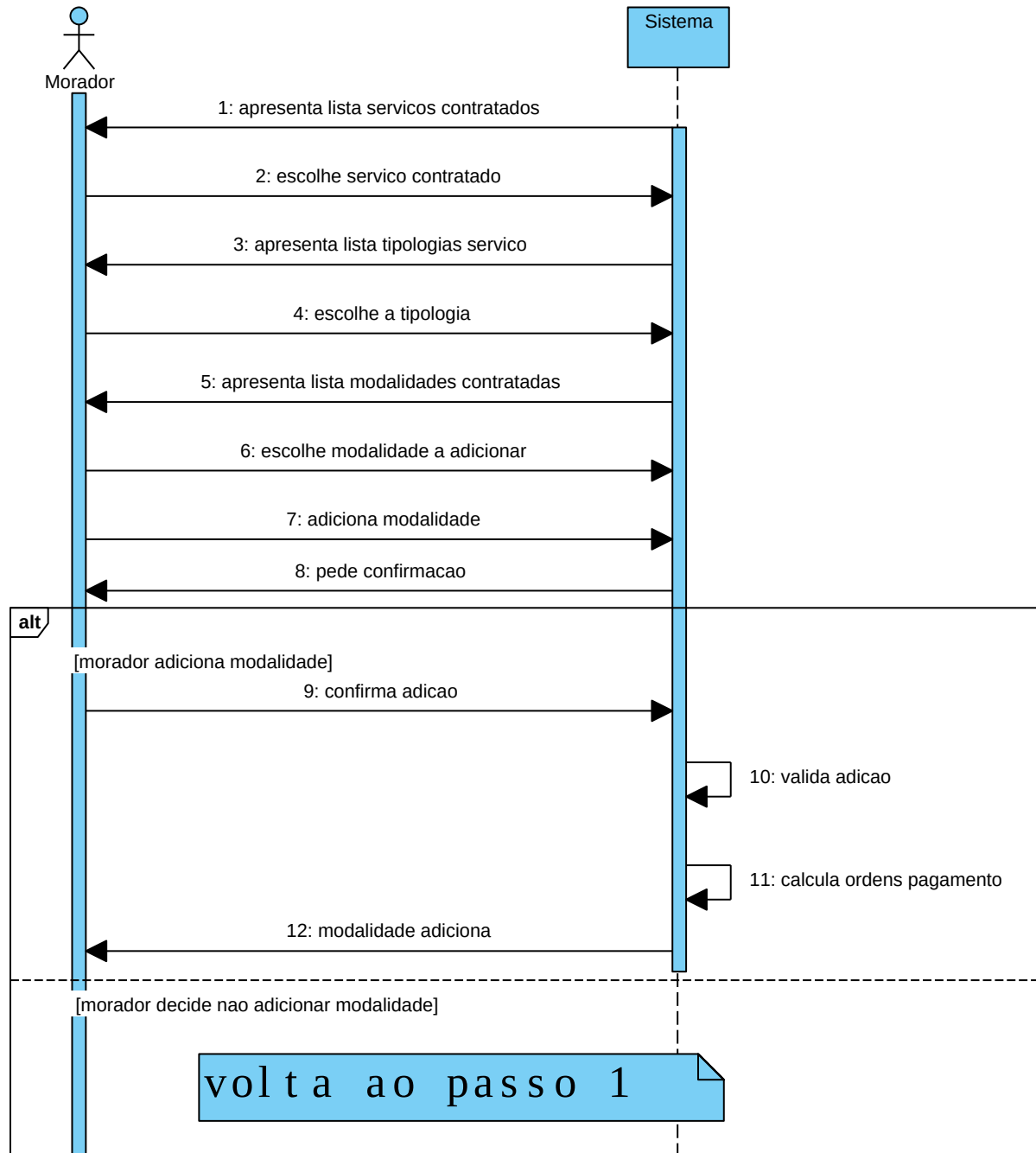
Name	Value	
Guard	Name	Value
	Constraint	morador decide nao adicionar modalidade

 **N/A**

Name	Value
Documentation	volta ao passo 1

Sequence Diagram

Adicionar modalidade - DS Sistema - passo1



Summary

Name	Documentation
 Sistema	
 Morador	

 morador adiciona modalidade	
 Operand	
 Operand2	
 N/A	volta ao passo 1

Details

Sistema

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresenta lista servicos contratados : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	1	
Asynchronous	false	

escolhe servico contratado : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresenta lista tipologias servico : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	3	
Asynchronous	false	

escolhe a tipologia : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	5	
Asynchronous	false	

escolhe modalidade a adicionar : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	6	
Asynchronous	false	

adiciona modalidade : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	7	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	8	
Asynchronous	false	

confirma adicao : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	9	
Asynchronous	false	

valida adicao : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	10	
Asynchronous	false	

valida adicao : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	10	
Asynchronous	false	

calcula ordens pagamento : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	11	
Asynchronous	false	

calcula ordens pagamento : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	11	
Asynchronous	false	

modalidade adiciona : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	12	
Asynchronous	false	

Morador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false
Referenced Actor	 Morador

Relationships

apresenta lista servicos contratados : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	1	
Asynchronous	false	

escolhe servico contratado : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresenta lista tipologias servico : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	3	
Asynchronous	false	

escolhe a tipologia : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	5	
Asynchronous	false	

escolhe modalidade a adicionar : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	6	
Asynchronous	false	

adiciona modalidade : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	7	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	8	
Asynchronous	false	

confirma adicao : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	9	
Asynchronous	false	

modalidade adiciona : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	12	
Asynchronous	false	



morador adiciona modalidade

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand
Operand2

Covered LifeLines

Name	Documentation
 Morador	
 Sistema	



Operand

Name	Value	
Guard	Name	Value
	Constraint	morador adiciona modalidade



Operand2

Name	Value	
Guard	Name	Value
	Constraint	morador decide nao adicionar modalidade

Children

Name	Documentation
 N/A	volta ao passo 1



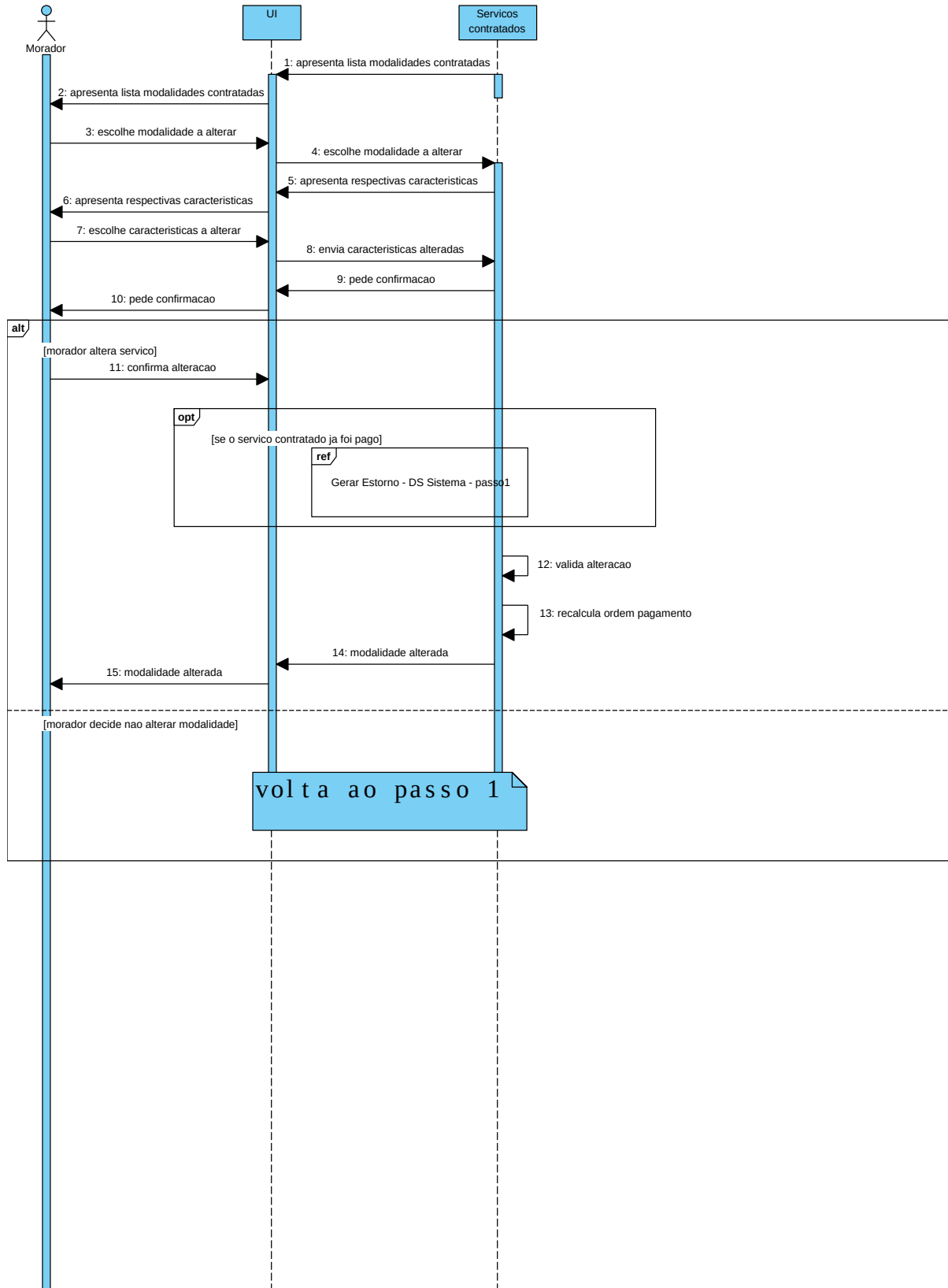
N/A

Name	Value
Documentation	volta ao passo 1

Sequence Diagram

Alterar modalidade contratada - DS

Implementação - passo3



Summary

Name	Documentation
 Morador	
 UI	
 Servicos contratados	
 morador altera servico	
 Operand	
 se o servico contratado ja foi pago	
 Operand2	
 N/A	volta ao passo 1
 Operand	
 InteractionUse	

Details



Morador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	2	
Asynchronous	false	

escolhe modalidade a alterar : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	3	
Asynchronous	false	

apresenta respectivas características : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	6	
Asynchronous	false	

escolhe características a alterar : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	7	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	10	
Asynchronous	false	

confirma alteracao : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	11	
Asynchronous	false	

modalidade alterada : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	15	
Asynchronous	false	



Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	1	
Asynchronous	false	

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	2	
Asynchronous	false	

escolhe modalidade a alterar : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	3	
Asynchronous	false	

escolhe modalidade a alterar : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Message	
Sequence Number	4	
Asynchronous	false	

apresenta respectivas caracteristicas : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	5	
Asynchronous	false	

apresenta respectivas caracteristicas : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	6	
Asynchronous	false	

escolhe características a alterar : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	7	
Asynchronous	false	

envia características alteradas : Message		
To	Name	Value
	End Model Element	 Serviços contratados
Type	Message	
Sequence Number	8	
Asynchronous	false	

pede confirmação : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	9	
Asynchronous	false	

pede confirmação : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	10	
Asynchronous	false	

confirma alteração : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	11	
Asynchronous	false	

modalidade alterada : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	14	
Asynchronous	false	

modalidade alterada : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	15	
Asynchronous	false	

Servicos contratados

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	1	
Asynchronous	false	

escolhe modalidade a alterar : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Message	
Sequence Number	4	
Asynchronous	false	

apresenta respectivas caracteristicas : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	5	
Asynchronous	false	

envia características alteradas : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Message	
Sequence Number	8	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	9	
Asynchronous	false	

valida alteracao : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Self Message	
Sequence Number	12	
Asynchronous	false	

valida alteracao : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Self Message	
Sequence Number	12	
Asynchronous	false	

recalcula ordem pagamento : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Self Message	
Sequence Number	13	
Asynchronous	false	

recalcula ordem pagamento : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Self Message	
Sequence Number	13	
Asynchronous	false	

modalidade alterada : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	14	
Asynchronous	false	

morador altera servico

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand
Operand2

Covered LifeLines

Name	Documentation
 Morador	
 UI	
 Servicos contratados	

Operand

Name	Value	
Guard	Name	Value
	Constraint	morador altera servico

Children

Name	Documentation
 se o servico contratado ja foi pago	

se o servico contratado ja foi pago

Name	Value
Interaction Operator	opt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 UI	
 Servicos contratados	

Operand2

Name	Value	
Guard	Name	Value
	Constraint	morador decide nao alterar modalidade

Children

Name	Documentation
 N/A	volta ao passo 1

N/A

Name	Value
Documentation	volta ao passo 1

Operand

Name	Value	
Guard	Name	Value
	Constraint	se o servico contratado ja foi pago

Children

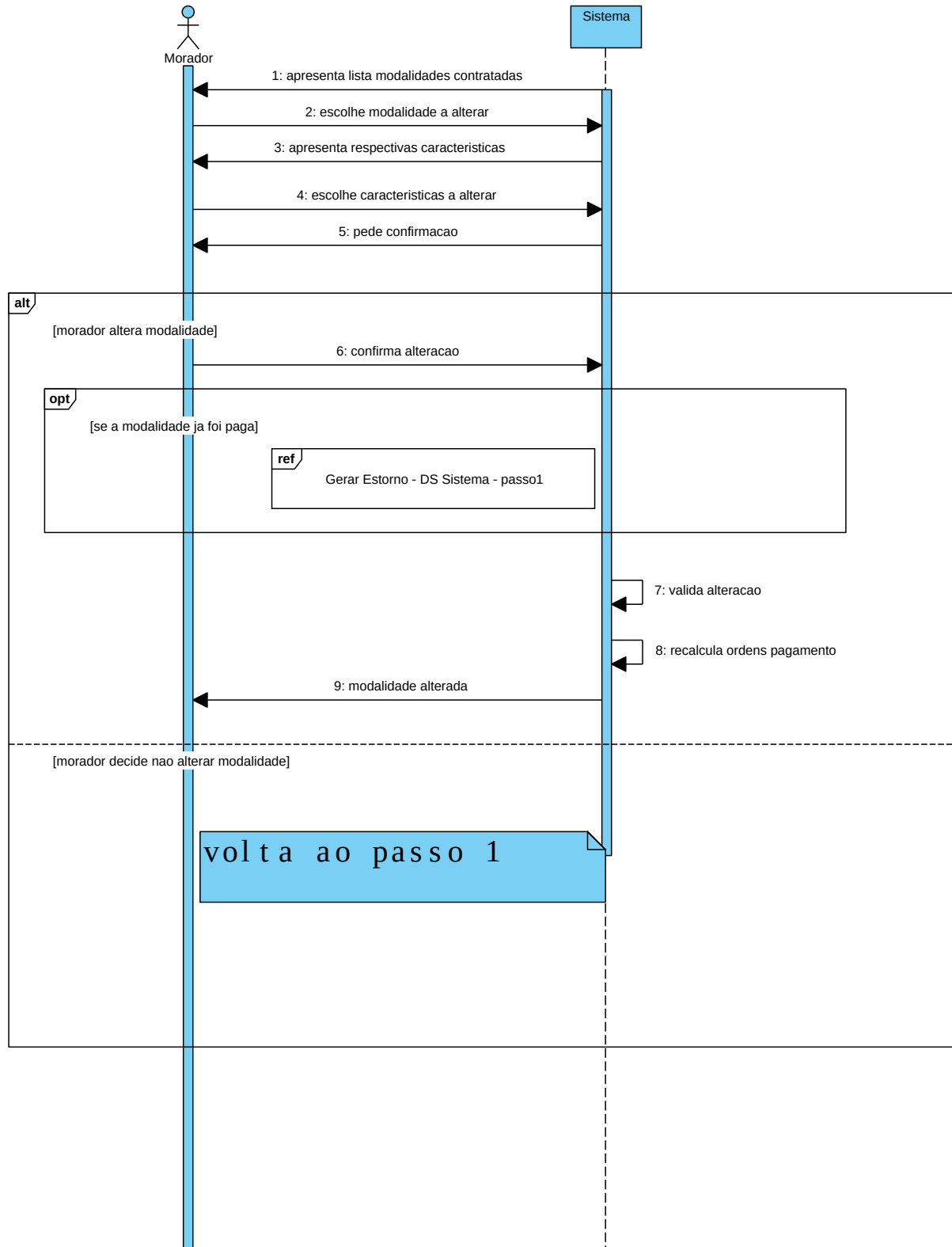
Name	Documentation
 InteractionUse	

InteractionUse

Name	Value
Refers To	 Gerar Estorno - DS Sistema - passo1

Sequence Diagram

Alterar modalidade contratada - DS Sistema - passo1



Summary

Name	Documentation
 Morador	
 Sistema	
 morador altera modalidade	
 Operand	
 se a modalidade ja foi paga	
 Operand2	
 N/A	volta ao passo 1
 Operand	
 InteractionUse	

Details



Morador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false
Referenced Actor	 Morador

Relationships

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	1	
Asynchronous	false	

escolhe modalidade a alterar : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresenta respectivas características : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	3	
Asynchronous	false	

escolhe características a alterar : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	5	
Asynchronous	false	

confirma alteracao : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	6	
Asynchronous	false	

modalidade alterada : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	9	
Asynchronous	false	



Sistema

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	1	
Asynchronous	false	

escolhe modalidade a alterar : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresenta respectivas características : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	3	
Asynchronous	false	

escolhe características a alterar : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	5	
Asynchronous	false	

confirma alteracao : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	6	
Asynchronous	false	

valida alteracao : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	7	
Asynchronous	false	

valida alteracao : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	7	
Asynchronous	false	

recalcula ordens pagamento : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	8	
Asynchronous	false	

recalcula ordens pagamento : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	8	
Asynchronous	false	

modalidade alterada : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	9	
Asynchronous	false	

morador altera modalidade

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand
Operand2

Covered LifeLines

Name	Documentation
 Morador	
 Sistema	



Operand

Name	Value	
Guard	Name	Value
	Constraint	morador altera modalidade

Children

Name	Documentation
 se a modalidade ja foi paga	



se a modalidade ja foi paga

Name	Value
Interaction Operator	opt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Morador	
 Sistema	



Operand2

Name	Value	
Guard	Name	Value
	Constraint	morador decide nao alterar modalidade

Children

Name	Documentation
 N/A	volta ao passo 1

N/A

Name	Value
Documentation	volta ao passo 1

Operand

Name	Value	
Guard	Name	Value
	Constraint	se a modalidade ja foi paga

Children

Name	Documentation
 InteractionUse	

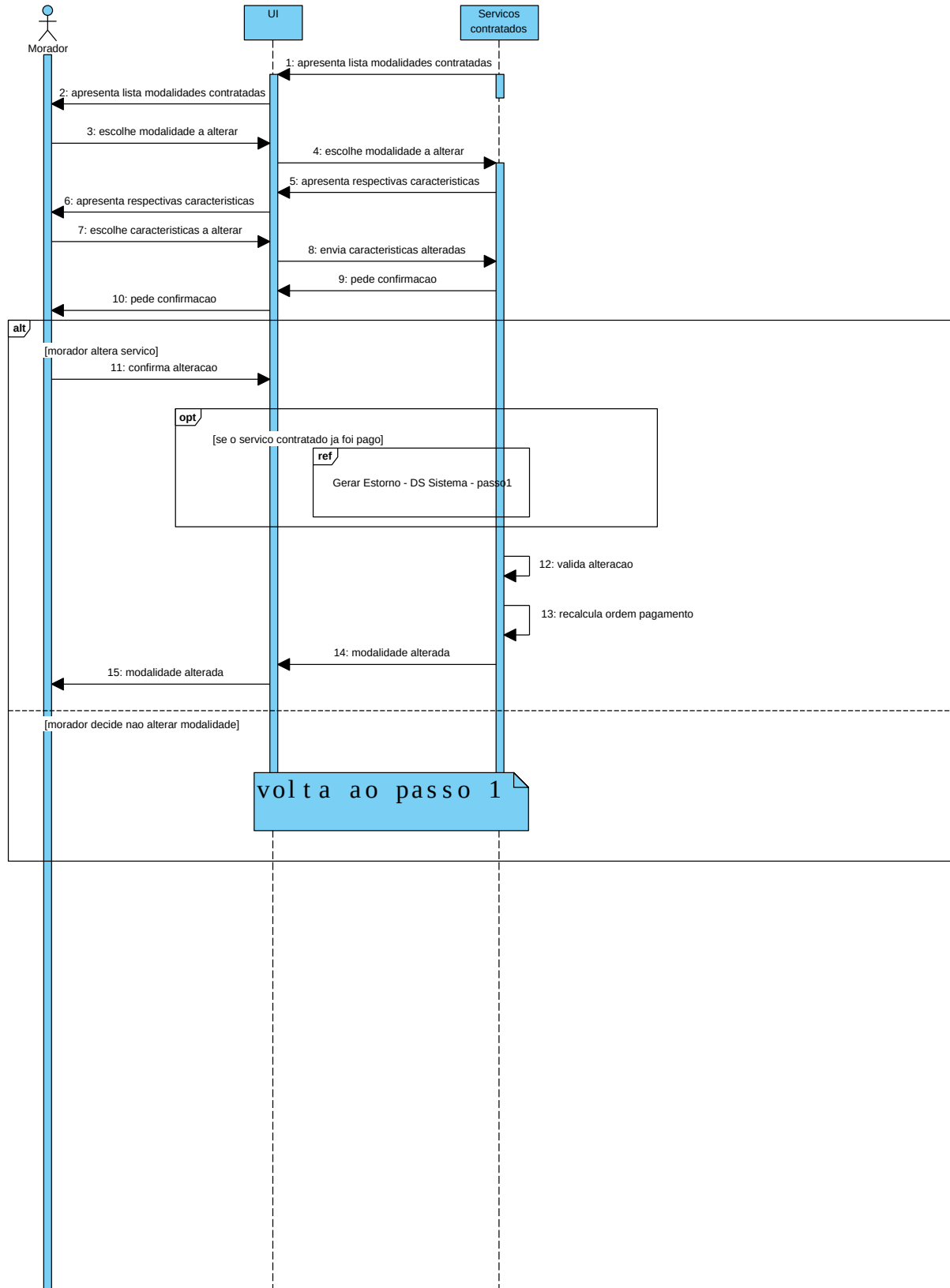
InteractionUse

Name	Value
Refers To	 Gerar Estorno - DS Sistema - passo1

Sequence Diagram

Alterar modalidade contratada - DS

Subsistemas - passo2



Summary

Name	Documentation
 Servicos contratados	
 UI	
 Morador	
 morador altera servico	
 Operand	
 se o servico contratado ja foi pago	
 Operand2	
 N/A	volta ao passo 1
 Operand	
 InteractionUse	

Details

Servicos contratados

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	1	
Asynchronous	false	

escolhe modalidade a alterar : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Message	
Sequence Number	4	
Asynchronous	false	

apresenta respectivas características : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	5	
Asynchronous	false	

envia características alteradas : Message		
To	Name	Value
	End Model Element	 Serviços contratados
Type	Message	
Sequence Number	8	
Asynchronous	false	

pede confirmação : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	9	
Asynchronous	false	

valida alteração : Message		
To	Name	Value
	End Model Element	 Serviços contratados
Type	Self Message	
Sequence Number	12	
Asynchronous	false	

valida alteração : Message		
To	Name	Value
	End Model Element	 Serviços contratados
Type	Self Message	
Sequence Number	12	
Asynchronous	false	

recalcula ordem pagamento : Message		
To	Name	Value
	End Model Element	 Serviços contratados
Type	Self Message	
Sequence Number	13	
Asynchronous	false	

recalcula ordem pagamento : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Self Message	
Sequence Number	13	
Asynchronous	false	

modalidade alterada : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	14	
Asynchronous	false	



UI

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	1	
Asynchronous	false	

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	2	
Asynchronous	false	

escolhe modalidade a alterar : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	3	
Asynchronous	false	

escolhe modalidade a alterar : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Message	
Sequence Number	4	
Asynchronous	false	

apresenta respectivas características : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	5	
Asynchronous	false	

apresenta respectivas características : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	6	
Asynchronous	false	

escolhe características a alterar : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	7	
Asynchronous	false	

envia características alteradas : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Message	
Sequence Number	8	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	9	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	10	
Asynchronous	false	

confirma alteracao : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	11	
Asynchronous	false	

modalidade alterada : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	14	
Asynchronous	false	

modalidade alterada : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	15	
Asynchronous	false	



Morador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	2	
Asynchronous	false	

escolhe modalidade a alterar : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	3	
Asynchronous	false	

apresenta respectivas características : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	6	
Asynchronous	false	

escolhe características a alterar : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	7	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	10	
Asynchronous	false	

confirma alteracao : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	11	
Asynchronous	false	

modalidade alterada : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	15	
Asynchronous	false	

morador altera servico

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand
Operand2

Covered LifeLines

Name	Documentation
 Morador	
 UI	
 Servicos contratados	

Operand

Name	Value	
Guard	Name	Value
	Constraint	morador altera servico

Children

Name	Documentation
 se o servico contratado ja foi pago	

se o servico contratado ja foi pago

Name	Value
Interaction Operator	opt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 UI	
 Servicos contratados	

Operand2

Name	Value	
Guard	Name	Value
	Constraint	morador decide nao alterar modalidade

Children

Name	Documentation
 N/A	volta ao passo 1

N/A

Name	Value
Documentation	volta ao passo 1

Operand

Name	Value	
Guard	Name	Value
	Constraint	se o servico contratado ja foi pago

Children

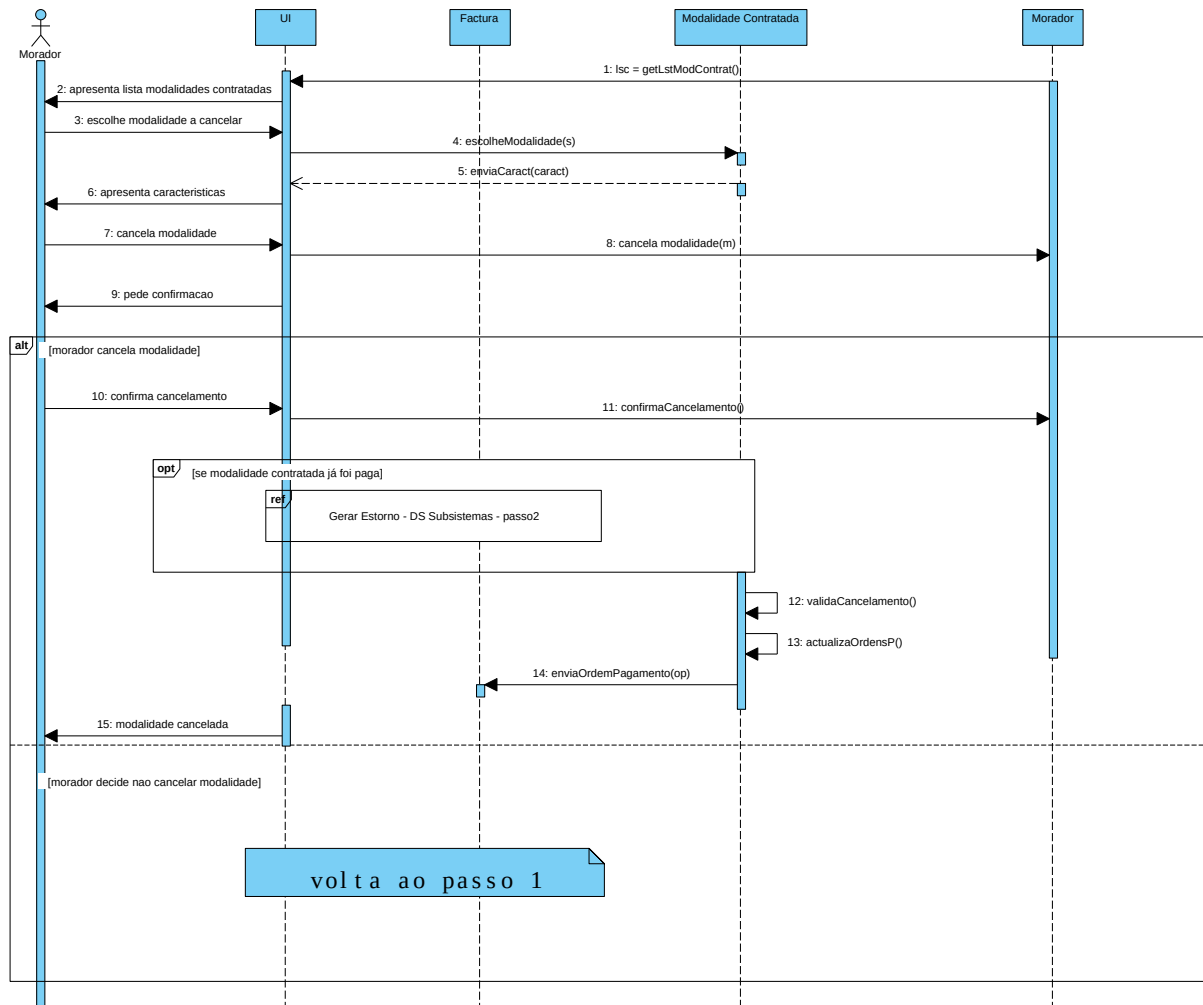
Name	Documentation
 InteractionUse	

InteractionUse

Name	Value
Refers To	 Gerar Estorno - DS Sistema - passo1

Sequence Diagram

Cancelar modalidade contratada - DS Implementação - passo3



Summary

Name	Documentation
 Morador	
 UI	
 Modalidade Contratada	
 Morador	
 Factura	
 morador cancela modalidade	
 Operand	
 se modalidade contratada já foi paga	

 Operand2	
 N/A	volta ao passo 1
 Operand	
 InteractionUse	

Details



Morador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	2	
Asynchronous	false	

escolhe modalidade a cancelar : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	3	
Asynchronous	false	

apresenta características : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	6	
Asynchronous	false	

cancela modalidade : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	7	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	9	
Asynchronous	false	

confirma cancelamento : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	10	
Asynchronous	false	

modalidade cancelada : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	15	
Asynchronous	false	



UI

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

Isc = getLstModContrat() : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	1	
Asynchronous	false	

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	2	
Asynchronous	false	

escolhe modalidade a cancelar : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	3	
Asynchronous	false	

escolheModalidade(s) : Message		
To	Name	Value
	End Model Element	 Modalidade Contratada
Type	Message	
Sequence Number	4	
Asynchronous	false	

enviaCaract(caract) : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	5	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

apresenta características : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	6	
Asynchronous	false	

cancela modalidade : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	7	
Asynchronous	false	

cancela modalidade(m) : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	8	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	9	
Asynchronous	false	

confirma cancelamento : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	10	
Asynchronous	false	

confirmaCancelamento() : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	11	
Asynchronous	false	

modalidade cancelada : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	15	
Asynchronous	false	

Modalidade Contratada

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

escolheModalidade(s) : Message		
To	Name	Value
	End Model Element	 Modalidade Contratada
Type	Message	
Sequence Number	4	
Asynchronous	false	

enviaCaract(caract) : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	5	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

validaCancelamento() : Message		
To	Name	Value
	End Model Element	 Modalidade Contratada
Type	Self Message	
Sequence Number	12	
Asynchronous	false	

validaCancelamento() : Message		
To	Name	Value
	End Model Element	 Modalidade Contratada
Type	Self Message	
Sequence Number	12	
Asynchronous	false	

actualizaOrdensP() : Message		
To	Name	Value
	End Model Element	 Modalidade Contratada
Type	Self Message	
Sequence Number	13	
Asynchronous	false	

actualizaOrdensP() : Message		
To	Name	Value
	End Model Element	 Modalidade Contratada
Type	Self Message	
Sequence Number	13	
Asynchronous	false	

enviaOrdemPagamento(op) : Message		
To	Name	Value
	End Model Element	 Factura
Type	Message	
Sequence Number	14	
Asynchronous	false	



Morador

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

Isc = getLstModContrat() : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	1	
Asynchronous	false	

cancela modalidade(m) : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	8	
Asynchronous	false	

confirmaCancelamento() : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	11	
Asynchronous	false	



Factura

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

enviaOrdemPagamento(op) : Message		
To	Name	Value
	End Model Element	 Factura
Type	Message	
Sequence Number	14	
Asynchronous	false	



morador cancela modalidade

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand
Operand2

Covered LifeLines

Name	Documentation
 UI	
 Morador	
 Fatura	
 Morador	
 Modalidade Contratada	



Operand

Name	Value	
Guard	Name	Value
	Constraint	morador cancela modalidade

Children

Name	Documentation
 se modalidade contratada já foi paga	



se modalidade contratada já foi paga

Name	Value
Interaction Operator	opt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 UI	



Operand2

Name	Value	
Guard	Name	Value
	Constraint	morador decide nao cancelar modalidade

Children

Name	Documentation
 N/A	volta ao passo 1

N/A

Name	Value
Documentation	volta ao passo 1

Operand

Name	Value	
Guard	Name	Value
	Constraint	se modalidade contratada já foi paga

Children

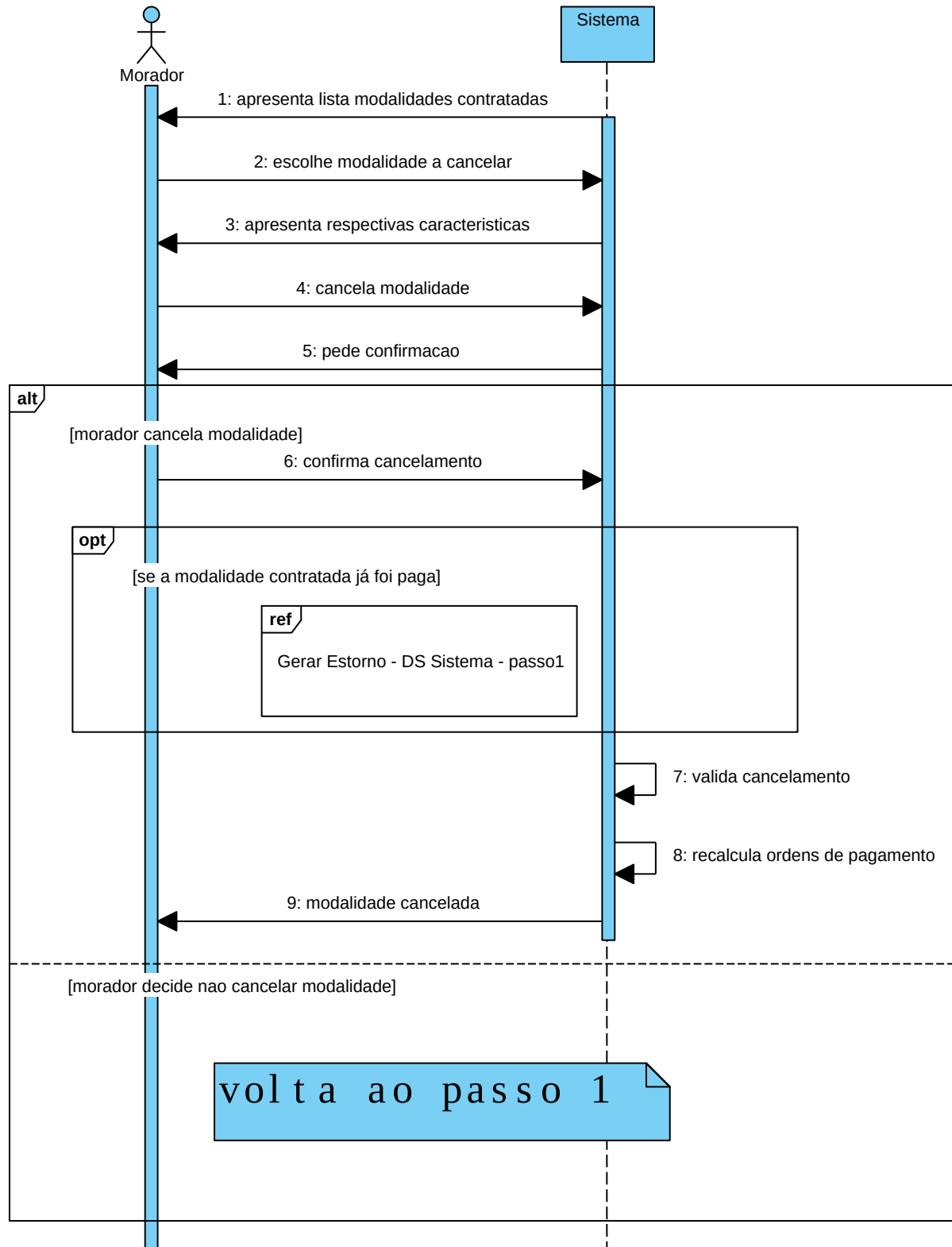
Name	Documentation
 InteractionUse	

InteractionUse

Name	Value
Refers To	 Gerar Estorno - DS Subsistemas - passo2

Sequence Diagram

Cancelar modalidade contratada - DS Sistema - passo1



Summary

Name	Documentation
 Sistema	
 Morador	
 morador cancela modalidade	
 Operand	
 se a modalidade contratada já foi paga	
 Operand2	
 N/A	volta ao passo 1
 Operand	
 InteractionUse	

Details

Sistema

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	1	
Asynchronous	false	

escolhe modalidade a cancelar : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresenta respectivas características : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	3	
Asynchronous	false	

cancela modalidade : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	5	
Asynchronous	false	

confirma cancelamento : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	6	
Asynchronous	false	

valida cancelamento : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	7	
Asynchronous	false	

valida cancelamento : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	7	
Asynchronous	false	

recalcula ordens de pagamento : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	8	
Asynchronous	false	

recalcula ordens de pagamento : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	8	
Asynchronous	false	

modalidade cancelada : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	9	
Asynchronous	false	

Morador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false
Referenced Actor	 Morador

Relationships

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	1	
Asynchronous	false	

escolhe modalidade a cancelar : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresenta respectivas características : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	3	
Asynchronous	false	

cancela modalidade : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	5	
Asynchronous	false	

confirma cancelamento : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	6	
Asynchronous	false	

modalidade cancelada : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	9	
Asynchronous	false	

morador cancela modalidade

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand
Operand2

Covered LifeLines

Name	Documentation
 Morador	
 Sistema	

Operand

Name	Value	
Guard	Name	Value
	Constraint	morador cancela modalidade

Children

Name	Documentation
 se a modalidade contratada já foi paga	

se a modalidade contratada já foi paga

Name	Value
Interaction Operator	opt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Morador	
 Sistema	

Operand2

Name	Value	
Guard	Name	Value
	Constraint	morador decide nao cancelar modalidade

Children

Name	Documentation
 N/A	volta ao passo 1

N/A

Name	Value
Documentation	volta ao passo 1

Operand

Name	Value	
Guard	Name	Value
	Constraint	se a modalidade contratada já foi paga

Children

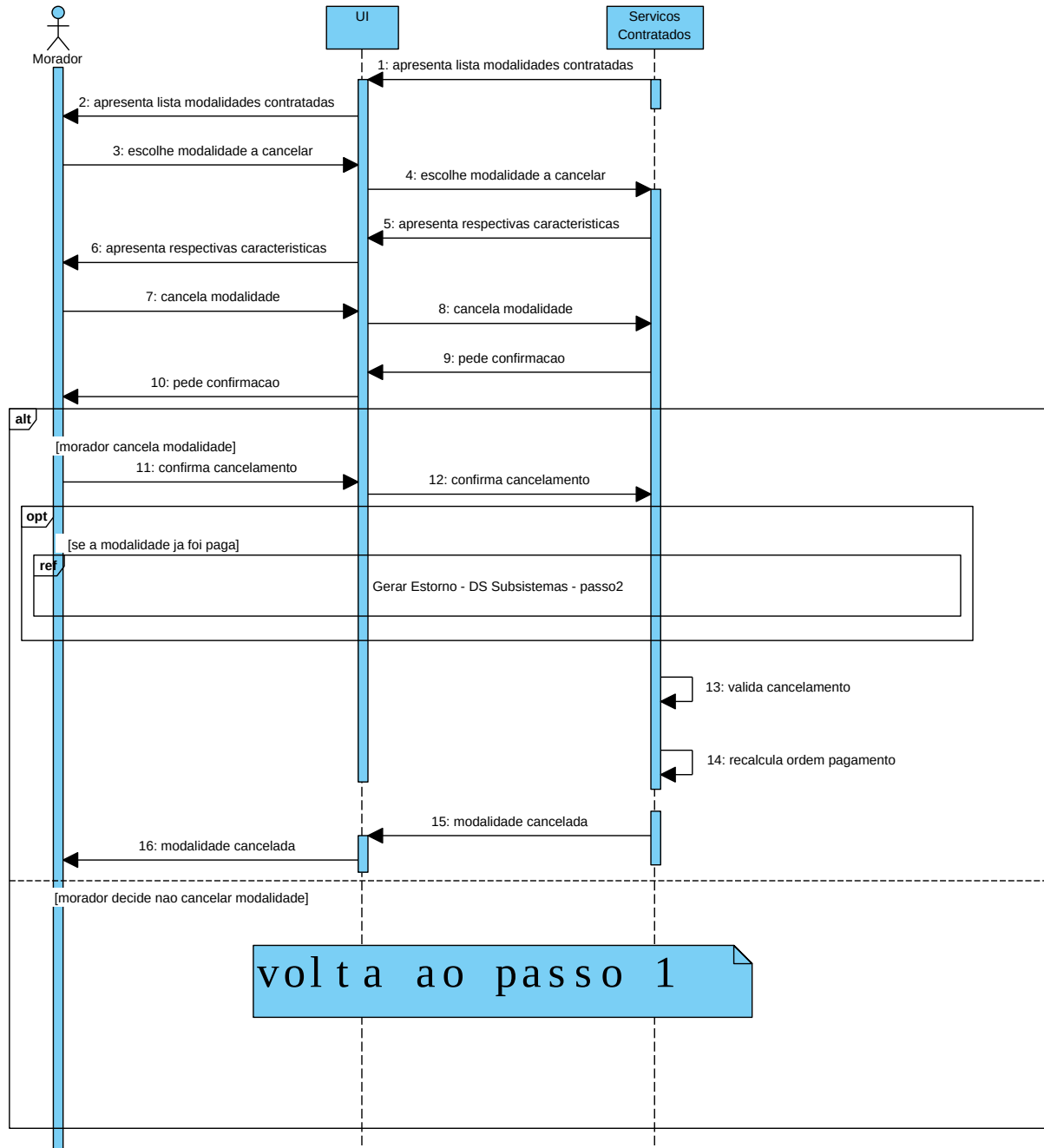
Name	Documentation
 InteractionUse	

InteractionUse

Name	Value
Refers To	 Gerar Estorno - DS Sistema - passo1

Sequence Diagram

Cancelar modalidade contratada - DS Subsistemas - passo2



Summary

Name	Documentation
 Servicos Contratados	
 UI	
 Morador	

 morador cancela modalidade	
 Operand	
 Operand2	
 N/A	volta ao passo 1
 se a modalidade ja foi paga	
 Operand	
 InteractionUse	

Details

Servicos Contratados

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	1	
Asynchronous	false	

escolhe modalidade a cancelar : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Message	
Sequence Number	4	
Asynchronous	false	

apresenta respectivas caracteristicas : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	5	
Asynchronous	false	

cancela modalidade : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Message	
Sequence Number	8	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	9	
Asynchronous	false	

confirma cancelamento : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Message	
Sequence Number	12	
Asynchronous	false	

valida cancelamento : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Self Message	
Sequence Number	13	
Asynchronous	false	

valida cancelamento : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Self Message	
Sequence Number	13	
Asynchronous	false	

recalcula ordem pagamento : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Self Message	
Sequence Number	14	
Asynchronous	false	

recalcula ordem pagamento : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Self Message	
Sequence Number	14	
Asynchronous	false	

modalidade cancelada : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	15	
Asynchronous	false	



UI

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	1	
Asynchronous	false	

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	2	
Asynchronous	false	

escolhe modalidade a cancelar : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	3	
Asynchronous	false	

escolhe modalidade a cancelar : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Message	
Sequence Number	4	
Asynchronous	false	

apresenta respectivas características : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	5	
Asynchronous	false	

apresenta respectivas características : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	6	
Asynchronous	false	

cancela modalidade : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	7	
Asynchronous	false	

cancela modalidade : Message		
To	Name	Value
	End Model Element	 Servicos Contratados
Type	Message	
Sequence Number	8	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	9	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	10	
Asynchronous	false	

confirma cancelamento : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	11	
Asynchronous	false	

confirma cancelamento : Message		
To	Name	Value
	End Model Element	 Servicos Contratos
Type	Message	
Sequence Number	12	
Asynchronous	false	

modalidade cancelada : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	15	
Asynchronous	false	

modalidade cancelada : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	16	
Asynchronous	false	

Morador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	2	
Asynchronous	false	

escolhe modalidade a cancelar : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	3	
Asynchronous	false	

apresenta respectivas características : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	6	
Asynchronous	false	

cancela modalidade : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	7	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	10	
Asynchronous	false	

confirma cancelamento : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	11	
Asynchronous	false	

modalidade cancelada : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	16	
Asynchronous	false	

morador cancela modalidade

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand
Operand2

Covered LifeLines

Name	Documentation
 Morador	
 UI	
 Servicos Contratados	

Operand

Name	Value	
Guard	Name	Value
	Constraint	morador cancela modalidade

Operand2

Name	Value	
Guard	Name	Value
	Constraint	morador decide nao cancelar modalidade

Children

Name	Documentation
 N/A	volta ao passo 1

N/A

Name	Value
Documentation	volta ao passo 1

se a modalidade ja foi paga

Name	Value
Interaction Operator	opt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Morador	
 UI	
 Servicos Contratados	

Operand

Name	Value	
Guard	Name	Value
	Constraint	se a modalidade ja foi paga

Children

Name	Documentation
 InteractionUse	

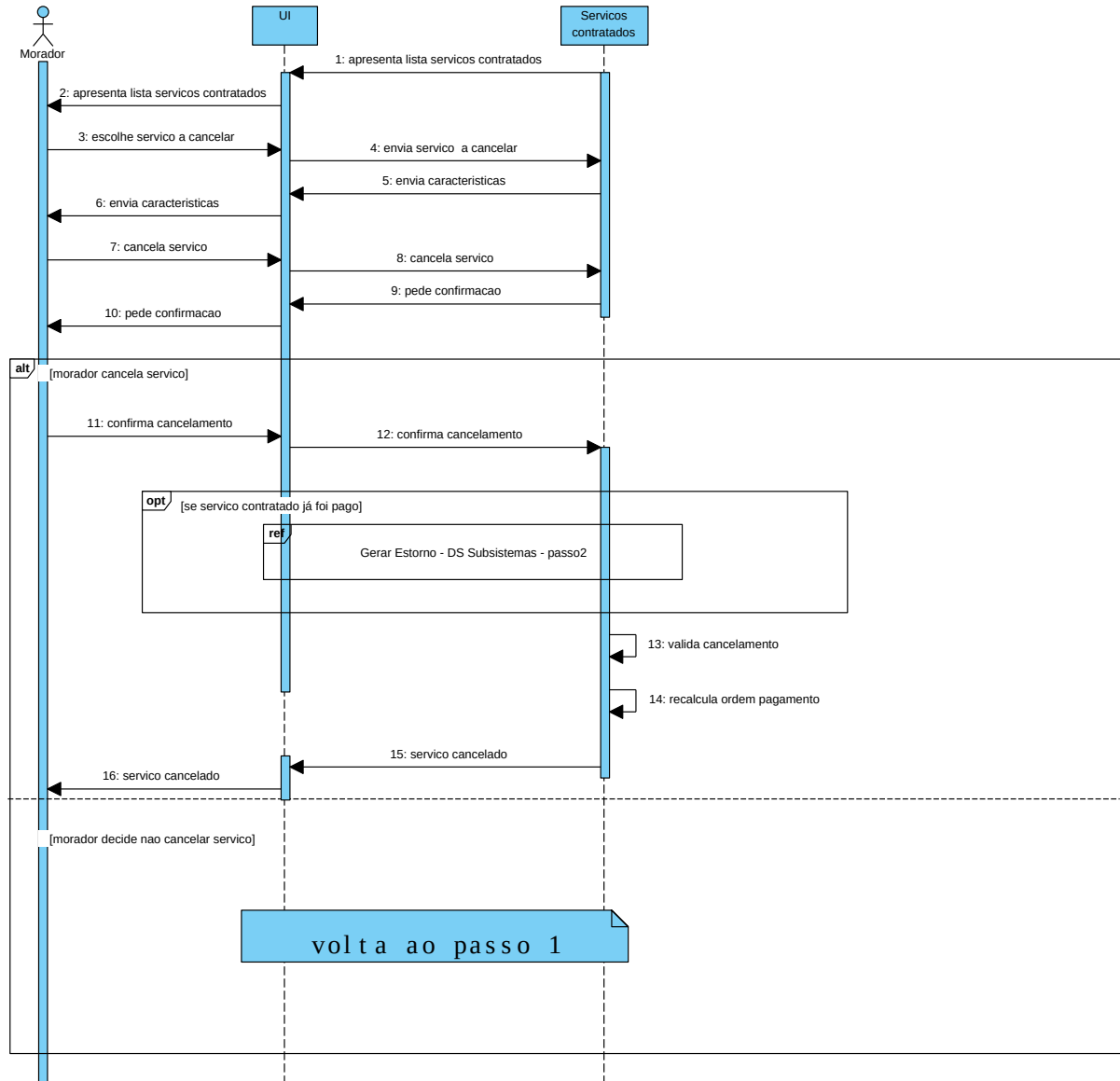
InteractionUse

Name	Value
Refers To	 Gerar Estorno - DS Subsistemas - passo2

Sequence Diagram

Cancelar serviço contratado - DS

Implementação - passo3



Summary

Name	Documentation
 Servicos contratados	
 UI	
 Morador	
 morador cancela servico	
 Operand	
 se servico contratado já foi pago	

 Operand2	
 N/A	volta ao passo 1
 Operand	
 InteractionUse	

Details

Servicos contratados

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresenta lista servicos contratados : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	1	
Asynchronous	false	

envia servico a cancelar : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Message	
Sequence Number	4	
Asynchronous	false	

envia caracteristicas : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	5	
Asynchronous	false	

cancela servico : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Message	
Sequence Number	8	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	9	
Asynchronous	false	

confirma cancelamento : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Message	
Sequence Number	12	
Asynchronous	false	

valida cancelamento : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Self Message	
Sequence Number	13	
Asynchronous	false	

valida cancelamento : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Self Message	
Sequence Number	13	
Asynchronous	false	

recalcula ordem pagamento : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Self Message	
Sequence Number	14	
Asynchronous	false	

recalcula ordem pagamento : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Self Message	
Sequence Number	14	
Asynchronous	false	

servico cancelado : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	15	
Asynchronous	false	



UI

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresenta lista servicos contratados : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	1	
Asynchronous	false	

apresenta lista servicos contratados : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	2	
Asynchronous	false	

escolhe servico a cancelar : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	3	
Asynchronous	false	

envia servico a cancelar : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Message	
Sequence Number	4	
Asynchronous	false	

envia caracteristicas : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	5	
Asynchronous	false	

envia caracteristicas : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	6	
Asynchronous	false	

cancela servico : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	7	
Asynchronous	false	

cancela servico : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Message	
Sequence Number	8	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	9	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	10	
Asynchronous	false	

confirma cancelamento : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	11	
Asynchronous	false	

confirma cancelamento : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Message	
Sequence Number	12	
Asynchronous	false	

servico cancelado : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	15	
Asynchronous	false	

servico cancelado : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	16	
Asynchronous	false	



Morador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresenta lista servicos contratados : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	2	
Asynchronous	false	

escolhe servico a cancelar : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	3	
Asynchronous	false	

envia caracteristicas : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	6	
Asynchronous	false	

cancela servico : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	7	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	10	
Asynchronous	false	

confirma cancelamento : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	11	
Asynchronous	false	

servico cancelado : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	16	
Asynchronous	false	

morador cancela servico

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand
Operand2

Covered LifeLines

Name	Documentation
 Servicos contratados	
 UI	
 Morador	

Operand

Name	Value	
Guard	Name	Value
	Constraint	morador cancela servico

Children

Name	Documentation
 se servico contratado já foi pago	

se servico contratado já foi pago

Name	Value
Interaction Operator	opt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Servicos contratados	
 UI	

Operand2

Name	Value	
Guard	Name	Value
	Constraint	morador decide nao cancelar servico

Children

Name	Documentation
 N/A	volta ao passo 1

N/A

Name	Value
Documentation	volta ao passo 1

Operand

Name	Value	
Guard	Name	Value
	Constraint	se servico contratado já foi pago

Children

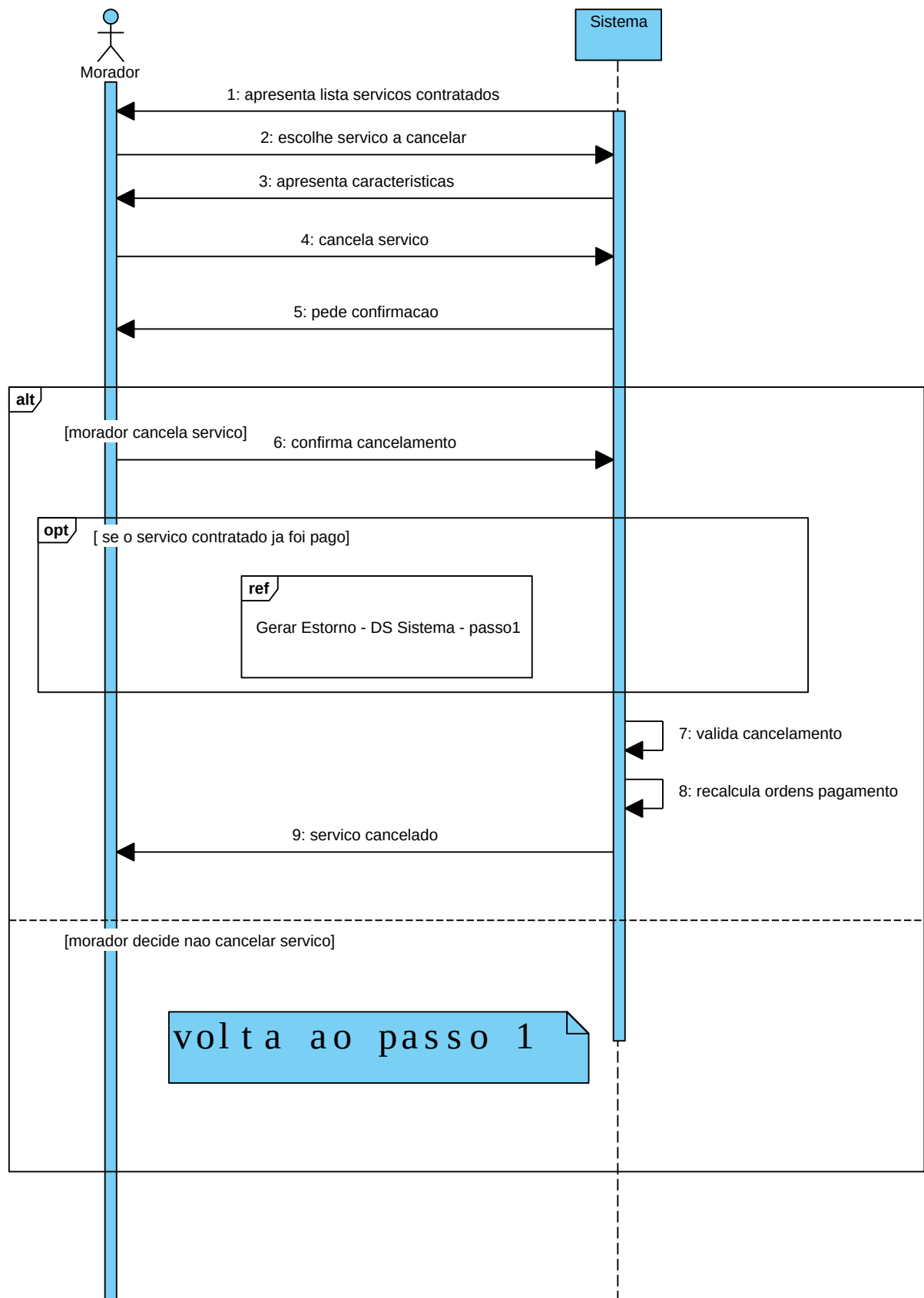
Name	Documentation
 InteractionUse	

InteractionUse

Name	Value
Refers To	 Gerar Estorno - DS Subsistemas - passo2

Sequence Diagram

Cancelar serviço contratado - DS Sistema - passo1



Summary

Name	Documentation
 Sistema	
 Morador	
 se o servico contratado ja foi pago	
 Operand	
 morador cancela servico	
 Operand	
 InteractionUse	
 Operand2	
 N/A	volta ao passo 1

Details

Sistema

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresenta lista servicos contratados : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	1	
Asynchronous	false	

escolhe servico a cancelar : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresenta características : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	3	
Asynchronous	false	

cancela servico : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	5	
Asynchronous	false	

confirma cancelamento : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	6	
Asynchronous	false	

valida cancelamento : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	7	
Asynchronous	false	

valida cancelamento : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	7	
Asynchronous	false	

recalcula ordens pagamento : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	8	
Asynchronous	false	

recalcula ordens pagamento : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	8	
Asynchronous	false	

servico cancelado : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	9	
Asynchronous	false	

Morador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false
Referenced Actor	 Morador

Relationships

apresenta lista servicos contratados : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	1	
Asynchronous	false	

escolhe servico a cancelar : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresenta caracteristicas : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	3	
Asynchronous	false	

cancela servico : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	5	
Asynchronous	false	

confirma cancelamento : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	6	
Asynchronous	false	

servico cancelado : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	9	
Asynchronous	false	



se o servico contratado ja foi pago

Name	Value
Interaction Operator	opt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Morador	
 Sistema	



Operand

Name	Value	
Guard	Name	Value
	Constraint	se o servico contratado ja foi pago



morador cancela servico

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand
Operand2

Covered LifeLines

Name	Documentation
 Morador	
 Sistema	



Operand

Name	Value	
Guard	Name	Value
	Constraint	morador cancela servico

Children

Name	Documentation
 InteractionUse	
 se o servico contratado ja foi pago	

InteractionUse

Name	Value
Refers To	 Gerar Estorno - DS Sistema - passo1

Operand2

Name	Value	
Guard	Name	Value
	Constraint	morador decide nao cancelar servico

Children

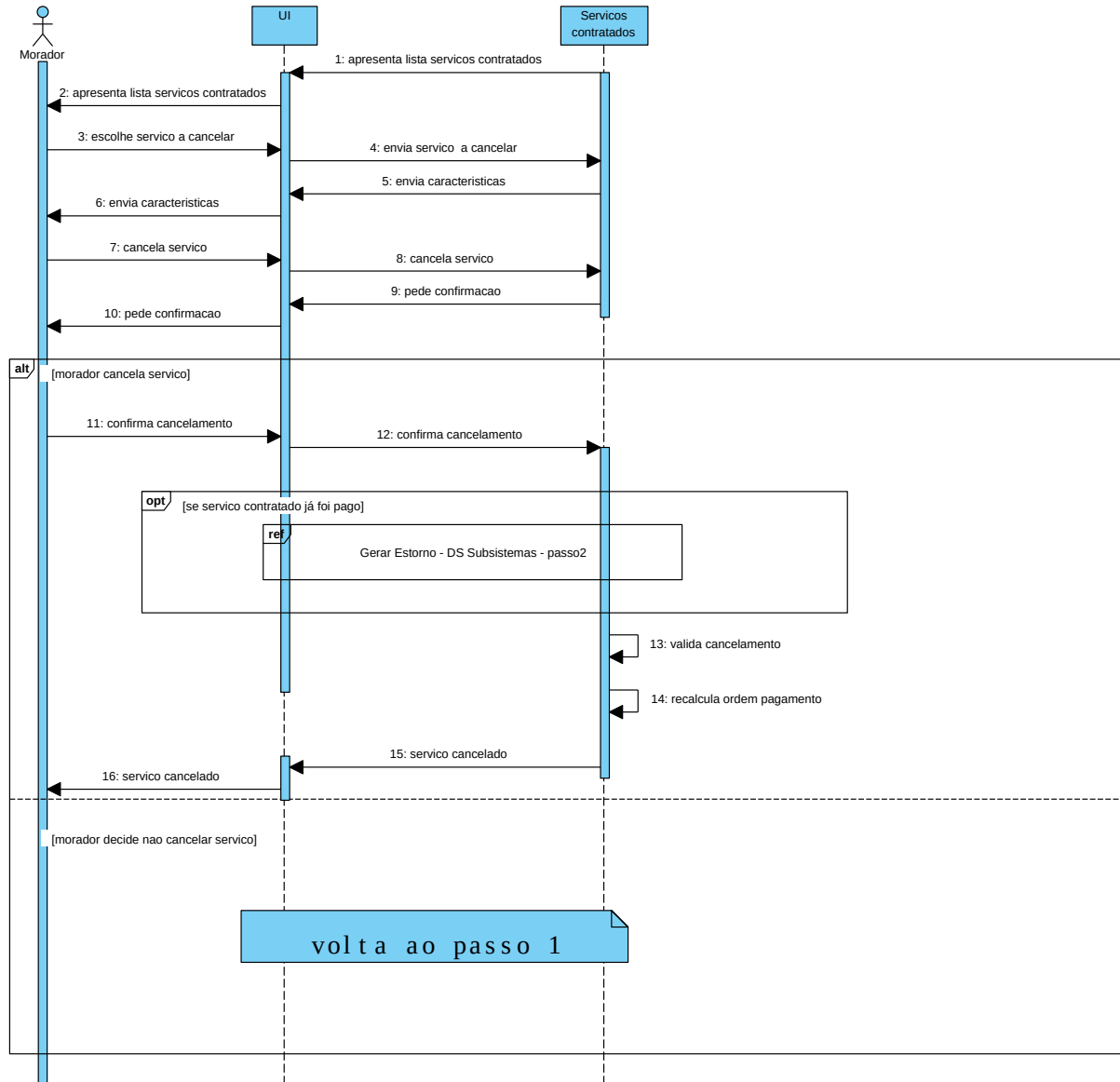
Name	Documentation
 N/A	volta ao passo 1

N/A

Name	Value
Documentation	volta ao passo 1

Sequence Diagram

Cancelar serviço contratado - DS Subsistemas - passo2



Summary

Name	Documentation
 Servicos contratados	
 UI	
 Morador	
 morador cancela servico	
 Operand	
 se servico contratado já foi pago	

 Operand2	
 N/A	volta ao passo 1
 Operand	
 InteractionUse	

Details

Servicos contratados

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresenta lista servicos contratados : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	1	
Asynchronous	false	

envia servico a cancelar : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Message	
Sequence Number	4	
Asynchronous	false	

envia caracteristicas : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	5	
Asynchronous	false	

cancela servico : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Message	
Sequence Number	8	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	9	
Asynchronous	false	

confirma cancelamento : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Message	
Sequence Number	12	
Asynchronous	false	

valida cancelamento : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Self Message	
Sequence Number	13	
Asynchronous	false	

valida cancelamento : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Self Message	
Sequence Number	13	
Asynchronous	false	

recalcula ordem pagamento : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Self Message	
Sequence Number	14	
Asynchronous	false	

recalcula ordem pagamento : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Self Message	
Sequence Number	14	
Asynchronous	false	

servico cancelado : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	15	
Asynchronous	false	



UI

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresenta lista servicos contratados : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	1	
Asynchronous	false	

apresenta lista servicos contratados : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	2	
Asynchronous	false	

escolhe servico a cancelar : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	3	
Asynchronous	false	

envia servico a cancelar : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Message	
Sequence Number	4	
Asynchronous	false	

envia caracteristicas : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	5	
Asynchronous	false	

envia caracteristicas : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	6	
Asynchronous	false	

cancela servico : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	7	
Asynchronous	false	

cancela servico : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Message	
Sequence Number	8	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	9	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	10	
Asynchronous	false	

confirma cancelamento : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	11	
Asynchronous	false	

confirma cancelamento : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Message	
Sequence Number	12	
Asynchronous	false	

servico cancelado : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	15	
Asynchronous	false	

servico cancelado : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	16	
Asynchronous	false	



Morador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresenta lista servicos contratados : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	2	
Asynchronous	false	

escolhe servico a cancelar : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	3	
Asynchronous	false	

envia caracteristicas : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	6	
Asynchronous	false	

cancela servico : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	7	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	10	
Asynchronous	false	

confirma cancelamento : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	11	
Asynchronous	false	

servico cancelado : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	16	
Asynchronous	false	

morador cancela servico

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand
Operand2

Covered LifeLines

Name	Documentation
 Servicos contratados	
 UI	
 Morador	

Operand

Name	Value	
Guard	Name	Value
	Constraint	morador cancela servico

Children

Name	Documentation
 se servico contratado já foi pago	

se servico contratado já foi pago

Name	Value
Interaction Operator	opt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Servicos contratados	
 UI	

Operand2

Name	Value	
Guard	Name	Value
	Constraint	morador decide nao cancelar servico

Children

Name	Documentation
 N/A	volta ao passo 1

N/A

Name	Value
Documentation	volta ao passo 1

Operand

Name	Value	
Guard	Name	Value
	Constraint	se servico contratado já foi pago

Children

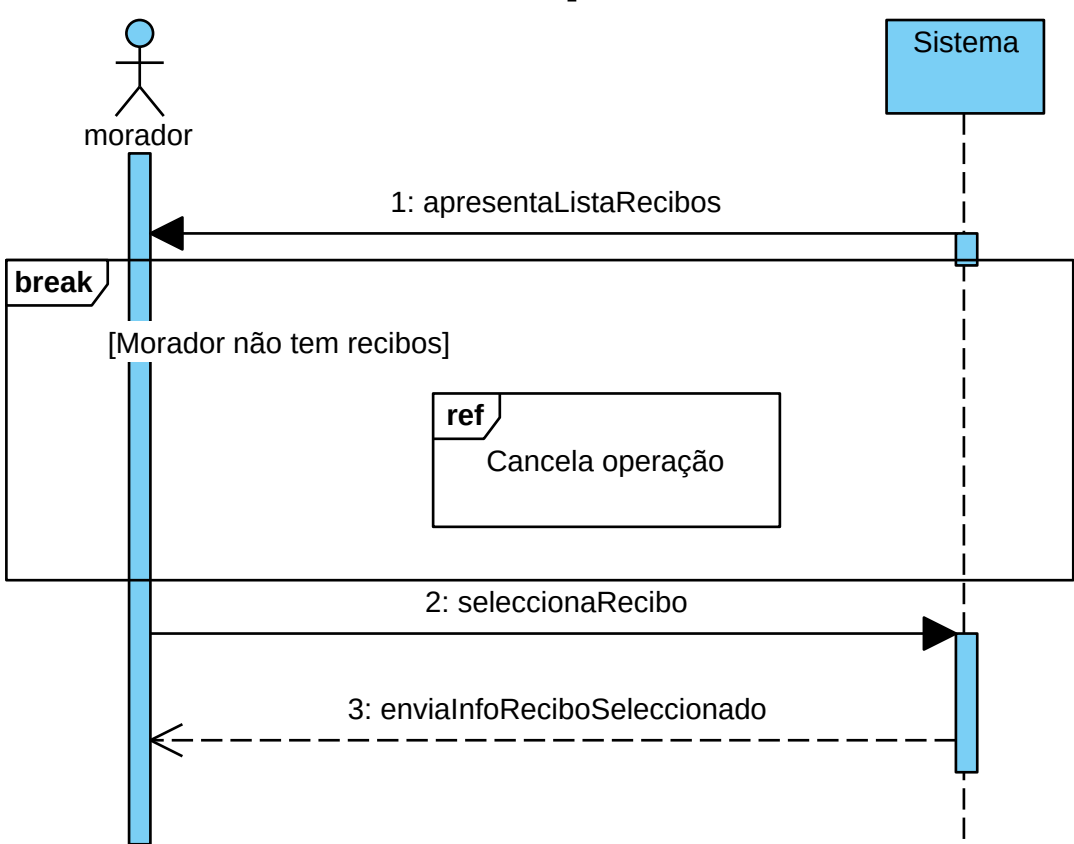
Name	Documentation
 InteractionUse	

InteractionUse

Name	Value
Refers To	 Gerar Estorno - DS Subsistemas - passo2

Sequence Diagram

Consultar recibos passo 1



Summary

Name	Documentation
 Sistema	
 morador	
 Morador não tem recibos	
 Operand	
 InteractionUse3	

Details

 Sistema

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresentaListaRecibos : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	1	
Asynchronous	false	

seleccionaRecibo : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

enviaInfoReciboSeleccionado : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

morador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false
Referenced Actor	 morador

Relationships

apresentaListaRecibos : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	1	
Asynchronous	false	

seleccionaRecibo : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

enviaInfoReciboSeleccionado : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Morador não tem recibos

Name	Value
Interaction Operator	break

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 morador	
 Sistema	



Operand

Name	Value	
Guard	Name	Value
	Constraint	Morador não tem recibos

Children

Name	Documentation
InteractionUse3	

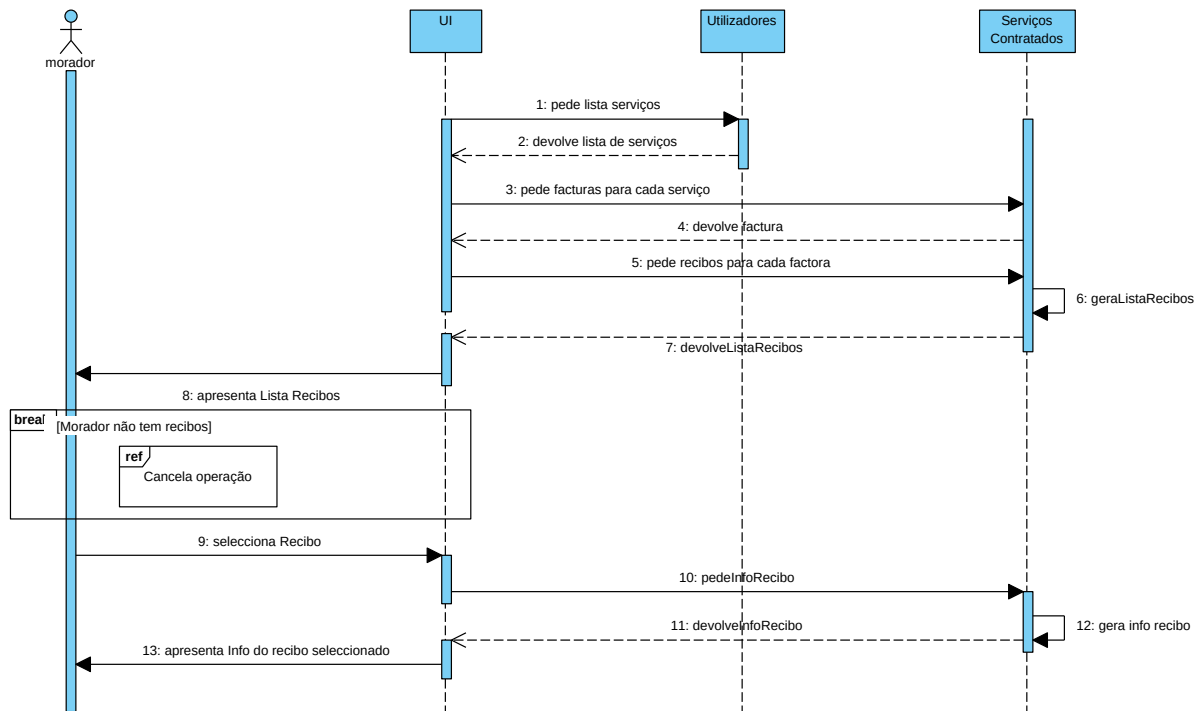


InteractionUse3

Name	Value
Refers To	Cancela operação

Sequence Diagram

Consultar recibos passo 2



Summary

Name	Documentation
 morador	
 UI	
 Serviços Contratados	
 Utilizadores	
 Morador não tem recibos	
 Operand	
 InteractionUse3	

Details

morador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false
Referenced Actor	 morador

Relationships

apresenta Lista Recibos : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	8	
Asynchronous	false	

selecciona Recibo : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	9	
Asynchronous	false	

apresenta Info do recibo selecionado : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	13	
Action Type	Name	Value
	Name	Send
	Iteration	false
	Asynchronous	false
Asynchronous	false	



UI

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

pede lista serviços : Message		
To	Name	Value
	End Model Element	 Utilizadores
Type	Message	
Sequence Number	1	
Asynchronous	false	

devolve lista de serviços : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	2	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

pede facturas para cada serviço : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Message	
Sequence Number	3	
Asynchronous	false	

devolve factura : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	4	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

pede recibos para cada factura : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Message	
Sequence Number	5	
Asynchronous	false	

devolveListaRecibos : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	7	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

apresenta Lista Recibos : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	8	
Asynchronous	false	

selecciona Recibo : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	9	
Asynchronous	false	

pedelInfoRecibo : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Message	
Sequence Number	10	
Asynchronous	false	

devolveInfoRecibo : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	11	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

apresenta Info do recibo seleccionado : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	13	
Action Type	Name	Value
	Name	Send
	Iteration	false
	Asynchronous	false
Asynchronous	false	



Serviços Contratados

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

pede facturas para cada serviço : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Message	
Sequence Number	3	
Asynchronous	false	

devolve factura : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	4	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

pede recibos para cada factura : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Message	
Sequence Number	5	
Asynchronous	false	

geraListaRecibos : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Self Message	
Sequence Number	6	
Asynchronous	false	

geraListaRecibos : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Self Message	
Sequence Number	6	
Asynchronous	false	

devolveListaRecibos : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	7	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

pedeInfoRecibo : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Message	
Sequence Number	10	
Asynchronous	false	

devolveInfoRecibo : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	11	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

gera info recibo : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Self Message	
Sequence Number	12	
Asynchronous	false	

gera info recibo : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Self Message	
Sequence Number	12	
Asynchronous	false	

Utilizadores

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

pede lista serviços : Message		
To	Name	Value
	End Model Element	 Utilizadores
Type	Message	
Sequence Number	1	
Asynchronous	false	

devolve lista de serviços : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	2	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Morador não tem recibos

Name	Value
Interaction Operator	break

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 morador	
 UI	



Operand

Name	Value	
Guard	Name	Value
	Constraint	Morador não tem recibos

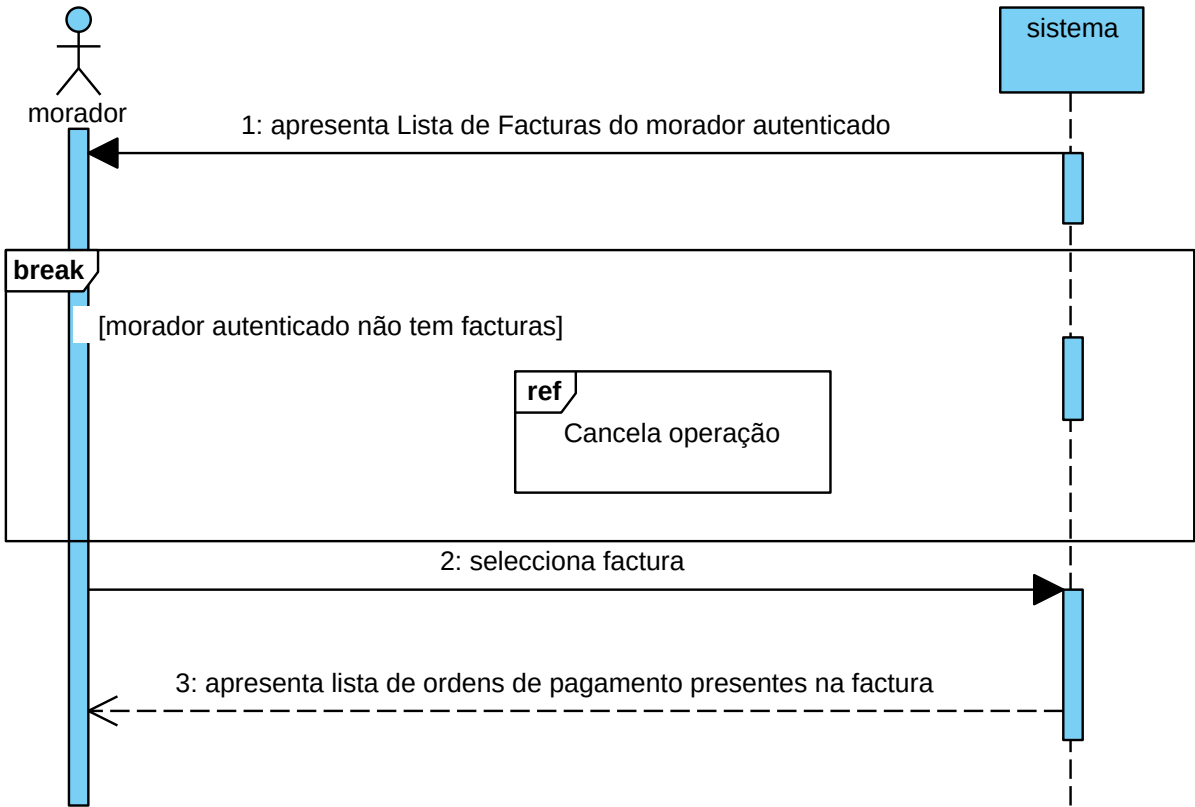


InteractionUse3

Name	Value
Refers To	 Cancela operação

Sequence Diagram

Consultar facturas passo1



Summary

Name	Documentation
 sistema	
 morador	
 morador autenticado não tem facturas	
 Operand	
 InteractionUse4	

Details

 sistema

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresenta Lista de Facturas do morador autenticado : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	1	
Asynchronous	false	

selecciona factura : Message		
To	Name	Value
	End Model Element	 sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresenta lista de ordens de pagamento presentes na factura : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

morador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false
Referenced Actor	 morador

Relationships

apresenta Lista de Facturas do morador autenticado : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	1	
Asynchronous	false	

selecciona factura : Message		
To	Name	Value
	End Model Element	 sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresenta lista de ordens de pagamento presentes na factura : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

morador autenticado não tem facturas

Name	Value
Interaction Operator	break

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 morador	
 sistema	



Operand

Name	Value	
Guard	Name	Value
	Constraint	morador autenticado não tem facturas

Children

Name	Documentation
 InteractionUse4	

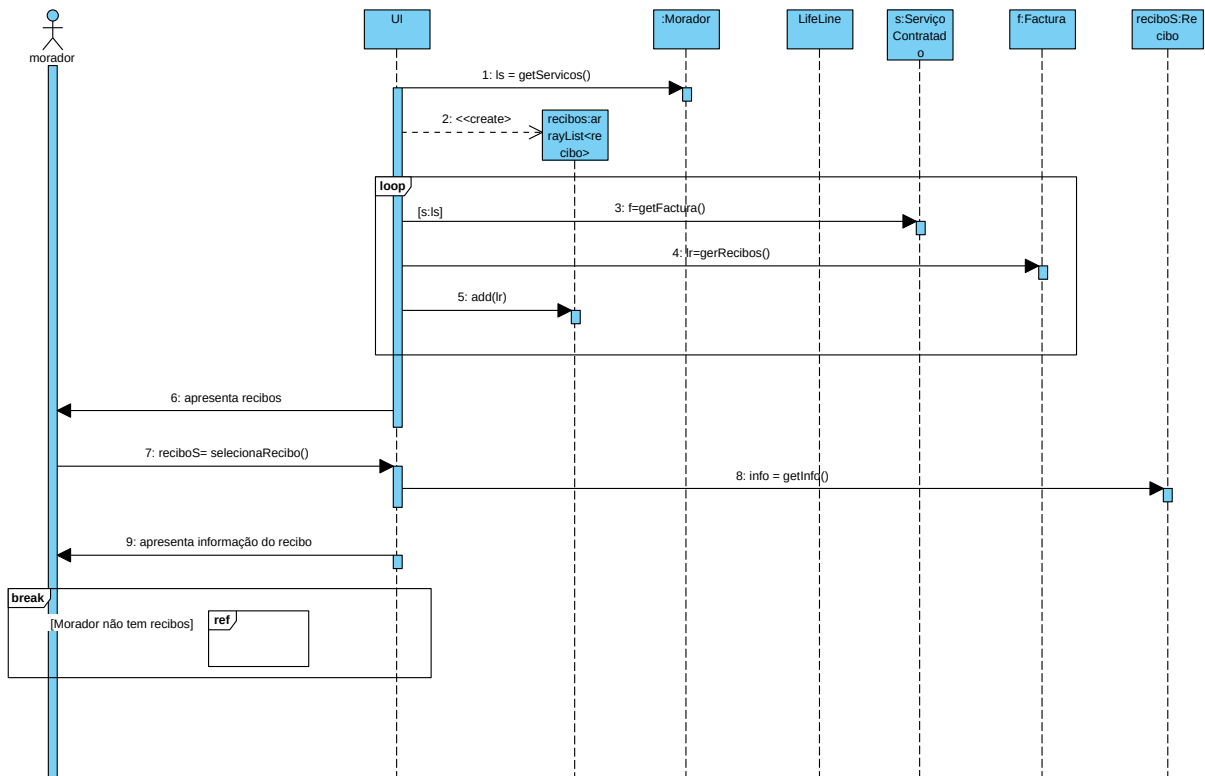


InteractionUse4

Name	Value
Refers To	 Cancela operação

Sequence Diagram

Consultar recibos passo 3



Summary

Name	Documentation
UI	
morador	
:Morador	
recibos:arrayList<recibo>	
s:ServiçoContratado	
f:Factura	
reciboS:Recibo	
Operand	
Morador não tem recibos	
InteractionUse	
s:ls	
Operand	
LifeLine	

Details



UI

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

Is = getServicos() : Message		
To	Name	Value
	End Model Element	:Morador
Type	Message	
Sequence Number	1	
Asynchronous	false	

<<create> : Message		
To	Name	Value
	End Model Element	recibos:arrayList<recibo>
Type	Create Message	
Sequence Number	2	
Asynchronous	false	

f=getFactura() : Message		
To	Name	Value
	End Model Element	s:ServiçoContratado
Type	Message	
Sequence Number	3	
Asynchronous	false	

lr=gerRecibos() : Message		
To	Name	Value
	End Model Element	f:Factura
Type	Message	
Sequence Number	4	
Asynchronous	false	

add(lr) : Message		
To	Name	Value
	End Model Element	 recibos:arrayList<recibo>
Type	Message	
Sequence Number	5	
Asynchronous	false	

apresenta recibos : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	6	
Asynchronous	false	

reciboS= seleccionaRecibo() : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	7	
Asynchronous	false	

info = getInfo() : Message		
To	Name	Value
	End Model Element	 reciboS:Recibo
Type	Message	
Sequence Number	8	
Asynchronous	false	

apresenta informação do recibo : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	9	
Asynchronous	false	

morador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false
Referenced Actor	 morador

Relationships

apresenta recibos : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	6	
Asynchronous	false	

reciboS= selecionaRecibo() : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	7	
Asynchronous	false	

apresenta informação do recibo : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	9	
Asynchronous	false	

:Morador

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

Is = getServicos() : Message		
To	Name	Value
	End Model Element	 :Morador
Type	Message	
Sequence Number	1	
Asynchronous	false	



recibos:arrayList<recibo>

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

<<create> : Message		
To	Name	Value
	End Model Element	 recibos:arrayList<recibo>
Type	Create Message	
Sequence Number	2	
Asynchronous	false	

add(lr) : Message		
To	Name	Value
	End Model Element	 recibos:arrayList<recibo>
Type	Message	
Sequence Number	5	
Asynchronous	false	



s:ServiçoContratado

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

f=getFactura() : Message		
To	Name	Value
	End Model Element	 s:ServiçoContratado
Type	Message	
Sequence Number	3	
Asynchronous	false	

f:Factura

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

lr=gerRecibos() : Message		
To	Name	Value
	End Model Element	 f:Factura
Type	Message	
Sequence Number	4	
Asynchronous	false	

reciboS:Recibo

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

info = getInfo() : Message		
To	Name	Value
	End Model Element	 reciboS:Recibo
Type	Message	
Sequence Number	8	
Asynchronous	false	

Operand

Name	Value	
Guard	Name	Value
	Constraint	Morador não tem recibos

Morador não tem recibos

Name	Value
Interaction Operator	break

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 morador	
 UI	

InteractionUse

s:ls

Name	Value
Interaction Operator	loop

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 UI	
 :Morador	
 s:ServiçoContratado	
 recibos:arrayList<recibo>	
 LifeLine	
 f:Factura	



Operand

Name	Value	
Guard	Name	Value
	Constraint	s:ls

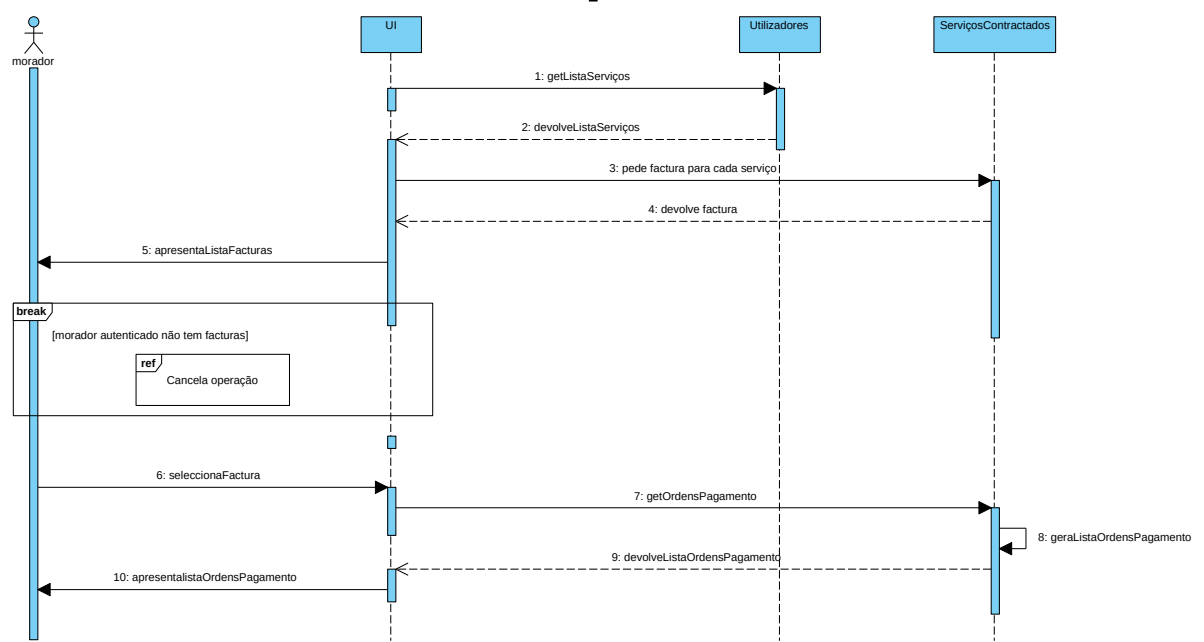


LifeLine

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Sequence Diagram

Consultar facturas passo 2



Summary

Name	Documentation
 UI	
 morador	
 Utilizadores	
 ServiçosContractados	
 morador autenticado não tem facturas	
 Operand	
 InteractionUse4	

Details

UI

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

getListaServiços : Message		
To	Name	Value
	End Model Element	 Utilizadores
Type	Message	
Sequence Number	1	
Asynchronous	false	

devolveListaServiços : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	2	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

pede factura para cada serviço : Message		
To	Name	Value
	End Model Element	 ServiçosContractados
Type	Message	
Sequence Number	3	
Asynchronous	false	

devolve factura : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	4	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

apresentaListaFacturas : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	5	
Asynchronous	false	

seleccionaFactura : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	6	
Asynchronous	false	

getOrdensPagamento : Message		
To	Name	Value
	End Model Element	 ServiçosContractados
Type	Message	
Sequence Number	7	
Asynchronous	false	

devolveListaOrdensPagamento : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	9	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

apresentalistaOrdensPagamento : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	10	
Asynchronous	false	

morador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false
Referenced Actor	 morador

Relationships

apresentaListaFacturas : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	5	
Asynchronous	false	

seleccionaFactura : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	6	
Asynchronous	false	

apresentalistaOrdensPagamento : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	10	
Asynchronous	false	

Utilizadores

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

getListaServiços : Message		
To	Name	Value
	End Model Element	 Utilizadores
Type	Message	
Sequence Number	1	
Asynchronous	false	

devolveListaServiços : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	2	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

ServiçosContractados

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

pede factura para cada serviço : Message		
To	Name	Value
	End Model Element	 ServiçosContractados
Type	Message	
Sequence Number	3	
Asynchronous	false	

devolve factura : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	4	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

getOrdensPagamento : Message		
To	Name	Value
	End Model Element	 ServiçosContractados
Type	Message	
Sequence Number	7	
Asynchronous	false	

geralListaOrdensPagamento : Message		
To	Name	Value
	End Model Element	 ServiçosContractados
Type	Self Message	
Sequence Number	8	
Asynchronous	false	

geralListaOrdensPagamento : Message		
To	Name	Value
	End Model Element	 ServiçosContractados
Type	Self Message	
Sequence Number	8	
Asynchronous	false	

devolveListaOrdensPagamento : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	9	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

morador autenticado não tem facturas

Name	Value
Interaction Operator	break

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 morador	
 UI	

Operand

Name	Value	
Guard	Name	Value
	Constraint	morador autenticado não tem facturas

Children

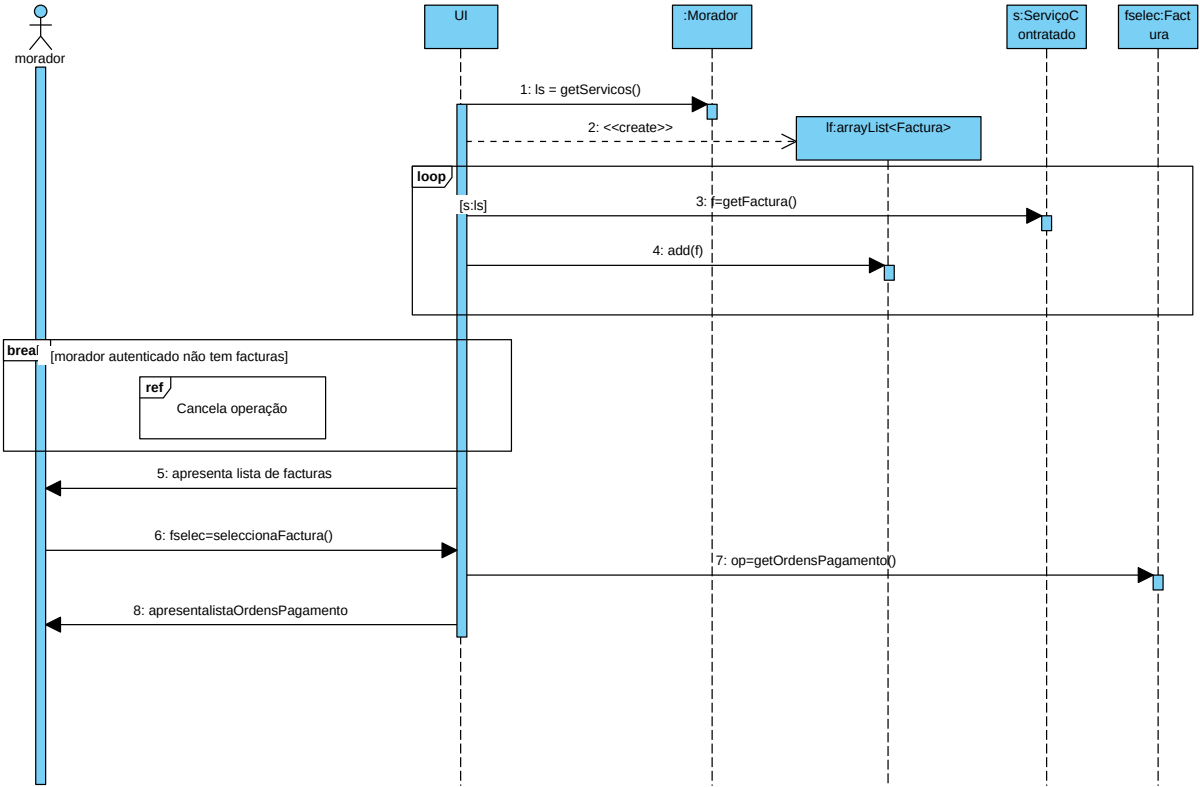
Name	Documentation
 InteractionUse4	

InteractionUse4

Name	Value
Refers To	 Cancela operação

Sequence Diagram

Consultar facturas passo 3



Summary

Name	Documentation
morador	
UI	
:Morador	
s:ServiçoContratado	
lf:arrayList<Factura>	
fselec:Factura	
morador autenticado não tem facturas	
Operand	
InteractionUse4	
s:ls	
Operand	

Details



morador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false
Referenced Actor	morador

Relationships

apresenta lista de facturas : Message		
To	Name	Value
	End Model Element	morador
Type	Message	
Sequence Number	5	
Asynchronous	false	

fselec=seleccionaFactura() : Message		
To	Name	Value
	End Model Element	UI
Type	Message	
Sequence Number	6	
Asynchronous	false	

apresentalistaOrdensPagamento : Message		
To	Name	Value
	End Model Element	morador
Type	Message	
Sequence Number	8	
Action Type	Name	Value
	Name	Send
	Iteration	false
	Asynchronous	false
Asynchronous	false	



UI

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

Is = getServicos() : Message		
To	Name	Value
	End Model Element	:Morador
Type	Message	
Sequence Number	1	
Asynchronous	false	

<<create>> : Message		
To	Name	Value
	End Model Element	lf:arrayList<Factura>
Type	Create Message	
Sequence Number	2	
Asynchronous	false	

f=getFactura() : Message		
To	Name	Value
	End Model Element	s:ServiçoContratado
Type	Message	
Sequence Number	3	
Asynchronous	false	

add(f) : Message		
To	Name	Value
	End Model Element	lf:arrayList<Factura>
Type	Message	
Sequence Number	4	
Asynchronous	false	

apresenta lista de facturas : Message		
To	Name	Value
	End Model Element	morador
Type	Message	
Sequence Number	5	
Asynchronous	false	

fselec=seleccionaFactura() : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	6	
Asynchronous	false	

op=getOrdensPagamento() : Message		
To	Name	Value
	End Model Element	 fselec:Factura
Type	Message	
Sequence Number	7	
Asynchronous	false	

apresentalistaOrdensPagamento : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	8	
Action Type	Name	Value
	Name	Send
	Iteration	false
	Asynchronous	false
Asynchronous	false	



:Morador

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

Is = getServicos() : Message		
To	Name	Value
	End Model Element	 :Morador
Type	Message	
Sequence Number	1	
Asynchronous	false	

s:ServiçoContratado

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

f=getFactura() : Message		
To	Name	Value
	End Model Element	 s:ServiçoContratado
Type	Message	
Sequence Number	3	
Asynchronous	false	

If:arrayList<Factura>

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

<<create>> : Message		
To	Name	Value
	End Model Element	 If:arrayList<Factura>
Type	Create Message	
Sequence Number	2	
Asynchronous	false	

add(f) : Message		
To	Name	Value
	End Model Element	 If:arrayList<Factura>
Type	Message	
Sequence Number	4	
Asynchronous	false	

fselec:Factura

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

op=getOrdensPagamento() : Message		
To	Name	Value
	End Model Element	 fselec:Factura
Type	Message	
Sequence Number	7	
Asynchronous	false	

morador autenticado não tem facturas

Name	Value
Interaction Operator	break

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 morador	
 UI	

Operand

Name	Value	
Guard	Name	Value
	Constraint	morador autenticado não tem facturas

InteractionUse4

Name	Value
Refers To	 Cancela operação



s:ls

Name	Value
Interaction Operator	loop

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 UI	
 :Morador	
 s:ServiçoContratado	
 fselec:Fatura	
 lf:arrayList<Fatura>	

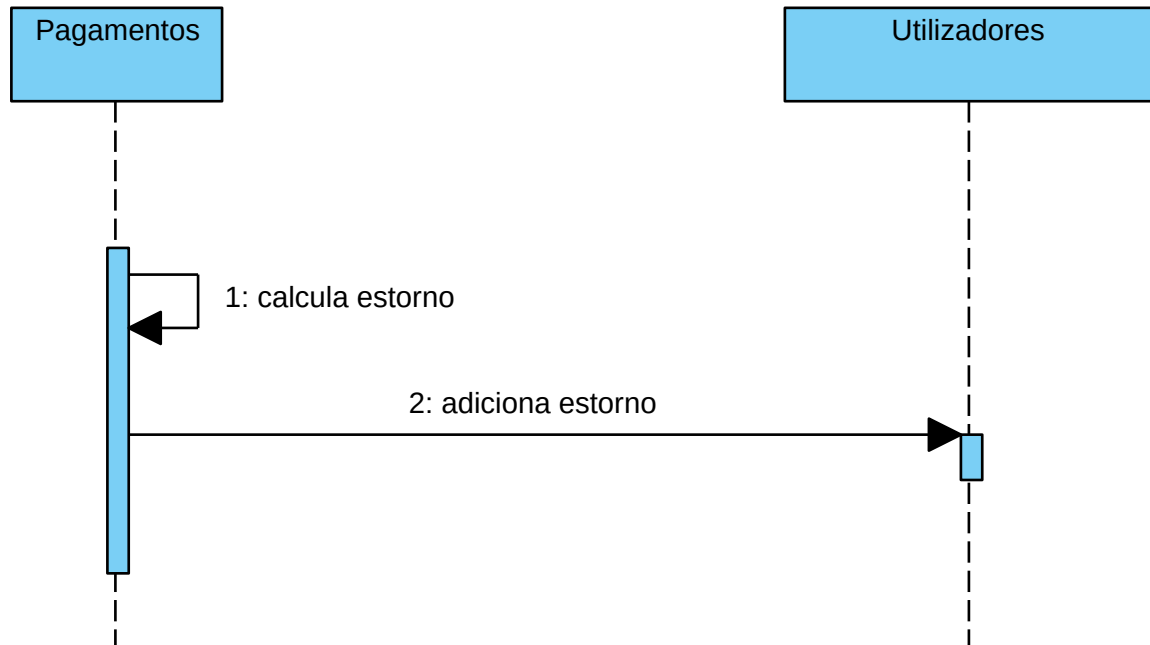


Operand

Name	Value	
Guard	Name	Value
	Constraint	s:ls

Sequence Diagram

Gerar Estorno - DS Implementação - passo3



Summary

Name	Documentation
 Pagamentos	
 Utilizadores	

Details

Pagamentos

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

calcula estorno : Message		
To	Name	Value
	End Model Element	 Pagamentos
Type	Self Message	
Sequence Number	1	
Asynchronous	false	

calcula estorno : Message		
To	Name	Value
	End Model Element	 Pagamentos
Type	Self Message	
Sequence Number	1	
Asynchronous	false	

adiciona estorno : Message		
To	Name	Value
	End Model Element	 Utilizadores
Type	Message	
Sequence Number	2	
Asynchronous	false	



Utilizadores

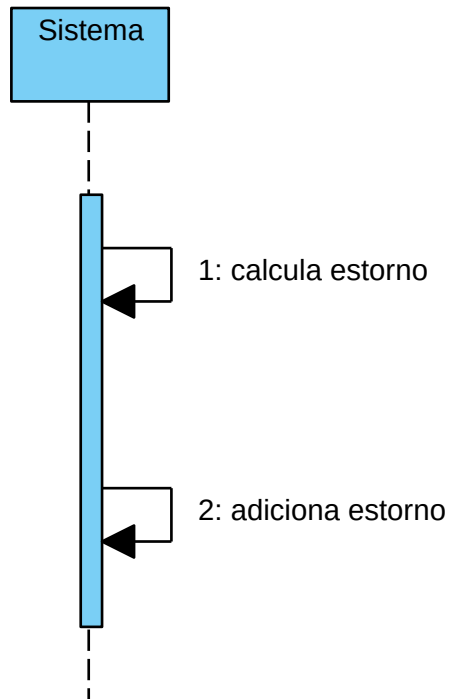
Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

adiciona estorno : Message		
To	Name	Value
	End Model Element	 Utilizadores
Type	Message	
Sequence Number	2	
Asynchronous	false	

Sequence Diagram

Gerar Estorno - DS Sistema - passo1



Summary

Name	Documentation
 Sistema	

Details

Sistema

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

calcula estorno : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	1	
Asynchronous	false	

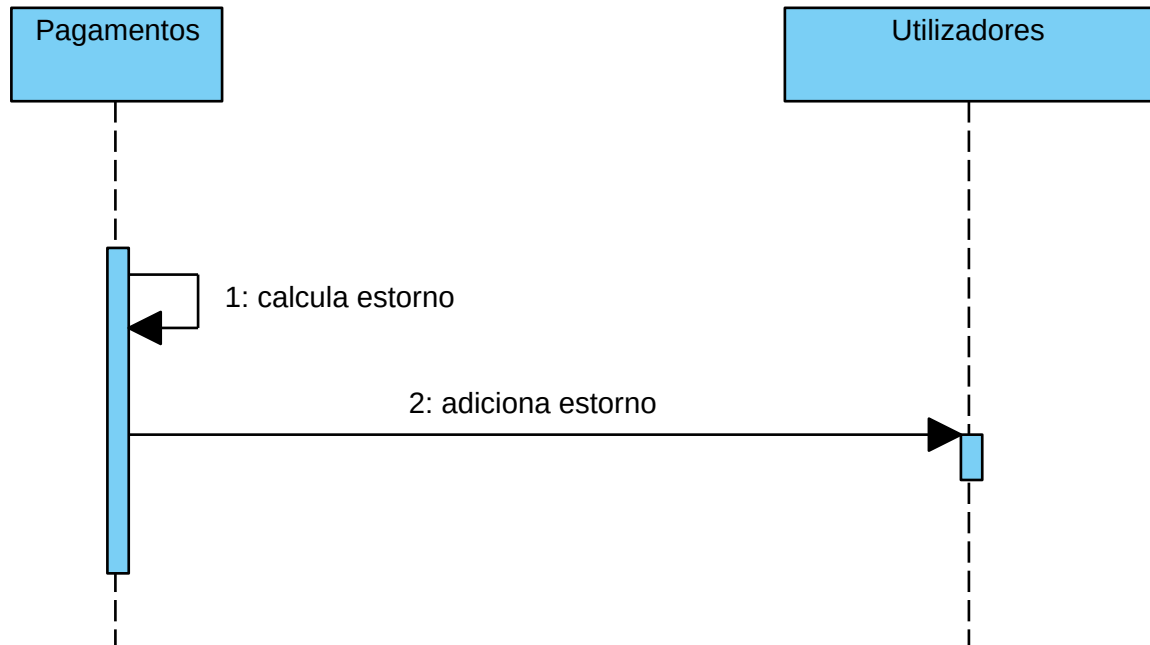
calcula estorno : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	1	
Asynchronous	false	

adiciona estorno : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	2	
Asynchronous	false	

adiciona estorno : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	2	
Asynchronous	false	

Sequence Diagram

Gerar Estorno - DS Subsistemas - passo2



Summary

Name	Documentation
 Pagamentos	
 Utilizadores	

Details



Pagamentos

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

calcula estorno : Message		
To	Name	Value
	End Model Element	 Pagamentos
Type	Self Message	
Sequence Number	1	
Asynchronous	false	

calcula estorno : Message		
To	Name	Value
	End Model Element	 Pagamentos
Type	Self Message	
Sequence Number	1	
Asynchronous	false	

adiciona estorno : Message		
To	Name	Value
	End Model Element	 Utilizadores
Type	Message	
Sequence Number	2	
Asynchronous	false	



Utilizadores

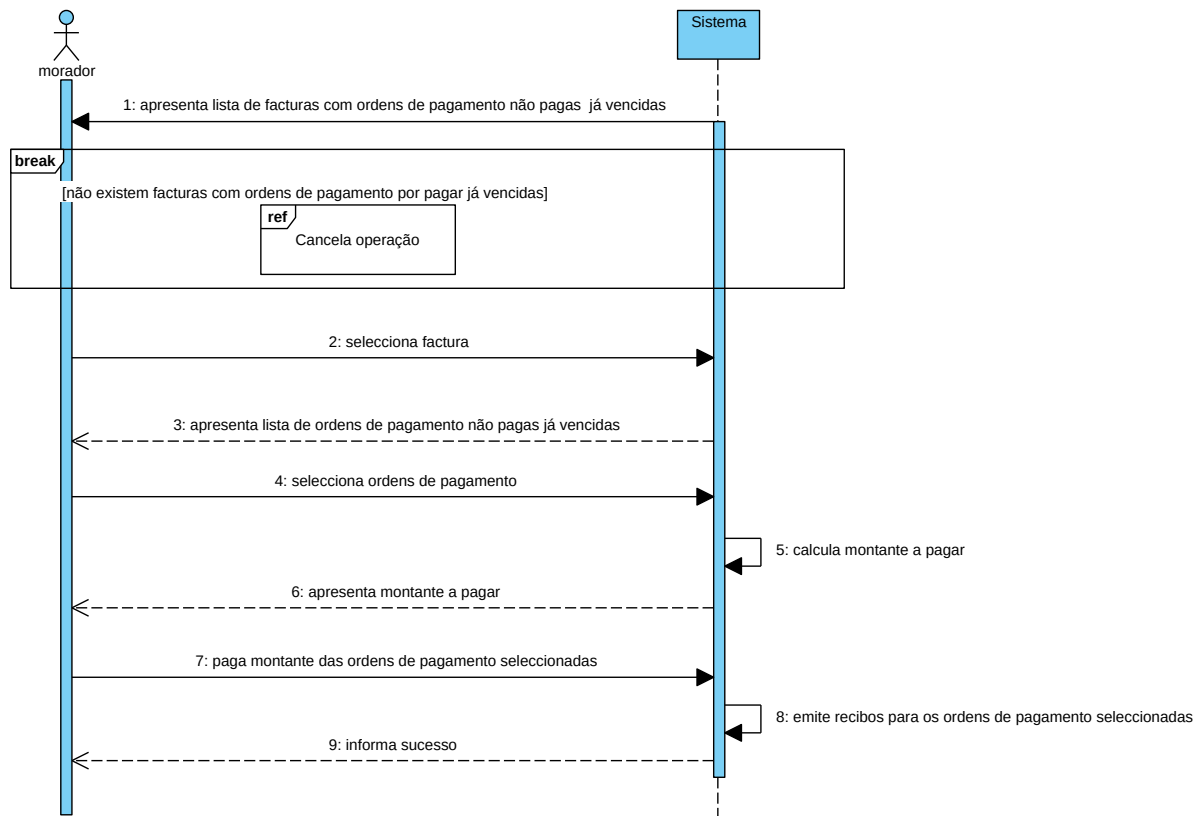
Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

adiciona estorno : Message		
To	Name	Value
	End Model Element	 Utilizadores
Type	Message	
Sequence Number	2	
Asynchronous	false	

Sequence Diagram

Pagar Facturas passo 1



Summary

Name	Documentation
 Sistema	
 morador	
 não existem facturas com ordens de pagamento por pagar já vencidas	
 Operand	
 InteractionUse4	

Details



Sistema

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresenta lista de facturas com ordens de pagamento não pagas já vencidas : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	1	
Asynchronous	false	

selecciona factura : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresenta lista de ordens de pagamento não pagas já vencidas : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

selecciona ordens de pagamento : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

calcula montante a pagar : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	5	
Asynchronous	false	

calcula montante a pagar : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	5	
Asynchronous	false	

apresenta montante a pagar : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	6	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

paga montante das ordens de pagamento seleccionadas : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	7	
Asynchronous	false	

emite recibos para os ordens de pagamento seleccionadas : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	8	
Asynchronous	false	

emite recibos para os ordens de pagamento seleccionadas : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	8	
Asynchronous	false	

informa sucesso : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	9	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	



morador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false
Referenced Actor	 morador

Relationships

apresenta lista de facturas com ordens de pagamento não pagas já vencidas : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	1	
Asynchronous	false	

seleciona factura : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresenta lista de ordens de pagamento não pagas já vencidas : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

seleciona ordens de pagamento : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

apresenta montante a pagar : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	6	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

paga montante das ordens de pagamento seleccionadas : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	7	
Asynchronous	false	

informa sucesso : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	9	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

 não existem facturas com ordens de pagamento por pagar já vencidas

Name	Value
Interaction Operator	break

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 morador	
 Sistema	

Operand

Name	Value	
Guard	Name	Value
	Constraint	não existem facturas com ordens de pagamento por pagar já vencidas

Children

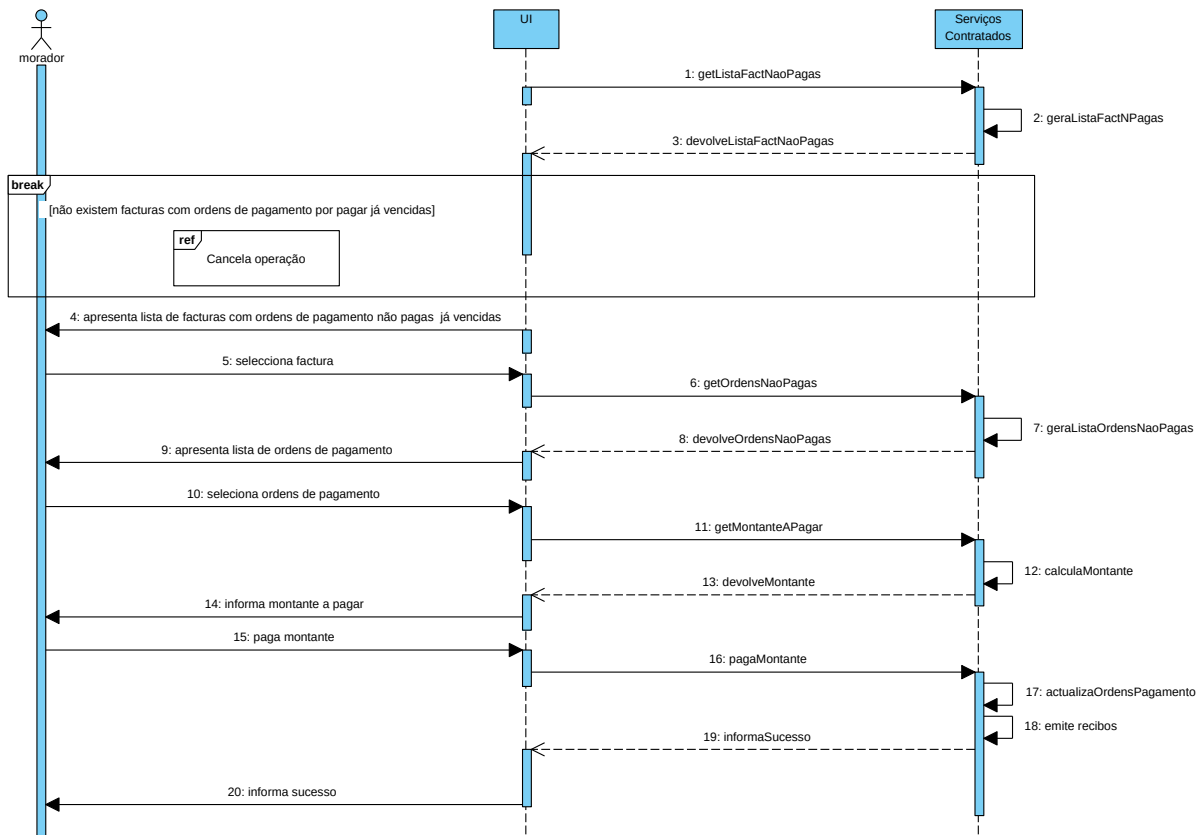
Name	Documentation
 InteractionUse4	

InteractionUse4

Name	Value
Refers To	 Cancela operação

Sequence Diagram

Pagar Facturas passo 2



Summary

Name	Documentation
UI	
morador	
Serviços Contratados	
não existem facturas com ordens de pagamento por pagar já vencidas	
Operand	
InteractionUse4	

Details



UI

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

getListaFactNaoPagas : Message		
To	Name	Value
	End Model Element	Serviços Contratados
Type	Message	
Sequence Number	1	
Asynchronous	false	

devolveListaFactNaoPagas : Message		
To	Name	Value
	End Model Element	UI
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

apresenta lista de facturas com ordens de pagamento não pagas já vencidas : Message		
To	Name	Value
	End Model Element	morador
Type	Message	
Sequence Number	4	
Asynchronous	false	

selecciona factura : Message		
To	Name	Value
	End Model Element	UI
Type	Message	
Sequence Number	5	
Asynchronous	false	

getOrdensNaoPagas : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Message	
Sequence Number	6	
Asynchronous	false	

devolveOrdensNaoPagas : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	8	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

apresenta lista de ordens de pagamento : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	9	
Asynchronous	false	

seleciona ordens de pagamento : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	10	
Asynchronous	false	

getMontanteAPagar : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Message	
Sequence Number	11	
Asynchronous	false	

devolveMontante : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	13	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

informa montante a pagar : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	14	
Asynchronous	false	

paga montante : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	15	
Asynchronous	false	

pagaMontante : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Message	
Sequence Number	16	
Asynchronous	false	

informaSucceso : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	19	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

informa sucesso : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	20	
Asynchronous	false	

morador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false
Referenced Actor	 morador

Relationships

apresenta lista de facturas com ordens de pagamento não pagas já vencidas : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	4	
Asynchronous	false	

selecciona factura : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	5	
Asynchronous	false	

apresenta lista de ordens de pagamento : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	9	
Asynchronous	false	

seleciona ordens de pagamento : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	10	
Asynchronous	false	

informa montante a pagar : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	14	
Asynchronous	false	

paga montante : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	15	
Asynchronous	false	

informa sucesso : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	20	
Asynchronous	false	



Serviços Contratados

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

getListaFactNaoPagas : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Message	
Sequence Number	1	
Asynchronous	false	

geralListaFactNPagas : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Self Message	
Sequence Number	2	
Asynchronous	false	

geralListaFactNPagas : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Self Message	
Sequence Number	2	
Asynchronous	false	

devolveListaFactNaoPagas : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

getOrdensNaoPagas : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Message	
Sequence Number	6	
Asynchronous	false	

geralListaOrdensNaoPagas : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Self Message	
Sequence Number	7	
Asynchronous	false	

geralListaOrdensNaoPagas : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Self Message	
Sequence Number	7	
Asynchronous	false	

devolveOrdensNaoPagas : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	8	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

getMontanteAPagar : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Message	
Sequence Number	11	
Asynchronous	false	

calculaMontante : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Self Message	
Sequence Number	12	
Asynchronous	false	

calculaMontante : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Self Message	
Sequence Number	12	
Asynchronous	false	

devolveMontante : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	13	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

pagaMontante : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Message	
Sequence Number	16	
Asynchronous	false	

actualizaOrdensPagamento : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Self Message	
Sequence Number	17	
Asynchronous	false	

actualizaOrdensPagamento : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Self Message	
Sequence Number	17	
Asynchronous	false	

emite recibos : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Self Message	
Sequence Number	18	
Asynchronous	false	

emite recibos : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Self Message	
Sequence Number	18	
Asynchronous	false	

informaSucceso : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	19	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

 não existem facturas com ordens de pagamento por pagar já vencidas

Name	Value
Interaction Operator	break

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 morador	
 UI	
 Serviços Contratados	



Operand

Name	Value	
Guard	Name	Value
	Constraint	não existem facturas com ordens de pagamento por pagar já vencidas

Children

Name	Documentation
InteractionUse4	

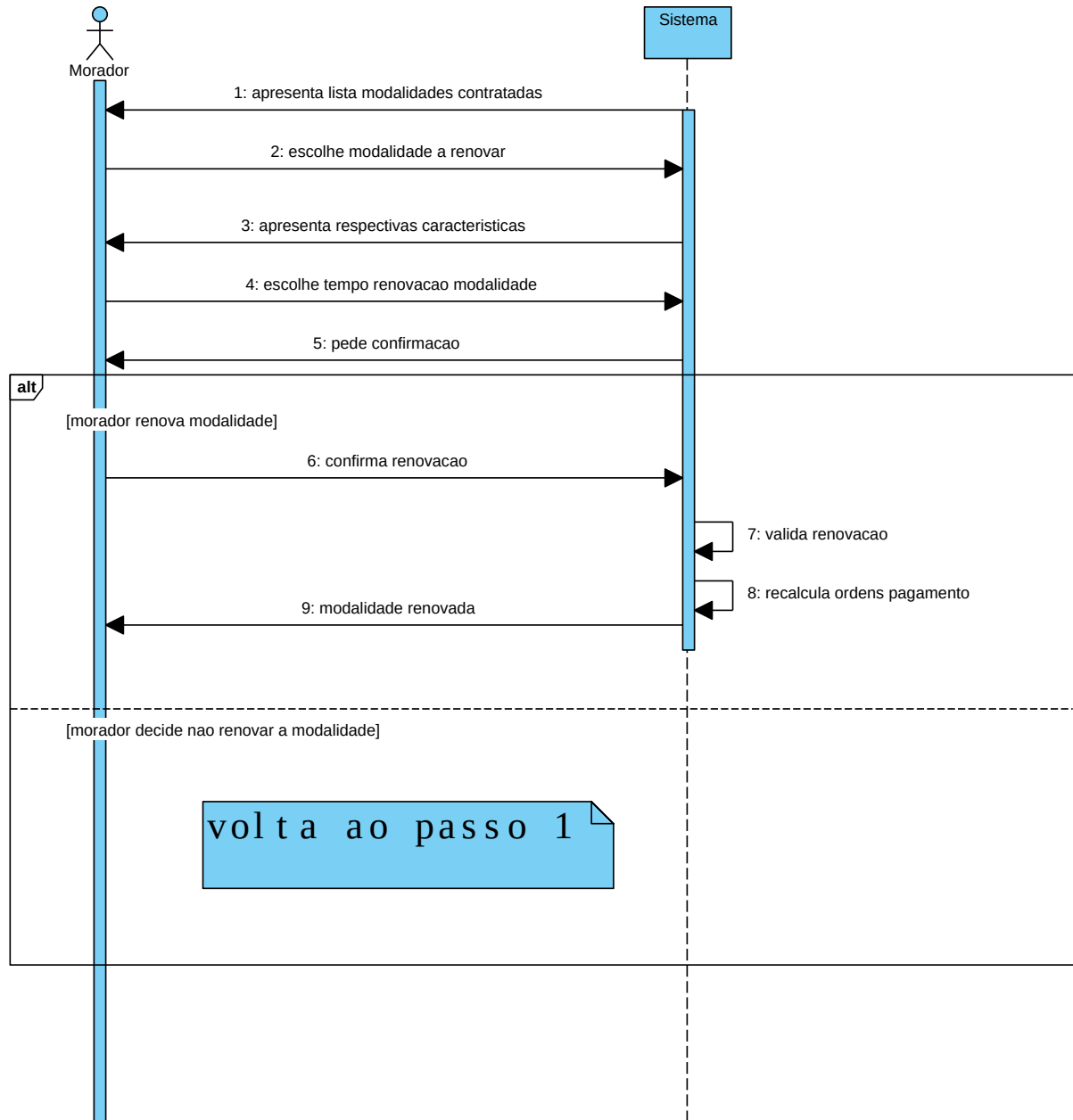


InteractionUse4

Name	Value
Refers To	Cancela operação

Sequence Diagram

Renovar modalidade contratada - DS Sistema - passo1



Summary

Name	Documentation
 Sistema	
 Morador	
 morador renova modalidade	
 Operand	

 Operand2	
 N/A	volta ao passo 1

Details



Sistema

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	1	
Asynchronous	false	

escolhe modalidade a renovar : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresenta respectivas caracteristicas : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	3	
Asynchronous	false	

escolhe tempo renovacao modalidade : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	5	
Asynchronous	false	

confirma renovacao : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	6	
Asynchronous	false	

valida renovacao : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	7	
Asynchronous	false	

valida renovacao : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	7	
Asynchronous	false	

recalcula ordens pagamento : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	8	
Asynchronous	false	

recalcula ordens pagamento : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	8	
Asynchronous	false	

modalidade renovada : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	9	
Asynchronous	false	

Morador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false
Referenced Actor	 Morador

Relationships

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	1	
Asynchronous	false	

escolhe modalidade a renovar : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresenta respectivas características : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	3	
Asynchronous	false	

escolhe tempo renovacao modalidade : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	5	
Asynchronous	false	

confirma renovacao : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	6	
Asynchronous	false	

modalidade renovada : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	9	
Asynchronous	false	

morador renova modalidade

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand
Operand2

Covered LifeLines

Name	Documentation
 Morador	
 Sistema	

Operand

Name	Value	
Guard	Name	Value
	Constraint	morador renova modalidade

Operand2

Name	Value	
Guard	Name	Value
	Constraint	morador decide nao renovar a modalidade

Children

Name	Documentation
 N/A	volta ao passo 1

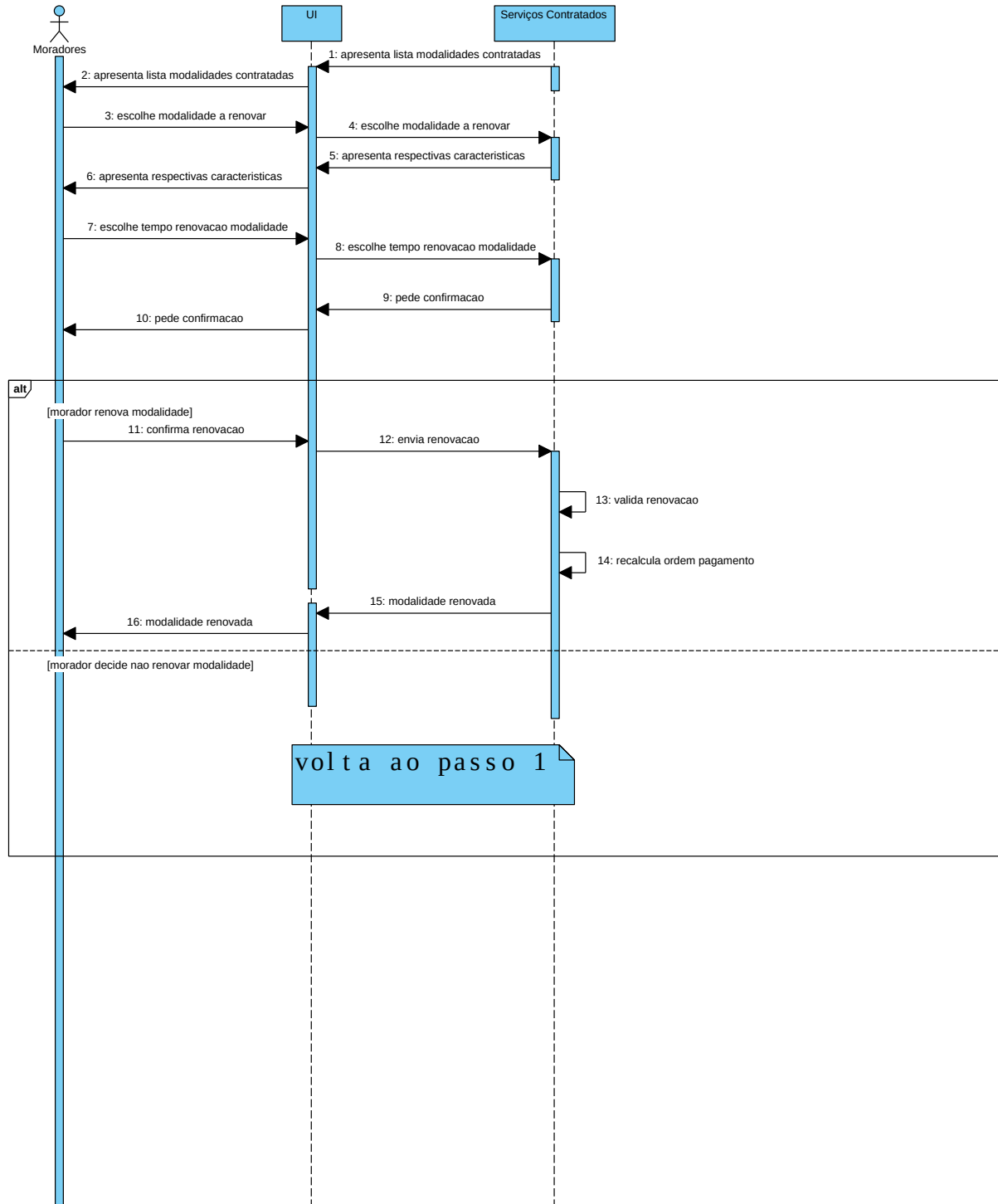
N/A

Name	Value
Documentation	volta ao passo 1

Sequence Diagram

Renovar modalidade contratada - DS

Subsistemas - passo2



Summary

Name	Documentation

 Serviços Contratados	
 UI	
 Moradores	
 morador renova modalidade	
 Operand	
 Operand2	
 N/A	volta ao passo 1

Details

Serviços Contratados

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	1	
Asynchronous	false	

escolhe modalidade a renovar : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Message	
Sequence Number	4	
Asynchronous	false	

apresenta respectivas características : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	5	
Asynchronous	false	

escolhe tempo renovacao modalidade : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Message	
Sequence Number	8	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	9	
Asynchronous	false	

envia renovacao : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Message	
Sequence Number	12	
Asynchronous	false	

valida renovacao : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Self Message	
Sequence Number	13	
Asynchronous	false	

valida renovacao : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Self Message	
Sequence Number	13	
Asynchronous	false	

recalcula ordem pagamento : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Self Message	
Sequence Number	14	
Asynchronous	false	

recalcula ordem pagamento : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Self Message	
Sequence Number	14	
Asynchronous	false	

modalidade renovada : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	15	
Asynchronous	false	



UI

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	1	
Asynchronous	false	

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	 Moradores
Type	Message	
Sequence Number	2	
Asynchronous	false	

escolhe modalidade a renovar : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	3	
Asynchronous	false	

escolhe modalidade a renovar : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Message	
Sequence Number	4	
Asynchronous	false	

apresenta respectivas características : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	5	
Asynchronous	false	

apresenta respectivas características : Message		
To	Name	Value
	End Model Element	 Moradores
Type	Message	
Sequence Number	6	
Asynchronous	false	

escolhe tempo renovacao modalidade : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	7	
Asynchronous	false	

escolhe tempo renovacao modalidade : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Message	
Sequence Number	8	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	9	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 Moradores
Type	Message	
Sequence Number	10	
Asynchronous	false	

confirma renovacao : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	11	
Asynchronous	false	

envia renovacao : Message		
To	Name	Value
	End Model Element	 Serviços Contratados
Type	Message	
Sequence Number	12	
Asynchronous	false	

modalidade renovada : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	15	
Asynchronous	false	

modalidade renovada : Message		
To	Name	Value
	End Model Element	 Moradores
Type	Message	
Sequence Number	16	
Asynchronous	false	



Moradores

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresenta lista modalidades contratadas : Message		
To	Name	Value
	End Model Element	Moradores
Type	Message	
Sequence Number	2	
Asynchronous	false	

escolhe modalidade a renovar : Message		
To	Name	Value
	End Model Element	UI
Type	Message	
Sequence Number	3	
Asynchronous	false	

apresenta respectivas características : Message		
To	Name	Value
	End Model Element	Moradores
Type	Message	
Sequence Number	6	
Asynchronous	false	

escolhe tempo renovacao modalidade : Message		
To	Name	Value
	End Model Element	UI
Type	Message	
Sequence Number	7	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 Moradores
Type	Message	
Sequence Number	10	
Asynchronous	false	

confirma renovacao : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	11	
Asynchronous	false	

modalidade renovada : Message		
To	Name	Value
	End Model Element	 Moradores
Type	Message	
Sequence Number	16	
Asynchronous	false	



morador renova modalidade

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand
Operand2

Covered LifeLines

Name	Documentation
 Moradores	
 Serviços Contratados	
 UI	



Operand

Name	Value	
Guard	Name	Value
	Constraint	morador renova modalidade



Operand2

Name	Value	
Guard	Name	Value
	Constraint	morador decide nao renovar modalidade

Children

Name	Documentation
 N/A	volta ao passo 1



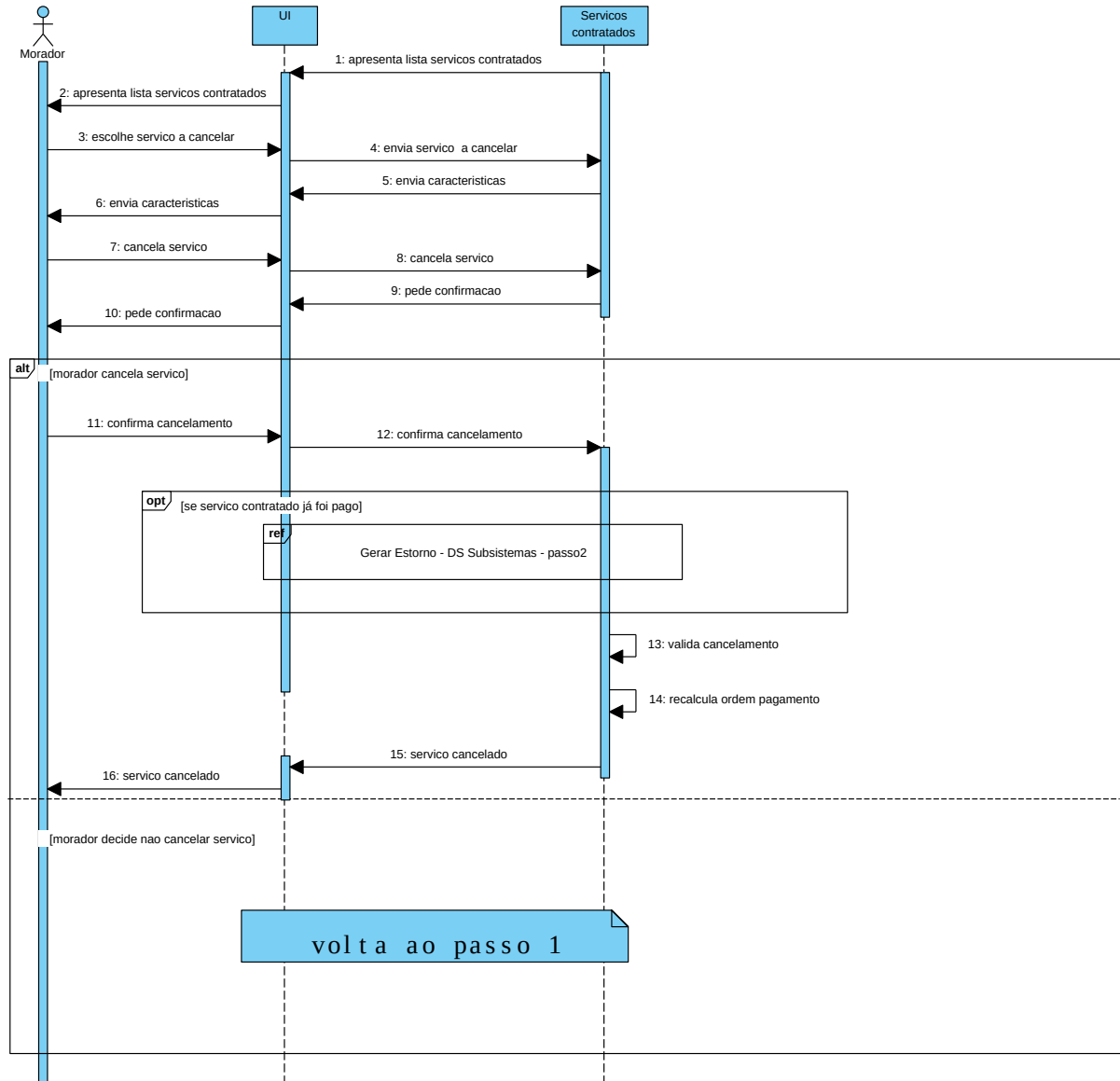
N/A

Name	Value
Documentation	volta ao passo 1

Sequence Diagram

Renovar modalidade contratata - DS

Implementação - passo3



Summary

Name	Documentation
 Servicos contratados	
 UI	
 Morador	
 morador cancela servico	
 Operand	
 se servico contratado já foi pago	

 Operand2	
 N/A	volta ao passo 1
 Operand	
 InteractionUse	

Details

Servicos contratados

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresenta lista servicos contratados : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	1	
Asynchronous	false	

envia servico a cancelar : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Message	
Sequence Number	4	
Asynchronous	false	

envia caracteristicas : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	5	
Asynchronous	false	

cancela servico : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Message	
Sequence Number	8	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	9	
Asynchronous	false	

confirma cancelamento : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Message	
Sequence Number	12	
Asynchronous	false	

valida cancelamento : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Self Message	
Sequence Number	13	
Asynchronous	false	

valida cancelamento : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Self Message	
Sequence Number	13	
Asynchronous	false	

recalcula ordem pagamento : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Self Message	
Sequence Number	14	
Asynchronous	false	

recalcula ordem pagamento : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Self Message	
Sequence Number	14	
Asynchronous	false	

servico cancelado : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	15	
Asynchronous	false	



UI

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresenta lista servicos contratados : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	1	
Asynchronous	false	

apresenta lista servicos contratados : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	2	
Asynchronous	false	

escolhe servico a cancelar : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	3	
Asynchronous	false	

envia servico a cancelar : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Message	
Sequence Number	4	
Asynchronous	false	

envia caracteristicas : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	5	
Asynchronous	false	

envia caracteristicas : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	6	
Asynchronous	false	

cancela servico : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	7	
Asynchronous	false	

cancela servico : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Message	
Sequence Number	8	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	9	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	10	
Asynchronous	false	

confirma cancelamento : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	11	
Asynchronous	false	

confirma cancelamento : Message		
To	Name	Value
	End Model Element	 Servicos contratados
Type	Message	
Sequence Number	12	
Asynchronous	false	

servico cancelado : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	15	
Asynchronous	false	

servico cancelado : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	16	
Asynchronous	false	



Morador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresenta lista servicos contratados : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	2	
Asynchronous	false	

escolhe servico a cancelar : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	3	
Asynchronous	false	

envia caracteristicas : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	6	
Asynchronous	false	

cancela servico : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	7	
Asynchronous	false	

pede confirmacao : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	10	
Asynchronous	false	

confirma cancelamento : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	11	
Asynchronous	false	

servico cancelado : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	16	
Asynchronous	false	

morador cancela servico

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand
Operand2

Covered LifeLines

Name	Documentation
 Servicos contratados	
 UI	
 Morador	

Operand

Name	Value	
Guard	Name	Value
	Constraint	morador cancela servico

Children

Name	Documentation
 se servico contratado já foi pago	

se servico contratado já foi pago

Name	Value
Interaction Operator	opt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Servicos contratados	
 UI	

Operand2

Name	Value	
Guard	Name	Value
	Constraint	morador decide nao cancelar servico

Children

Name	Documentation
 N/A	volta ao passo 1

N/A

Name	Value
Documentation	volta ao passo 1

Operand

Name	Value	
Guard	Name	Value
	Constraint	se servico contratado já foi pago

Children

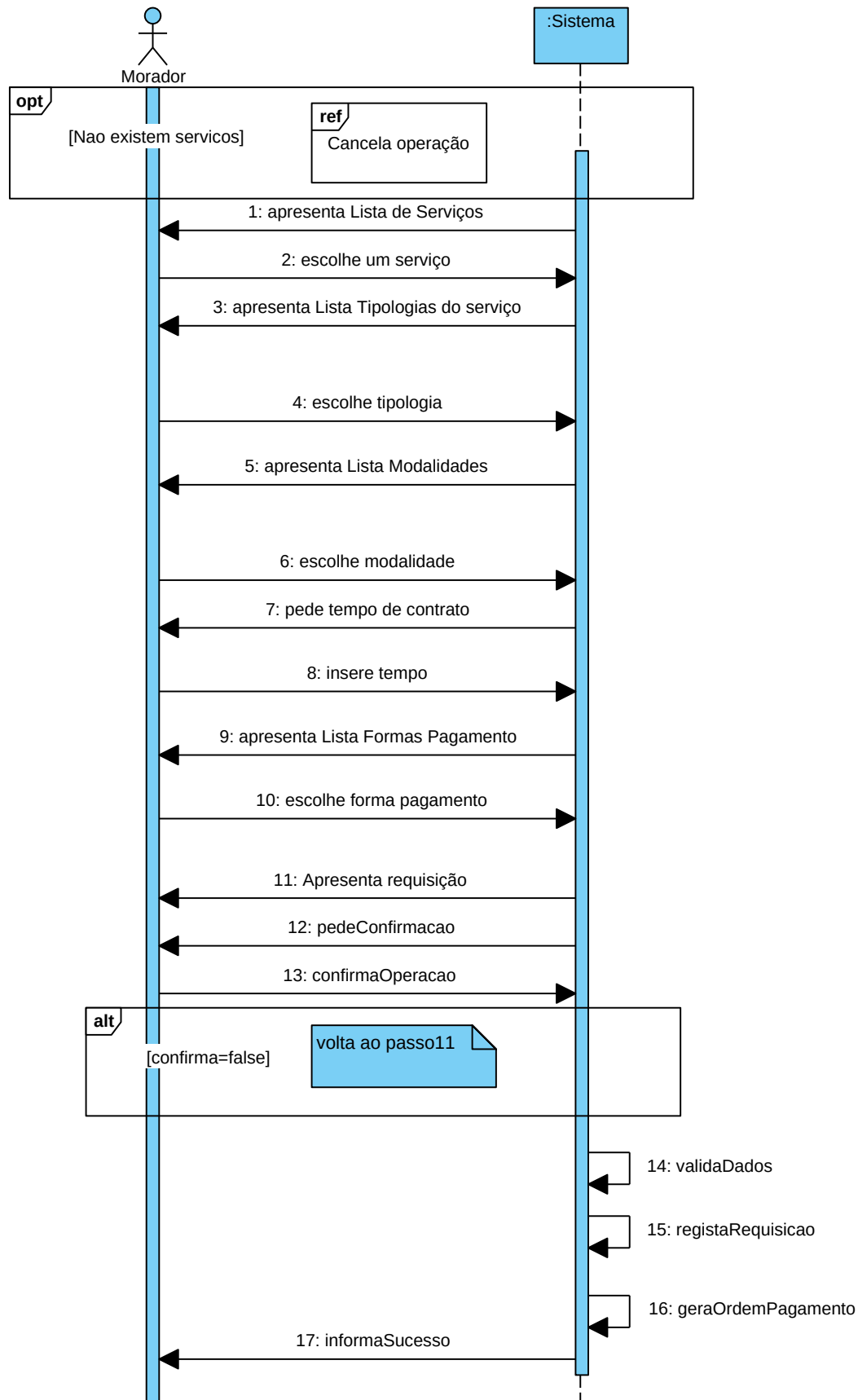
Name	Documentation
 InteractionUse	

InteractionUse

Name	Value
Refers To	 Gerar Estorno - DS Subsistemas - passo2

Sequence Diagram

Requisitar Serviço passo1



Summary

Name	Documentation
 :Sistema	
 Morador	
 Nao existem servicos	
 Operand	
 InteractionUse3	
 confirma=false	
 Operand	
 N/A	volta ao passo11

Details

:Sistema

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresenta Lista de Serviços : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	1	
Asynchronous	false	

escolhe um serviço : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresenta Lista Tipologias do serviço : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	3	
Asynchronous	false	

escolhe tipologia : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

apresenta Lista Modalidades : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	5	
Asynchronous	false	

escolhe modalidade : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	6	
Asynchronous	false	

pede tempo de contrato : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	7	
Asynchronous	false	

insere tempo : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	8	
Asynchronous	false	

apresenta Lista Formas Pagamento : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	9	
Asynchronous	false	

escolhe forma pagamento : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	10	
Asynchronous	false	

Apresenta requisição : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	11	
Asynchronous	false	

pedeConfirmacao : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	12	
Asynchronous	false	

confirmaOperacao : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	13	
Asynchronous	false	

validaDados : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Self Message	
Sequence Number	14	
Asynchronous	false	

validaDados : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Self Message	
Sequence Number	14	
Asynchronous	false	

registraRequisicao : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Self Message	
Sequence Number	15	
Asynchronous	false	

registraRequisicao : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Self Message	
Sequence Number	15	
Asynchronous	false	

geraOrdemPagamento : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Self Message	
Sequence Number	16	
Asynchronous	false	

geraOrdemPagamento : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Self Message	
Sequence Number	16	
Asynchronous	false	

informaSucesso : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	17	
Asynchronous	false	



Morador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresenta Lista de Serviços : Message		
To	Name	Value
	End Model Element	Morador
Type	Message	
Sequence Number	1	
Asynchronous	false	

escolhe um serviço : Message		
To	Name	Value
	End Model Element	:Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresenta Lista Tipologias do serviço : Message		
To	Name	Value
	End Model Element	Morador
Type	Message	
Sequence Number	3	
Asynchronous	false	

escolhe tipologia : Message		
To	Name	Value
	End Model Element	:Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

apresenta Lista Modalidades : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	5	
Asynchronous	false	

escolhe modalidade : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	6	
Asynchronous	false	

pede tempo de contrato : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	7	
Asynchronous	false	

insere tempo : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	8	
Asynchronous	false	

apresenta Lista Formas Pagamento : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	9	
Asynchronous	false	

escolhe forma pagamento : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	10	
Asynchronous	false	

Apresenta requisição : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	11	
Asynchronous	false	

pedeConfirmacao : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	12	
Asynchronous	false	

confirmaOperacao : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	13	
Asynchronous	false	

informaSucesso : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	17	
Asynchronous	false	

Nao existem servicos

Name	Value
Interaction Operator	opt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Morador	
 :Sistema	

Operand

Name	Value	
Guard	Name	Value
	Constraint	Nao existem servicos

InteractionUse3

Name	Value
Refers To	 Cancela operação

confirma=false

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Morador	
 :Sistema	

Operand

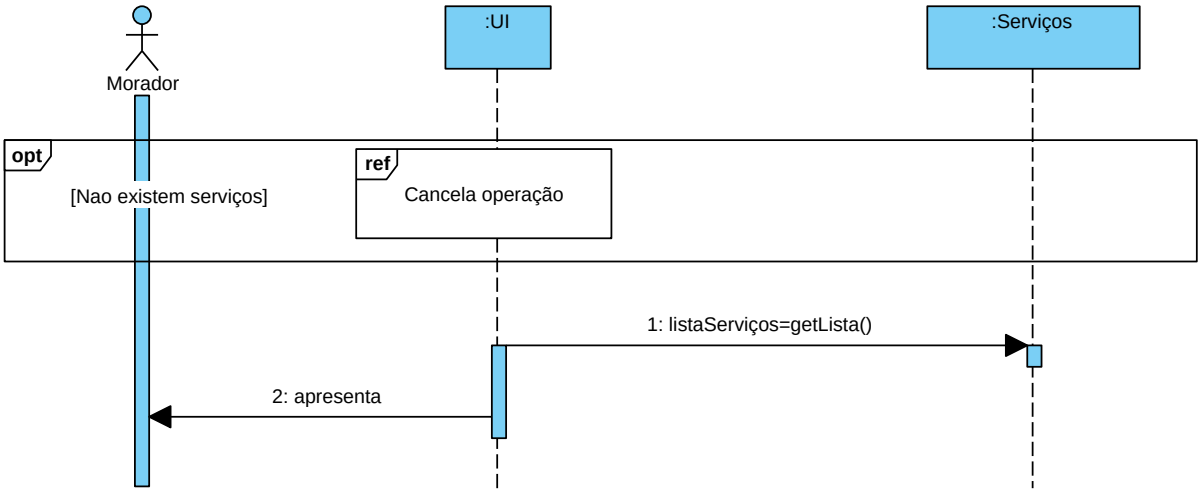
Name	Value	
Guard	Name	Value
	Constraint	confirma=false

N/A

Name	Value
Documentation	volta ao passo11

Sequence Diagram

Requisitar Serviço passo2



Summary

Name	Documentation
:UI	
:Serviços	
Morador	
Nao existem serviços	
Operand	
InteractionUse4	

Details

:UI

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

listaServiços=getLista() : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Message	
Sequence Number	1	
Asynchronous	false	

apresenta : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	2	
Asynchronous	false	

:Serviços

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

listaServiços=getLista() : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Message	
Sequence Number	1	
Asynchronous	false	

Morador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresenta : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	2	
Asynchronous	false	

Nao existem serviços

Name	Value
Interaction Operator	opt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Morador	
 :UI	
 :Serviços	

Operand

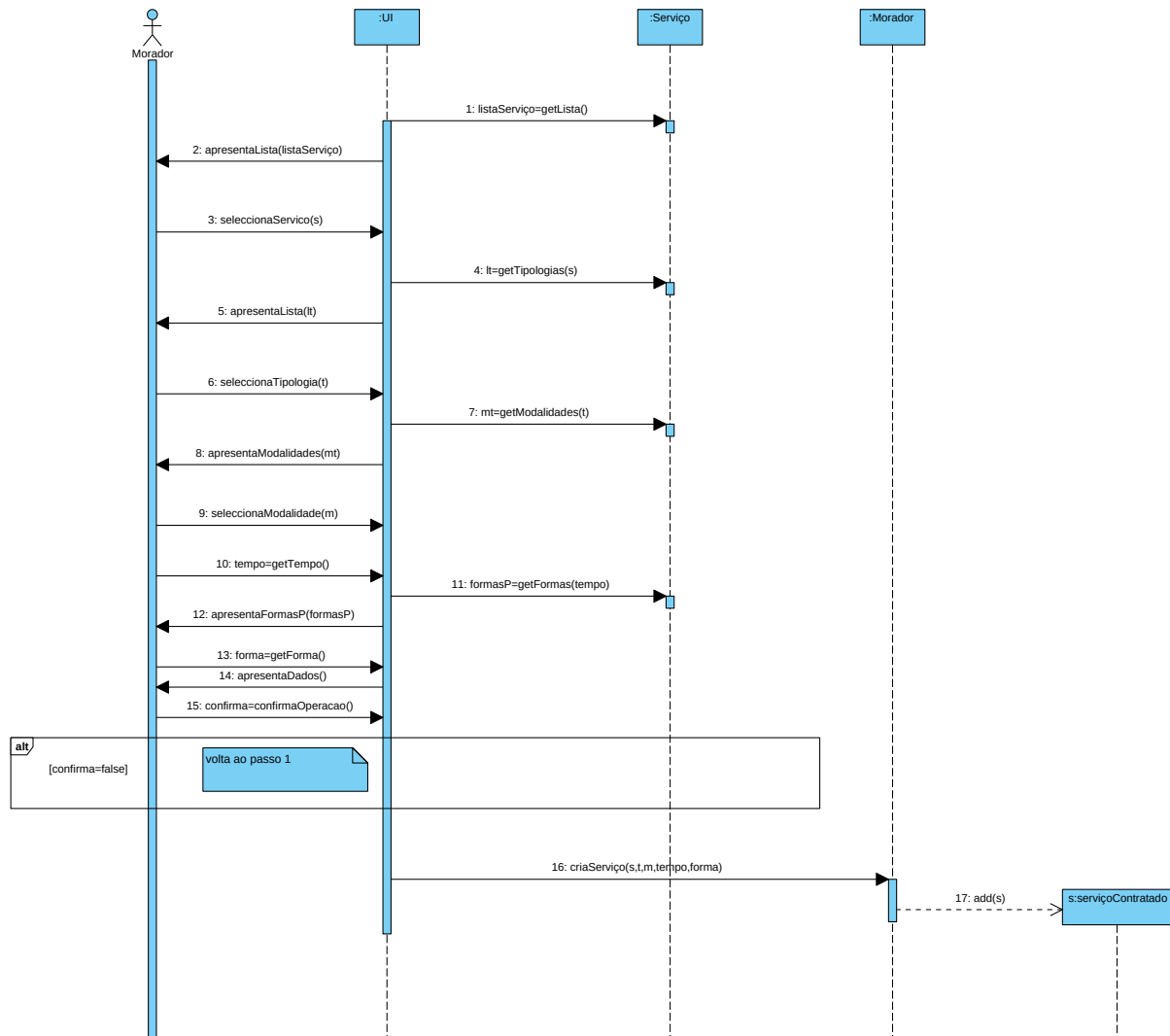
Name	Value	
Guard	Name	Value
	Constraint	Nao existem serviços

InteractionUse4

Name	Value
Refers To	 Cancela operação

Sequence Diagram

Requisitar Serviço passo3



Summary

Name	Documentation
:UI	
:Serviço	
Morador	
:Morador	
s:serviçoContratado	
confirma=false	
Operand	
N/A	volta ao passo 1

Details

 :UI

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

listaServiço=getLista() : Message		
To	Name	Value
	End Model Element	 :Serviço
Type	Message	
Sequence Number	1	
Asynchronous	false	

apresentaLista(listaServiço) : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	2	
Asynchronous	false	

selecionaServico(s) : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	3	
Asynchronous	false	

It=getTipologias(s) : Message		
To	Name	Value
	End Model Element	 :Serviço
Type	Message	
Sequence Number	4	
Asynchronous	false	

apresentaLista(it) : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	5	
Asynchronous	false	

selecionaTipologia(t) : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	6	
Asynchronous	false	

mt=getModalidades(t) : Message		
To	Name	Value
	End Model Element	 :Serviço
Type	Message	
Sequence Number	7	
Asynchronous	false	

apresentaModalidades(mt) : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	8	
Asynchronous	false	

selecionaModalidade(m) : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	9	
Asynchronous	false	

tempo=getTempo() : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	10	
Asynchronous	false	

formasP=getFormas(tempo) : Message		
To	Name	Value
	End Model Element	 :Serviço
Type	Message	
Sequence Number	11	
Asynchronous	false	

apresentaFormasP(formasP) : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	12	
Asynchronous	false	

forma=getForma() : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	13	
Asynchronous	false	

apresentaDados() : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	14	
Asynchronous	false	

confirma=confirmaOperacao() : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	15	
Asynchronous	false	

criaServiço(s,t,m,tempo,forma) : Message		
To	Name	Value
	End Model Element	 :Morador
Type	Message	
Sequence Number	16	
Asynchronous	false	

:Serviço

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

listaServiço=getLista() : Message		
To	Name	Value
	End Model Element	 :Serviço
Type	Message	
Sequence Number	1	
Asynchronous	false	

lt=getTipologias(s) : Message		
To	Name	Value
	End Model Element	 :Serviço
Type	Message	
Sequence Number	4	
Asynchronous	false	

mt=getModalidades(t) : Message		
To	Name	Value
	End Model Element	 :Serviço
Type	Message	
Sequence Number	7	
Asynchronous	false	

formasP=getFormas(tempo) : Message		
To	Name	Value
	End Model Element	 :Serviço
Type	Message	
Sequence Number	11	
Asynchronous	false	



Morador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresentaLista(listaServiço) : Message		
To	Name	Value
	End Model Element	Morador
Type	Message	
Sequence Number	2	
Asynchronous	false	

selecionaServico(s) : Message		
To	Name	Value
	End Model Element	:UI
Type	Message	
Sequence Number	3	
Asynchronous	false	

apresentaLista(It) : Message		
To	Name	Value
	End Model Element	Morador
Type	Message	
Sequence Number	5	
Asynchronous	false	

selecionaTipologia(t) : Message		
To	Name	Value
	End Model Element	:UI
Type	Message	
Sequence Number	6	
Asynchronous	false	

apresentaModalidades(mt) : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	8	
Asynchronous	false	

selecionaModalidade(m) : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	9	
Asynchronous	false	

tempo=getTempo() : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	10	
Asynchronous	false	

apresentaFormasP(formasP) : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	12	
Asynchronous	false	

forma=getForma() : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	13	
Asynchronous	false	

apresentaDados() : Message		
To	Name	Value
	End Model Element	 Morador
Type	Message	
Sequence Number	14	
Asynchronous	false	

confirma=confirmaOperacao() : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	15	
Asynchronous	false	



:Morador

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

criaServiço(s,t,m,tempo,forma) : Message		
To	Name	Value
	End Model Element	 :Morador
Type	Message	
Sequence Number	16	
Asynchronous	false	

add(s) : Message		
To	Name	Value
	End Model Element	 s:serviçoContratado
Type	Create Message	
Sequence Number	17	
Asynchronous	false	



s:serviçoContratado

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

add(s) : Message		
To	Name	Value
	End Model Element	 s:serviçoContratado
Type	Create Message	
Sequence Number	17	
Asynchronous	false	

confirma=false

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 :UI	
 Morador	
 :Serviço	

Operand

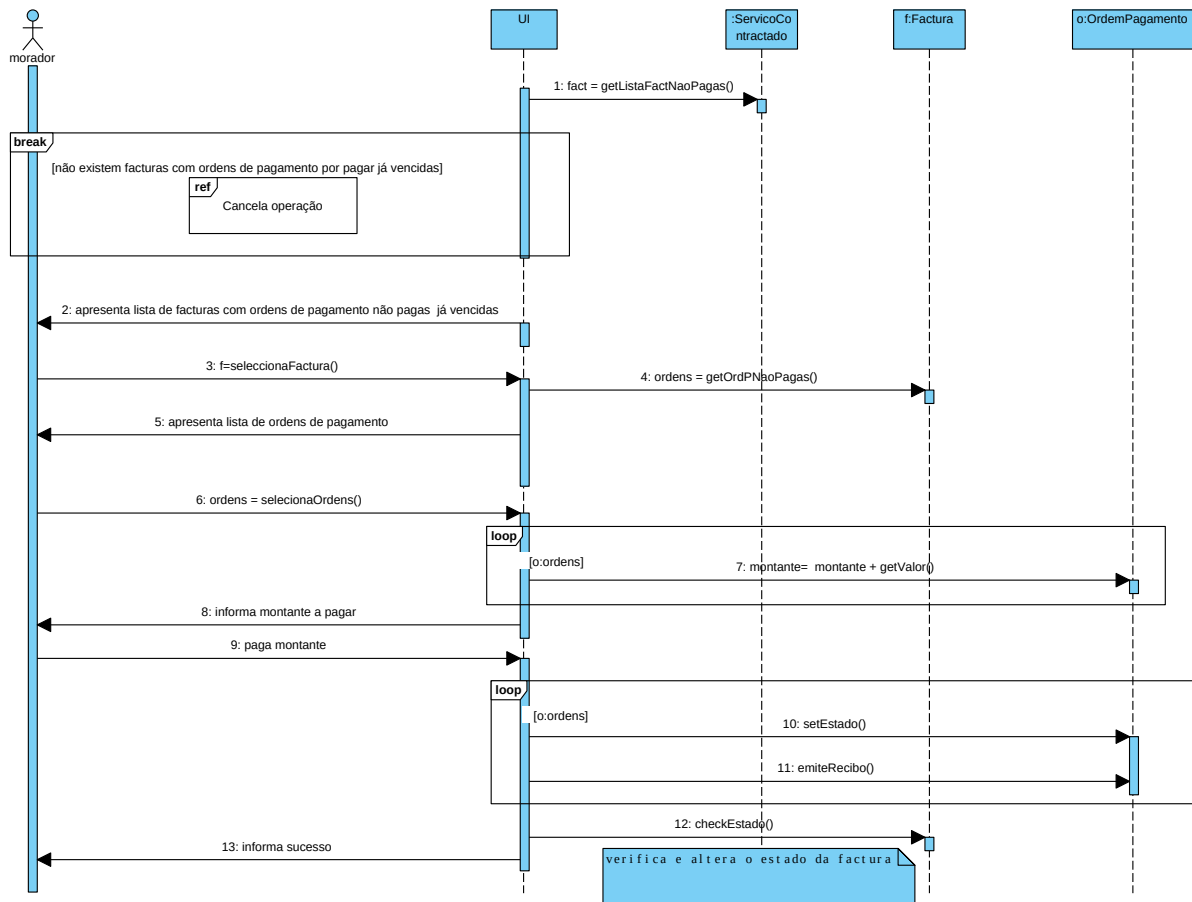
Name	Value	
Guard	Name	Value
	Constraint	confirma=false

N/A

Name	Value
Documentation	volta ao passo 1

Sequence Diagram

pagar Facturas passo 3



Summary

Name	Documentation
morador	
UI	
:ServicoContractado	
f:Factura	
o:OrdemPagamento	
InteractionUse4	
não existem facturas com ordens de pagamento por pagar já vencidas	
Operand	
o:ordens	
Operand	
o:ordens	
Operand	

 N/A	verifica e altera o estado da factura

Details

morador

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false
Referenced Actor	 morador

Relationships

apresenta lista de facturas com ordens de pagamento não pagas já vencidas : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	2	
Asynchronous	false	

f=seleccionaFactura() : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	3	
Asynchronous	false	

apresenta lista de ordens de pagamento : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	5	
Asynchronous	false	

ordens = seleccionaOrdens() : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	6	
Asynchronous	false	

informa montante a pagar : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	8	
Asynchronous	false	

paga montante : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	9	
Asynchronous	false	

informa sucesso : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	13	
Asynchronous	false	



UI

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

fact = getListaFactNaoPagas() : Message		
To	Name	Value
	End Model Element	 :ServicoContractado
Type	Message	
Sequence Number	1	
Asynchronous	false	

apresenta lista de facturas com ordens de pagamento não pagas já vencidas : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	2	
Asynchronous	false	

f=seleccionaFactura() : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	3	
Asynchronous	false	

ordens = getOrdPNaoPagas() : Message		
To	Name	Value
	End Model Element	 f:Factura
Type	Message	
Sequence Number	4	
Asynchronous	false	

apresenta lista de ordens de pagamento : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	5	
Asynchronous	false	

ordens = selecionaOrdens() : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	6	
Asynchronous	false	

montante= montante + getValor() : Message		
To	Name	Value
	End Model Element	 o:OrdemPagamento
Type	Message	
Sequence Number	7	
Asynchronous	false	

informa montante a pagar : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	8	
Asynchronous	false	

paga montante : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	9	
Asynchronous	false	

setEstado() : Message		
To	Name	Value
	End Model Element	 o:OrdemPagamento
Type	Message	
Sequence Number	10	
Asynchronous	false	

emiteRecibo() : Message		
To	Name	Value
	End Model Element	 o:OrdemPagamento
Type	Message	
Sequence Number	11	
Asynchronous	false	

checkEstado() : Message		
To	Name	Value
	End Model Element	 f:Factura
Type	Message	
Sequence Number	12	
Asynchronous	false	

informa sucesso : Message		
To	Name	Value
	End Model Element	 morador
Type	Message	
Sequence Number	13	
Asynchronous	false	

:ServicoContractado

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

fact = getListaFactNaoPagas() : Message		
To	Name	Value
	End Model Element	 :ServicoContractado
Type	Message	
Sequence Number	1	
Asynchronous	false	

f:Factura

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

ordens = getOrdPNaoPagas() : Message		
To	Name	Value
	End Model Element	 f:Factura
Type	Message	
Sequence Number	4	
Asynchronous	false	

checkEstado() : Message		
To	Name	Value
	End Model Element	 f:Factura
Type	Message	
Sequence Number	12	
Asynchronous	false	

o:OrdemPagamento

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

montante= montante + getValor() : Message		
To	Name	Value
	End Model Element	 o:OrdemPagamento
Type	Message	
Sequence Number	7	
Asynchronous	false	

setEstado() : Message		
To	Name	Value
	End Model Element	 o:OrdemPagamento
Type	Message	
Sequence Number	10	
Asynchronous	false	

emiteRecibo() : Message		
To	Name	Value
	End Model Element	 o:OrdemPagamento
Type	Message	
Sequence Number	11	
Asynchronous	false	

InteractionUse4

Name	Value
Refers To	 Cancela operação

não existem facturas com ordens de pagamento por pagar já vencidas

Name	Value
Interaction Operator	break

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 morador	
 UI	

Operand

Name	Value	
Guard	Name	Value
	Constraint	não existem facturas com ordens de pagamento por pagar já vencidas

Children

Name	Documentation
 InteractionUse4	

o:ordens

Name	Value
Interaction Operator	loop

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 UI	
 :ServicoContractado	
 f:Factura	
 o:OrdemPagamento	



Operand

Name	Value	
Guard	Name	Value
	Constraint	o:ordens



o:ordens

Name	Value
Interaction Operator	loop

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
UI	
:ServicoContractado	
f:Factura	
o:OrdemPagamento	



Operand

Name	Value	
Guard	Name	Value
	Constraint	o:ordens

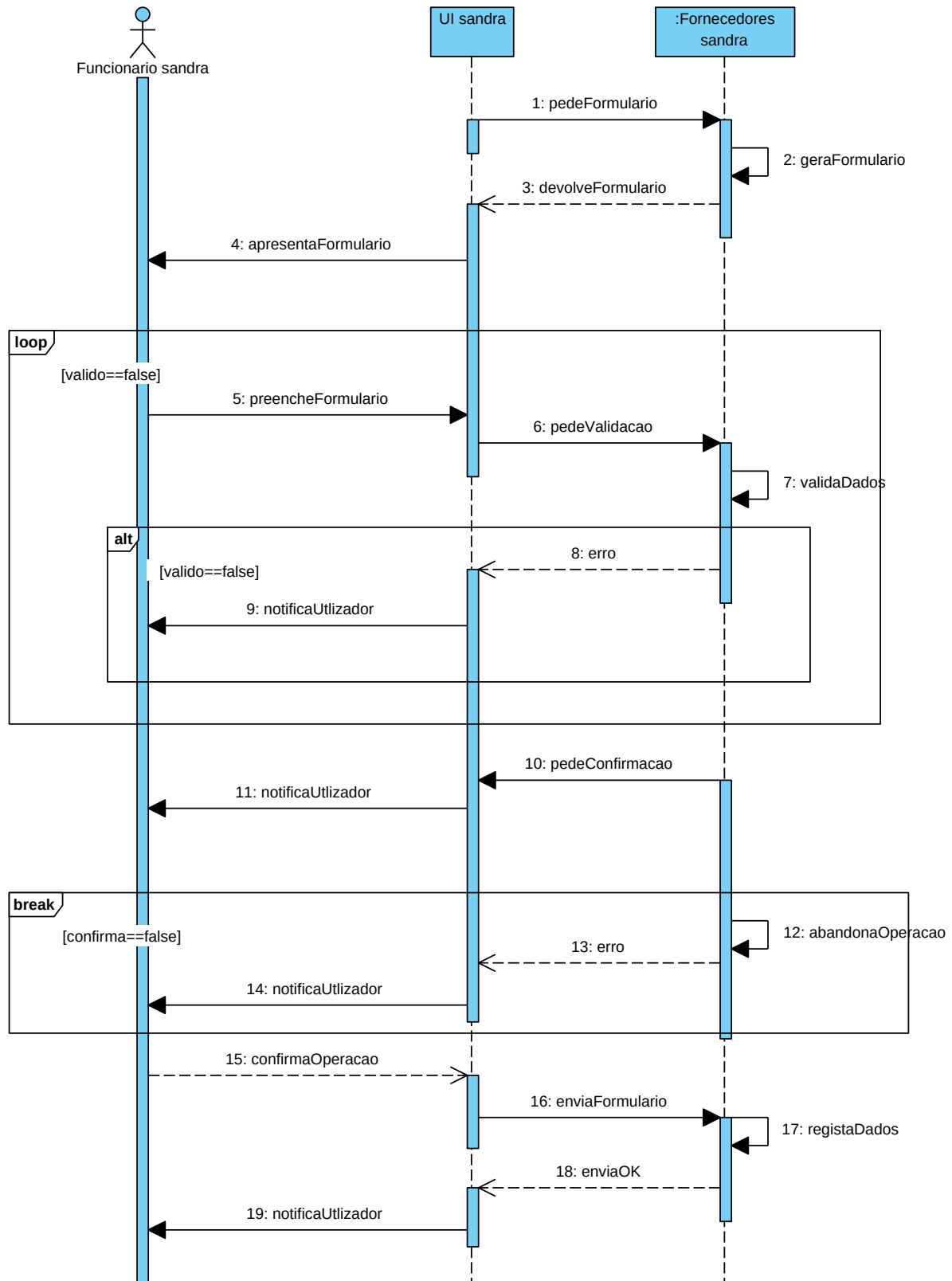


N/A

Name	Value
Documentation	verifica e altera o estado da factura

Sequence Diagram

Adicionar Fornecedor passo 2



Summary

Name	Documentation
 Funcionario sandra	
 UI sandra	
 :Fornecedores sandra	
 valido==false	
 Operand	
 valido==false	
 Operand	
 confirma==false	
 Operand	

Details

Funcionario sandra

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresentaFormulario : Message		
To	Name	Value
	End Model Element	 Funcionario sandra
Type	Message	
Sequence Number	4	
Asynchronous	false	

preencheFormulario : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	5	
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Funcionario sandra
Type	Message	
Sequence Number	9	
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Funcionario sandra
Type	Message	
Sequence Number	11	
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Funcionario sandra
Type	Message	
Sequence Number	14	
Asynchronous	false	

confirmaOperacao : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	15	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Funcionario sandra
Type	Message	
Sequence Number	19	
Asynchronous	false	

UI sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

pedeFormulario : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Message	
Sequence Number	1	
Asynchronous	false	

devolveFormulario : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

apresentaFormulario : Message		
To	Name	Value
	End Model Element	 Funcionario sandra
Type	Message	
Sequence Number	4	
Asynchronous	false	

preencheFormulario : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	5	
Asynchronous	false	

pedeValidacao : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Message	
Sequence Number	6	
Asynchronous	false	

erro : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	8	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

notificaUtlizador : Message		
To	Name	Value
	End Model Element	 Funcionario sandra
Type	Message	
Sequence Number	9	
Asynchronous	false	

pedeConfirmacao : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	10	
Asynchronous	false	

notificaUtlizador : Message		
To	Name	Value
	End Model Element	 Funcionario sandra
Type	Message	
Sequence Number	11	
Asynchronous	false	

erro : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	13	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Funcionario sandra
Type	Message	
Sequence Number	14	
Asynchronous	false	

confirmaOperacao : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	15	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

enviaFormulario : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Message	
Sequence Number	16	
Asynchronous	false	

enviaOK : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	18	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Funcionario sandra
Type	Message	
Sequence Number	19	
Asynchronous	false	

:Fornecedores sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

pedeFormulario : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Message	
Sequence Number	1	
Asynchronous	false	

geraFormulario : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Self Message	
Sequence Number	2	
Asynchronous	false	

geraFormulario : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Self Message	
Sequence Number	2	
Asynchronous	false	

devolveFormulario : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

pedeValidacao : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Message	
Sequence Number	6	
Asynchronous	false	

validaDados : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Self Message	
Sequence Number	7	
Asynchronous	false	

validaDados : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Self Message	
Sequence Number	7	
Asynchronous	false	

erro : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	8	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

pedeConfirmacao : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	10	
Asynchronous	false	

abandonaOperacao : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Self Message	
Sequence Number	12	
Asynchronous	false	

abandonaOperacao : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Self Message	
Sequence Number	12	
Asynchronous	false	

erro : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	13	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

enviaFormulario : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Message	
Sequence Number	16	
Asynchronous	false	

registraDados : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Self Message	
Sequence Number	17	
Asynchronous	false	

registraDados : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Self Message	
Sequence Number	17	
Asynchronous	false	

enviaOK : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	18	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	



valido==false

Name	Value
Interaction Operator	loop

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Funcionario sandra	
 UI sandra	
 :Fornecedores sandra	



Operand

Name	Value	
Guard	Name	Value
	Constraint	valido==false

Children

Name	Documentation
 valido==false	



valido==false

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Funcionario sandra	
 UI sandra	
 :Fornecedores sandra	



Operand

Name	Value	
Guard	Name	Value
	Constraint	valido==false



confirma==false

Name	Value
Interaction Operator	break

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Funcionario sandra	
 UI sandra	
 :Fornecedores sandra	

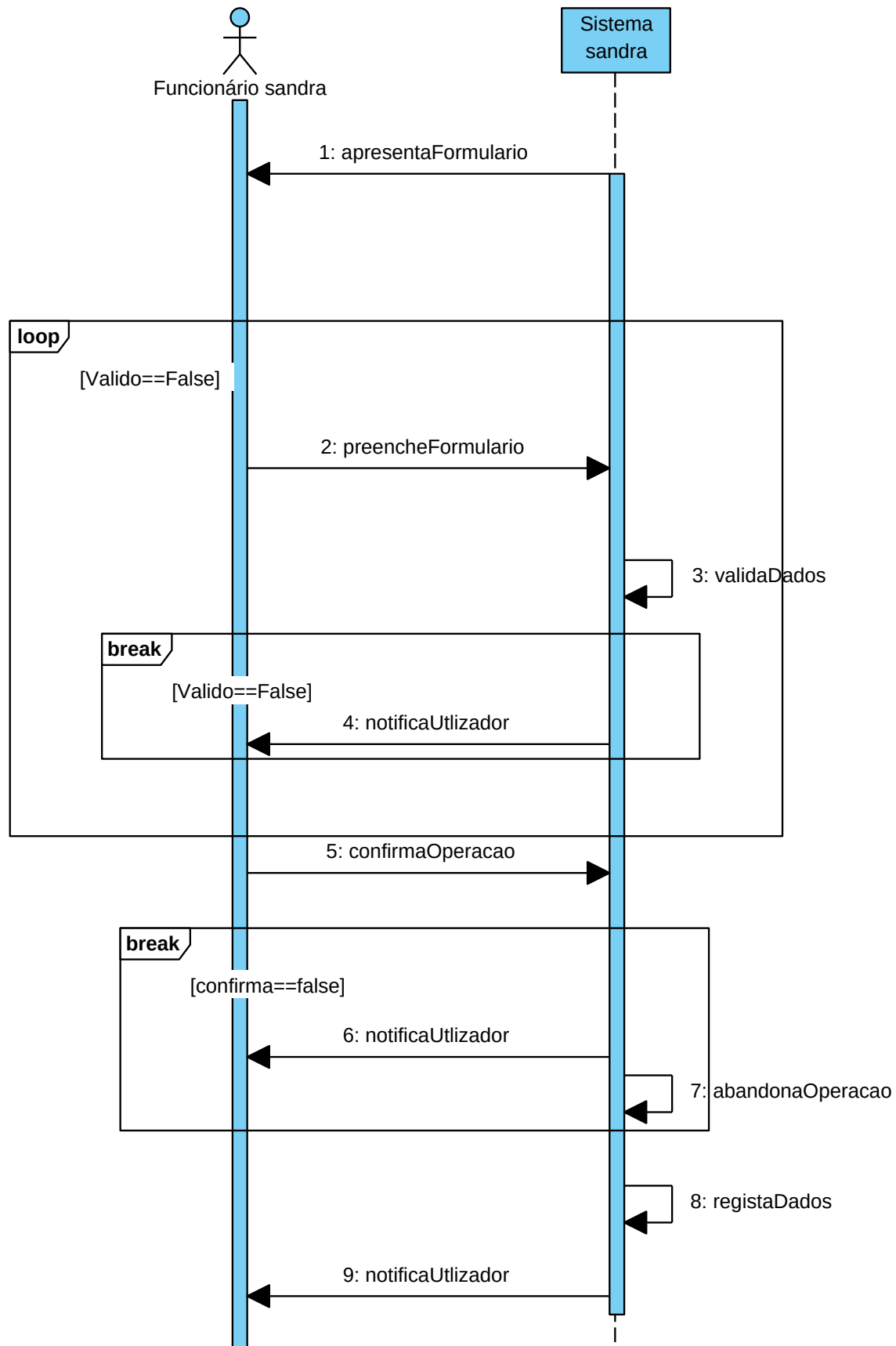


Operand

Name	Value	
Guard	Name	Value
	Constraint	confirma==false

Sequence Diagram

Adicionar Fornecedor passo1



Summary

Name	Documentation
 Sistema sandra	
 Funcionário sandra	
 Valido==False	
 Operand	
 Valido==False	
 confirma==false	
 Operand	
 Operand	

Details

Sistema sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresentaFormulario : Message		
To	Name	Value
	End Model Element	 Funcionário sandra
Type	Message	
Sequence Number	1	
Asynchronous	false	

preencheFormulario : Message		
To	Name	Value
	End Model Element	 Sistema sandra
Type	Message	
Sequence Number	2	
Action Type	Name	Value
	Name	Call
	Iteration	false
	Asynchronous	false
	Operation Type	0
Asynchronous	false	

validaDados : Message		
To	Name	Value
	End Model Element	 Sistema sandra
Type	Self Message	
Sequence Number	3	
Asynchronous	false	

validaDados : Message		
To	Name	Value
	End Model Element	 Sistema sandra
Type	Self Message	
Sequence Number	3	
Asynchronous	false	

notificaUtlizador : Message		
To	Name	Value
	End Model Element	 Funcionário sandra
Type	Message	
Sequence Number	4	
Action Type	Name	Value
	Name	Call
	Iteration	false
	Asynchronous	false
	Operation Type	0
Asynchronous	false	

confirmaOperacao : Message		
To	Name	Value
	End Model Element	 Sistema sandra
Type	Message	
Sequence Number	5	
Action Type	Name	Value
	Name	Call
	Iteration	false
	Asynchronous	false
	Operation Type	0
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Funcionário sandra
Type	Message	
Sequence Number	6	
Action Type	Name	Value
	Name	Call
	Iteration	false
	Asynchronous	false
	Operation Type	0
Asynchronous	false	

abandonaOperacao : Message		
To	Name	Value
	End Model Element	 Sistema sandra
Type	Self Message	
Sequence Number	7	
Action Type	Name	Value
	Name	Call
	Iteration	false
	Asynchronous	false
	Operation Type	0
Asynchronous	false	

abandonaOperacao : Message		
To	Name	Value
	End Model Element	 Sistema sandra
Type	Self Message	
Sequence Number	7	
Action Type	Name	Value
	Name	Call
	Iteration	false
	Asynchronous	false
	Operation Type	0
Asynchronous	false	

registraDados : Message		
To	Name	Value
	End Model Element	 Sistema sandra
Type	Self Message	
Sequence Number	8	
Action Type	Name	Value
	Name	Call
	Iteration	false
	Asynchronous	false
	Operation Type	0
Asynchronous	false	

registraDados : Message		
To	Name	Value
	End Model Element	 Sistema sandra
Type	Self Message	
Sequence Number	8	
Action Type	Name	Value
	Name	Call
	Iteration	false
	Asynchronous	false
	Operation Type	0
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Funcionário sandra
Type	Message	
Sequence Number	9	
Action Type	Name	Value
	Name	Call
	Iteration	false
	Asynchronous	false
	Operation Type	0
Asynchronous	false	

Funcionário sandra

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresentaFormulario : Message		
To	Name	Value
	End Model Element	 Funcionário sandra
Type	Message	
Sequence Number	1	
Asynchronous	false	

preencheFormulario : Message		
To	Name	Value
	End Model Element	 Sistema sandra
Type	Message	
Sequence Number	2	
Action Type	Name	Value
	Name	Call
	Iteration	false
	Asynchronous	false
	Operation Type	0
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Funcionário sandra
Type	Message	
Sequence Number	4	
Action Type	Name	Value
	Name	Call
	Iteration	false
	Asynchronous	false
	Operation Type	0
Asynchronous	false	

confirmaOperacao : Message		
To	Name	Value
	End Model Element	 Sistema sandra
Type	Message	
Sequence Number	5	
Action Type	Name	Value
	Name	Call
	Iteration	false
	Asynchronous	false
	Operation Type	0
Asynchronous	false	

notificaUtlizador : Message		
To	Name	Value
	End Model Element	 Funcionário sandra
Type	Message	
Sequence Number	6	
Action Type	Name	Value
	Name	Call
	Iteration	false
	Asynchronous	false
	Operation Type	0
Asynchronous	false	

notificaUtlizador : Message		
To	Name	Value
	End Model Element	 Funcionário sandra
Type	Message	
Sequence Number	9	
Action Type	Name	Value
	Name	Call
	Iteration	false
	Asynchronous	false
	Operation Type	0
Asynchronous	false	

 Valido==False

Name	Value
Interaction Operator	loop

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Funcionário sandra	
 Sistema sandra	

Operand

Name	Value	
Guard	Name	Value
	Constraint	Valido==False

Children

Name	Documentation
 Valido==False	

Valido==False

Name	Value
Interaction Operator	break

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Funcionário sandra	
 Sistema sandra	

confirma==false

Name	Value
Interaction Operator	break

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Funcionário sandra	
 Sistema sandra	

Operand

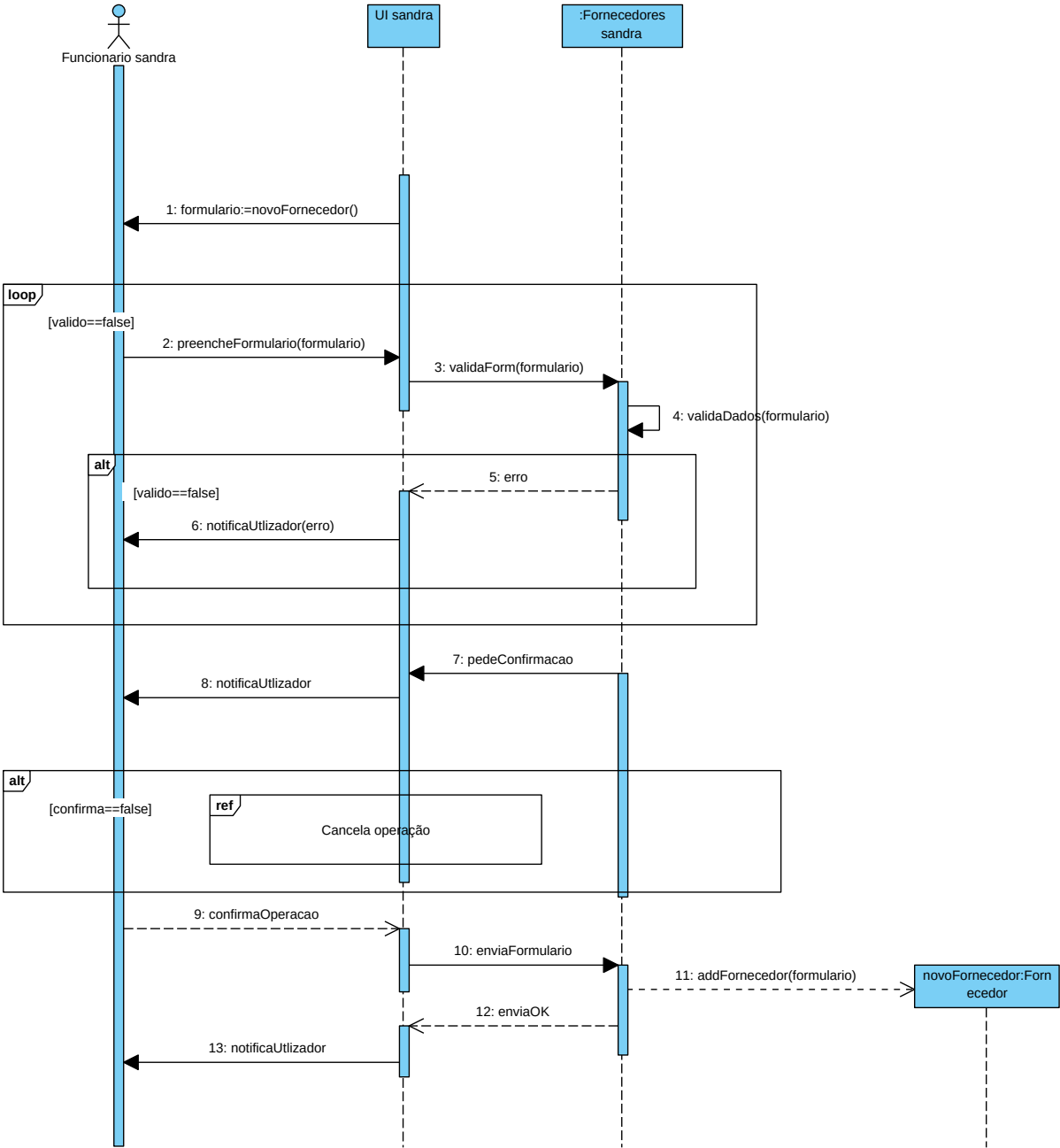
Name	Value	
Guard	Name	Value
	Constraint	confirma==false

Operand

Name	Value	
Guard	Name	Value
	Constraint	Valido==False

Sequence Diagram

Adicionar Fornecedor passo3



Summary

Name	Documentation
 Funcionario sandra	
 UI sandra	
 :Fornecedores sandra	
 novoFornecedor:Fornecedor	
 valido==false	

 Operand	
 valido==false	
 confirma==false	
 Operand	
 InteractionUse	
 Operand	

Details



Funcionario sandra

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

formulario:=novoFornecedor() : Message		
To	Name	Value
	End Model Element	 Funcionario sandra
Type	Message	
Sequence Number	1	
Asynchronous	false	

preencheFormulario(formulario) : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	2	
Asynchronous	false	

notificaUtlizador(erro) : Message		
To	Name	Value
	End Model Element	 Funcionario sandra
Type	Message	
Sequence Number	6	
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Funcionario sandra
Type	Message	
Sequence Number	8	
Asynchronous	false	

confirmaOperacao : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	9	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Funcionario sandra
Type	Message	
Sequence Number	13	
Asynchronous	false	



UI sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

formulario:=novoFornecedor() : Message		
To	Name	Value
	End Model Element	 Funcionario sandra
Type	Message	
Sequence Number	1	
Asynchronous	false	

preencheFormulario(formulario) : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	2	
Asynchronous	false	

validaForm(formulario) : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Message	
Sequence Number	3	
Asynchronous	false	

erro : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	5	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

notificaUtilizador(erro) : Message		
To	Name	Value
	End Model Element	 Funcionario sandra
Type	Message	
Sequence Number	6	
Asynchronous	false	

pedeConfirmacao : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	7	
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Funcionario sandra
Type	Message	
Sequence Number	8	
Asynchronous	false	

confirmaOperacao : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	9	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

enviaFormulario : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Message	
Sequence Number	10	
Asynchronous	false	

enviaOK : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	12	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Funcionario sandra
Type	Message	
Sequence Number	13	
Asynchronous	false	

:Fornecedores sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

validaForm(formulario) : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Message	
Sequence Number	3	
Asynchronous	false	

validaDados(formulario) : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Self Message	
Sequence Number	4	
Asynchronous	false	

validaDados(formulario) : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Self Message	
Sequence Number	4	
Asynchronous	false	

erro : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	5	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

pedeConfirmacao : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	7	
Asynchronous	false	

enviaFormulario : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Message	
Sequence Number	10	
Asynchronous	false	

addFornecedor(formulario) : Message		
To	Name	Value
	End Model Element	 novoFornecedor:Fornecedor
Type	Create Message	
Sequence Number	11	
Asynchronous	false	

enviaOK : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	12	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	



novoFornecedor:Fornecedor

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

addFornecedor(formulario) : Message		
To	Name	Value
	End Model Element	 novoFornecedor:Fornecedor
Type	Create Message	
Sequence Number	11	
Asynchronous	false	

valido==false

Name	Value
Interaction Operator	loop

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Funcionario sandra	
 UI sandra	
 :Fornecedores sandra	

Operand

Name	Value	
Guard	Name	Value
	Constraint	valido==false

Children

Name	Documentation
 valido==false	

valido==false

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Funcionario sandra	
 UI sandra	
 :Fornecedores sandra	

confirma==false

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Funcionario sandra	
 UI sandra	
 :Fornecedores sandra	

Operand

Name	Value	
Guard	Name	Value
	Constraint	confirma==false

Children

Name	Documentation
 InteractionUse	

InteractionUse

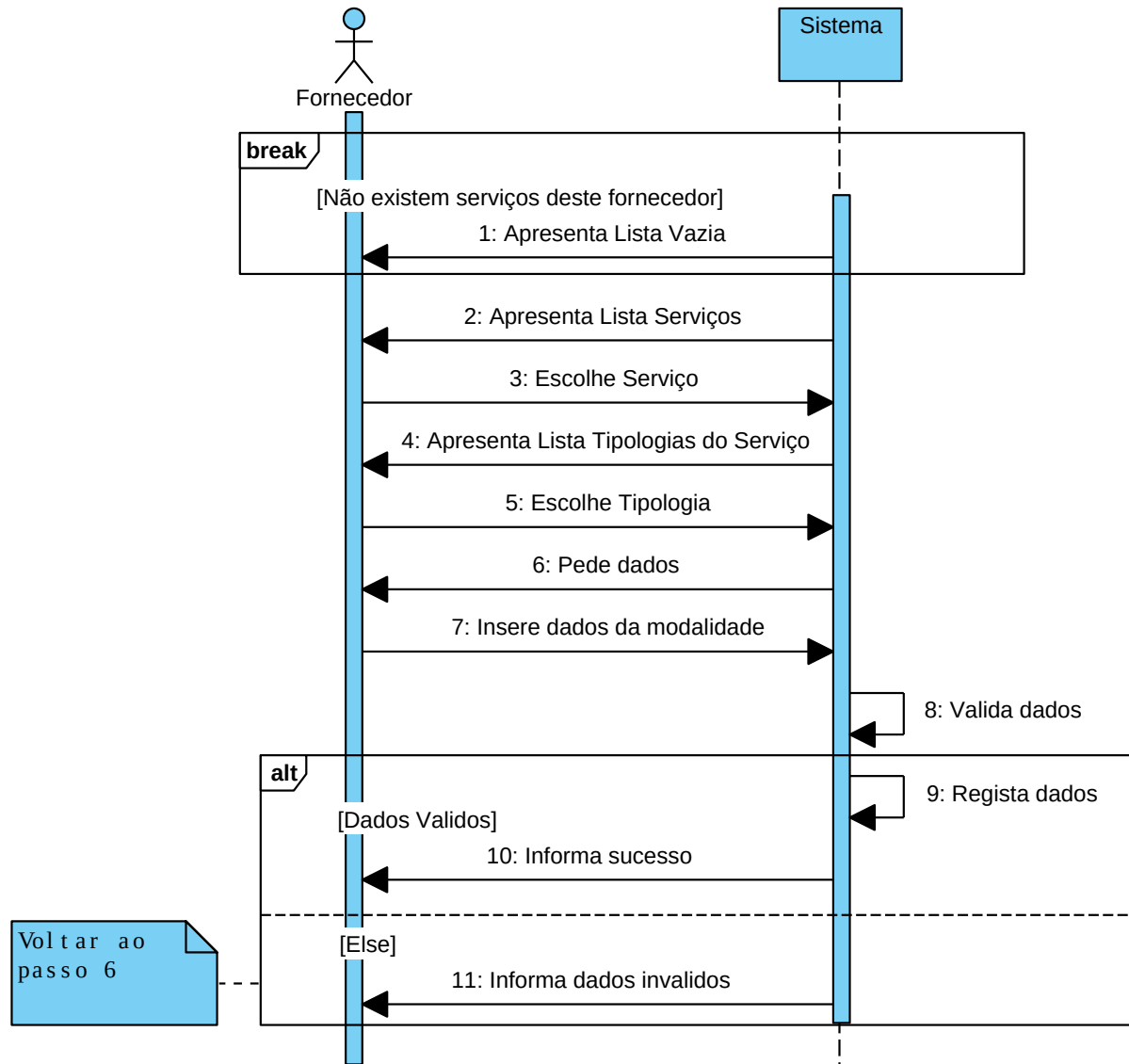
Name	Value
Refers To	 Cancela operação

Operand

Name	Value	
Guard	Name	Value
	Constraint	valido==false

Sequence Diagram

Adicionar Modalidade - Passo 1 - Diagrama de Sequencia de Sistema



Summary

Name	Documentation
 Sistema	
 Fornecedor	
 Não existem serviços deste fornecedor	
 Operand	
 Dados Validos	
 Operand	

 Operand2	
 N/A	Voltar ao passo 6

Details

Sistema

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

Apresenta Lista Vazia : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	1	
Asynchronous	false	

Apresenta Lista Serviços : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	2	
Asynchronous	false	

Escolhe Serviço : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	3	
Asynchronous	false	

Apresenta Lista Tipologias do Serviço : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	4	
Asynchronous	false	

Escolhe Tipologia : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	5	
Asynchronous	false	

Pede dados : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	6	
Asynchronous	false	

Insere dados da modalidade : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	7	
Asynchronous	false	

Valida dados : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	8	
Asynchronous	false	

Valida dados : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	8	
Asynchronous	false	

Regista dados : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	9	
Asynchronous	false	

Regista dados : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	9	
Asynchronous	false	

Informa sucesso : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	10	
Asynchronous	false	

Informa dados invalidos : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	11	
Asynchronous	false	



Fornecedor

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

Apresenta Lista Vazia : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	1	
Asynchronous	false	

Apresenta Lista Serviços : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	2	
Asynchronous	false	

Escolhe Serviço : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	3	
Asynchronous	false	

Apresenta Lista Tipologias do Serviço : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	4	
Asynchronous	false	

Escolhe Tipologia : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	5	
Asynchronous	false	

Pede dados : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	6	
Asynchronous	false	

Insere dados da modalidade : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	7	
Asynchronous	false	

Informa sucesso : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	10	
Asynchronous	false	

Informa dados invalidos : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	11	
Asynchronous	false	

Não existem serviços deste fornecedor

Name	Value
Interaction Operator	break

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Sistema	
 Fornecedor	

Operand

Name	Value	
Guard	Name	Value
	Constraint	Não existem serviços deste fornecedor

Dados Validos

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand
Operand2

Covered LifeLines

Name	Documentation
 Sistema	
 Fornecedor	

Operand

Name	Value	
Guard	Name	Value
	Constraint	Dados Validos

Operand2

Name	Value	
Guard	Name	Value
	Constraint	Else

N/A

Name	Value
Documentation	Voltar ao passo 6

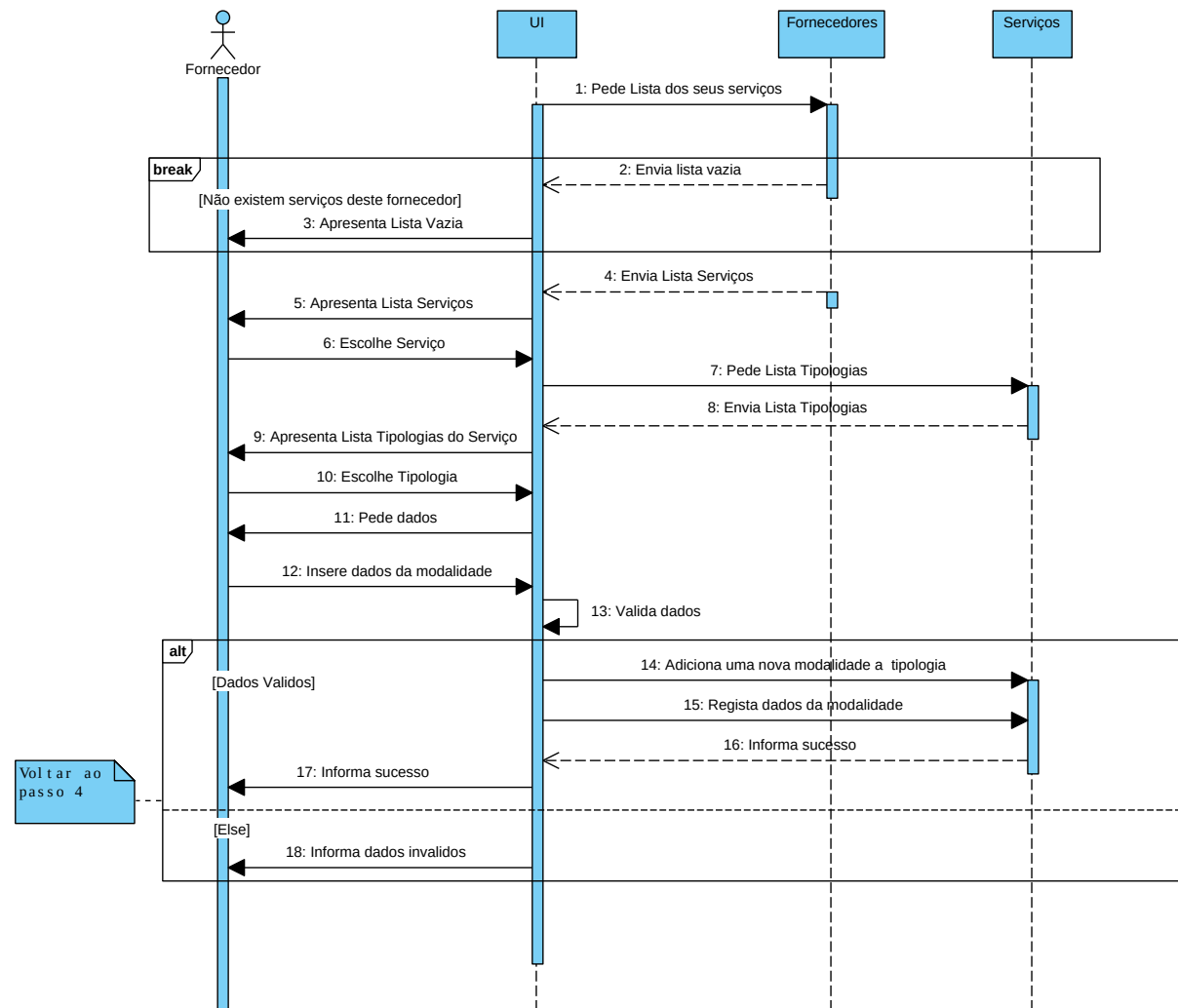
Relationships

Unnamed Anchor	
From	 Dados Validos

Sequence Diagram

Adicionar Modalidade - Passo 3

- Diagrama de Sequencia com Subsistemas



Summary

Name	Documentation
UI	
Fornecedor	
Fornecedores	
Serviços	
Não existem serviços deste fornecedor	
Operand	
Dados Validos	

 Operand	
 Operand2	
 N/A	Voltar ao passo 4

Details



Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

Pede Lista dos seus serviços : Message		
To	Name	Value
	End Model Element	 Fornecedores
Type	Message	
Sequence Number	1	
Asynchronous	false	

Envia lista vazia : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	2	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Apresenta Lista Vazia : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	3	
Asynchronous	false	

Envia Lista Serviços : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	4	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Apresenta Lista Serviços : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	5	
Asynchronous	false	

Escolhe Serviço : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	6	
Asynchronous	false	

Pede Lista Tipologias : Message		
To	Name	Value
	End Model Element	 Serviços
Return Message	→ Envia Lista Tipologias	
Type	Message	
Sequence Number	7	
Asynchronous	false	

Envia Lista Tipologias : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	8	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Apresenta Lista Tipologias do Serviço : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	9	
Asynchronous	false	

Escolhe Tipologia : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	10	
Asynchronous	false	

Pede dados : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	11	
Asynchronous	false	

Insere dados da modalidade : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	12	
Asynchronous	false	

Valida dados : Message		
To	Name	Value
	End Model Element	 UI
Type	Self Message	
Sequence Number	13	
Asynchronous	false	

Valida dados : Message		
To	Name	Value
	End Model Element	 UI
Type	Self Message	
Sequence Number	13	
Asynchronous	false	

Adiciona uma nova modalidade a tipologia : Message		
To	Name	Value
	End Model Element	 Serviços
Type	Message	
Sequence Number	14	
Asynchronous	false	

Regista dados da modalidade : Message		
To	Name	Value
	End Model Element	 Serviços
Type	Message	
Sequence Number	15	
Asynchronous	false	

Informa sucesso : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	16	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Informa sucesso : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	17	
Asynchronous	false	

Informa dados invalidos : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	18	
Asynchronous	false	



Fornecedor

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

Apresenta Lista Vazia : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	3	
Asynchronous	false	

Apresenta Lista Serviços : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	5	
Asynchronous	false	

Escolhe Serviço : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	6	
Asynchronous	false	

Apresenta Lista Tipologias do Serviço : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	9	
Asynchronous	false	

Escolhe Tipologia : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	10	
Asynchronous	false	

Pede dados : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	11	
Asynchronous	false	

Insere dados da modalidade : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	12	
Asynchronous	false	

Informa sucesso : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	17	
Asynchronous	false	

Informa dados invalidos : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	18	
Asynchronous	false	



Fornecedores

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

Pede Lista dos seus serviços : Message		
To	Name	Value
	End Model Element	 Fornecedores
Type	Message	
Sequence Number	1	
Asynchronous	false	

Envia lista vazia : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	2	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Envia Lista Serviços : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	4	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	



Serviços

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

Pede Lista Tipologias : Message		
To	Name	Value
	End Model Element	 Serviços
Return Message	→ Envia Lista Tipologias	
Type	Message	
Sequence Number	7	
Asynchronous	false	

Envia Lista Tipologias : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	8	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Adiciona uma nova modalidade a tipologia : Message		
To	Name	Value
	End Model Element	 Serviços
Type	Message	
Sequence Number	14	
Asynchronous	false	

Regista dados da modalidade : Message		
To	Name	Value
	End Model Element	 Serviços
Type	Message	
Sequence Number	15	
Asynchronous	false	

Informa sucesso : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	16	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Não existem serviços deste fornecedor

Name	Value
Interaction Operator	break

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 UI	
 Fornecedor	
 Fornecedores	
 Serviços	

Operand

Name	Value	
Guard	Name	Value
	Constraint	Não existem serviços deste fornecedor

Dados Validos

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand
Operand2

Covered LifeLines

Name	Documentation
 UI	
 Fornecedor	
 Fornecedores	
 Serviços	

Operand

Name	Value	
Guard	Name	Value
	Constraint	Dados Validos

Operand2

Name	Value	
Guard	Name	Value
	Constraint	Else

N/A

Name	Value
Documentation	Voltar ao passo 4

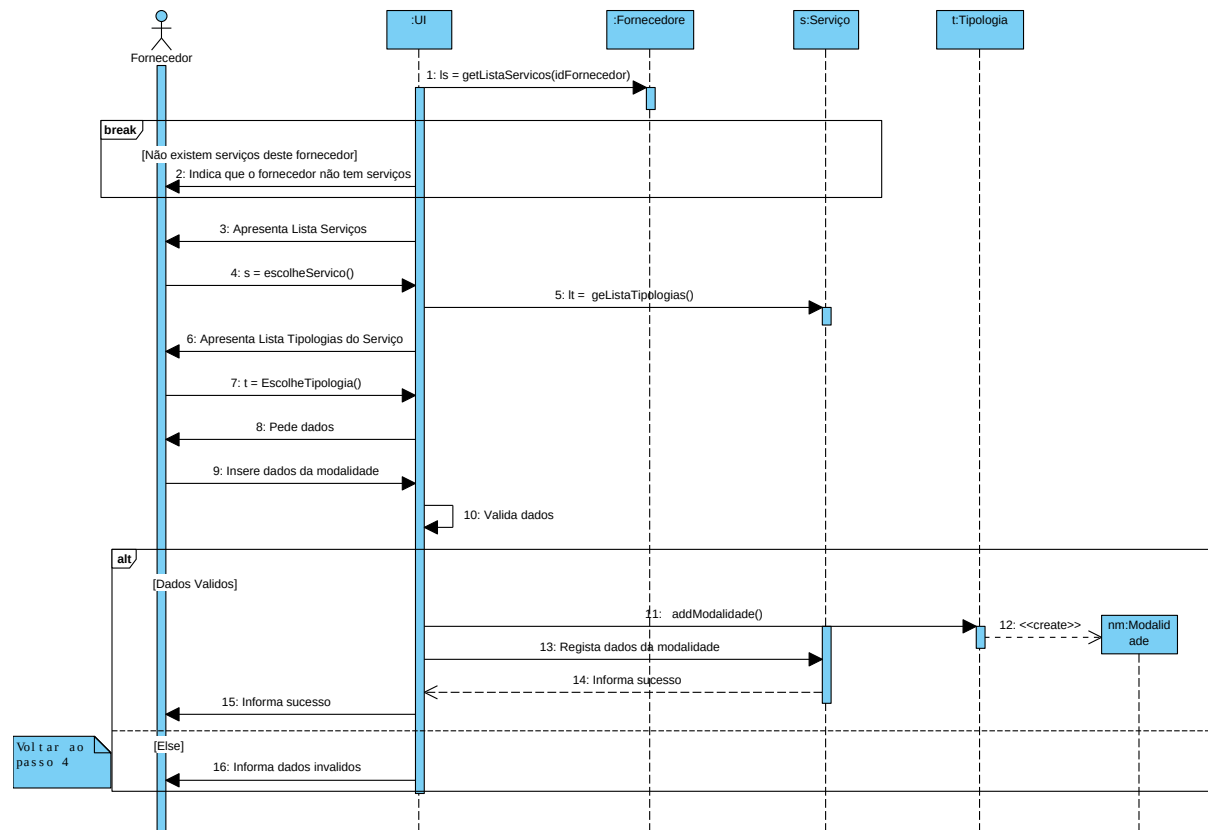
Relationships

Unnamed Anchor	
From	 Dados Validos

Sequence Diagram

Adicionar Modalidade - Passo 5

- Diagrama de Sequencia com Subsistemas



Summary

Name	Documentation
:UI	
Fornecedor	
:Fornecedor	
s:Serviço	
t:Tipologia	
nm:Modalidade	
Dados Validos	
Operand	
Não existem serviços deste fornecedor	
Operand	
Operand2	

 N/A	Voltar ao passo 4

Details

 :UI

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

Is = getListaServicos(idFornecedor) : Message		
To	Name	Value
	End Model Element	 :Fornecedore
Type	Message	
Sequence Number	1	
Asynchronous	false	

Indica que o fornecedor não tem serviços : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	2	
Asynchronous	false	

Apresenta Lista Serviços : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	3	
Asynchronous	false	

s = escolheServico() : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	4	
Asynchronous	false	

It = geListaTipologias() : Message		
To	Name	Value
	End Model Element	 s:Serviço
Type	Message	
Sequence Number	5	
Asynchronous	false	

Apresenta Lista Tipologias do Serviço : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	6	
Asynchronous	false	

t = EscolheTipologia() : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	7	
Asynchronous	false	

Pede dados : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	8	
Asynchronous	false	

Insere dados da modalidade : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	9	
Asynchronous	false	

Valida dados : Message		
To	Name	Value
	End Model Element	 :UI
Type	Self Message	
Sequence Number	10	
Asynchronous	false	

Valida dados : Message		
To	Name	Value
	End Model Element	 :UI
Type	Self Message	
Sequence Number	10	
Asynchronous	false	

addModalidade() : Message		
To	Name	Value
	End Model Element	 t:Tipologia
Type	Message	
Sequence Number	11	
Asynchronous	false	

Regista dados da modalidade : Message		
To	Name	Value
	End Model Element	 s:Serviço
Type	Message	
Sequence Number	13	
Asynchronous	false	

Informa sucesso : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	14	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Informa sucesso : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	15	
Asynchronous	false	

Informa dados invalidos : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	16	
Asynchronous	false	

Fornecedor

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

Indica que o fornecedor não tem serviços : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	2	
Asynchronous	false	

Apresenta Lista Serviços : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	3	
Asynchronous	false	

s = escolheServico() : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	4	
Asynchronous	false	

Apresenta Lista Tipologias do Serviço : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	6	
Asynchronous	false	

t = EscolheTipologia() : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	7	
Asynchronous	false	

Pede dados : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	8	
Asynchronous	false	

Insere dados da modalidade : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	9	
Asynchronous	false	

Informa sucesso : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	15	
Asynchronous	false	

Informa dados invalidos : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	16	
Asynchronous	false	

:Fornecedore

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

Is = getListaServicos(idFornecedor) : Message		
To	Name	Value
	End Model Element	 :Fornecedore
Type	Message	
Sequence Number	1	
Asynchronous	false	

s:Serviço

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

It = geListaTipologias() : Message		
To	Name	Value
	End Model Element	 s:Serviço
Type	Message	
Sequence Number	5	
Asynchronous	false	

Regista dados da modalidade : Message		
To	Name	Value
	End Model Element	 s:Serviço
Type	Message	
Sequence Number	13	
Asynchronous	false	

Informa sucesso : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	14	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

t:Tipologia

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

addModalidade() : Message		
To	Name	Value
	End Model Element	 t:Tipologia
Type	Message	
Sequence Number	11	
Asynchronous	false	

<<create>> : Message		
To	Name	Value
	End Model Element	 nm:Modalidade
Type	Create Message	
Sequence Number	12	
Asynchronous	false	

nm:Modalidade

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

<<create>> : Message		
To	Name	Value
	End Model Element	 nm:Modalidade
Type	Create Message	
Sequence Number	12	
Asynchronous	false	

Dados Validos

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand
Operand2

Covered LifeLines

Name	Documentation
 :UI	
 Fornecedor	
 :Fornecedore	
 s:Serviço	
 t:Tipologia	
 nm:Modalidade	

Operand

Name	Value	
Guard	Name	Value
	Constraint	Dados Validos

Não existem serviços deste fornecedor

Name	Value
Interaction Operator	break

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 :UI	
 Fornecedor	
 :Fornecedore	
 s:Serviço	



Operand

Name	Value	
Guard	Name	Value
	Constraint	Não existem serviços deste fornecedor



Operand2

Name	Value	
Guard	Name	Value
	Constraint	Else

 N/A

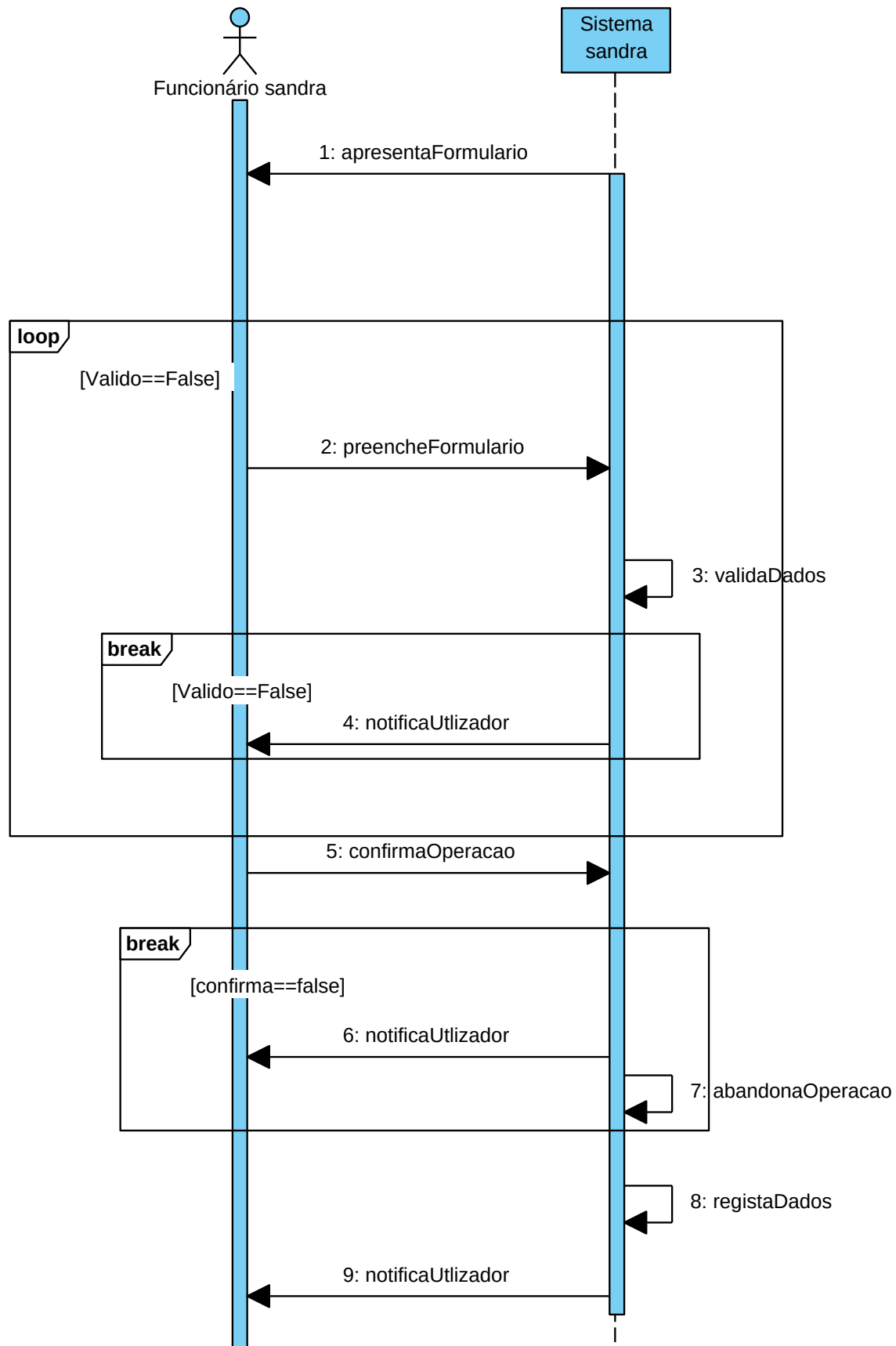
Name	Value
Documentation	Voltar ao passo 4

Relationships

Unnamed Anchor	
From	 Dados Validos

Sequence Diagram

Adicionar Morador passo1



Name	Value
Default Message Type	ActionTypeCall

Summary

Name	Documentation
 Sistema sandra	
 Funcionário sandra	
 Valido==False	
 Operand	
 Valido==False	
 Operand	
 confirma==false	
 Operand	

Details

Sistema sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresentaFormulario : Message		
To	Name	Value
	End Model Element	 Funcionário sandra
Type	Message	
Sequence Number	1	
Asynchronous	false	

preencheFormulario : Message		
To	Name	Value
	End Model Element	 Sistema sandra
Type	Message	
Sequence Number	2	
Action Type	Name	Value
	Name	Call
	Iteration	false
	Asynchronous	false
	Operation Type	0
Asynchronous	false	

validaDados : Message		
To	Name	Value
	End Model Element	 Sistema sandra
Type	Self Message	
Sequence Number	3	
Asynchronous	false	

validaDados : Message		
To	Name	Value
	End Model Element	 Sistema sandra
Type	Self Message	
Sequence Number	3	
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Funcionário sandra
Type	Message	
Sequence Number	4	
Action Type	Name	Value
	Name	Call
	Iteration	false
	Asynchronous	false
	Operation Type	0
Asynchronous	false	

confirmaOperacao : Message		
To	Name	Value
	End Model Element	 Sistema sandra
Type	Message	
Sequence Number	5	
Action Type	Name	Value
	Name	Call
	Iteration	false
	Asynchronous	false
	Operation Type	0
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Funcionário sandra
Type	Message	
Sequence Number	6	
Action Type	Name	Value
	Name	Call
	Iteration	false
	Asynchronous	false
	Operation Type	0
Asynchronous	false	

abandonaOperacao : Message		
To	Name	Value
	End Model Element	 Sistema sandra
Type	Self Message	
Sequence Number	7	
Action Type	Name	Value
	Name	Call
	Iteration	false
	Asynchronous	false
	Operation Type	0
Asynchronous	false	

abandonaOperacao : Message		
To	Name	Value
	End Model Element	 Sistema sandra
Type	Self Message	
Sequence Number	7	
Action Type	Name	Value
	Name	Call
	Iteration	false
	Asynchronous	false
	Operation Type	0
Asynchronous	false	

registraDados : Message		
To	Name	Value
	End Model Element	 Sistema sandra
Type	Self Message	
Sequence Number	8	
Action Type	Name	Value
	Name	Call
	Iteration	false
	Asynchronous	false
	Operation Type	0
Asynchronous	false	

registraDados : Message		
To	Name	Value
	End Model Element	 Sistema sandra
Type	Self Message	
Sequence Number	8	
Action Type	Name	Value
	Name	Call
	Iteration	false
	Asynchronous	false
	Operation Type	0
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Funcionário sandra
Type	Message	
Sequence Number	9	
Action Type	Name	Value
	Name	Call
	Iteration	false
	Asynchronous	false
	Operation Type	0
Asynchronous	false	



Funcionário sandra

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresentaFormulario : Message		
To	Name	Value
	End Model Element	 Funcionário sandra
Type	Message	
Sequence Number	1	
Asynchronous	false	

preencheFormulario : Message		
To	Name	Value
	End Model Element	 Sistema sandra
Type	Message	
Sequence Number	2	
Action Type	Name	Value
	Name	Call
	Iteration	false
	Asynchronous	false
	Operation Type	0
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Funcionário sandra
Type	Message	
Sequence Number	4	
Action Type	Name	Value
	Name	Call
	Iteration	false
	Asynchronous	false
	Operation Type	0
Asynchronous	false	

confirmaOperacao : Message		
To	Name	Value
	End Model Element	 Sistema sandra
Type	Message	
Sequence Number	5	
Action Type	Name	Value
	Name	Call
	Iteration	false
	Asynchronous	false
	Operation Type	0
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Funcionário sandra
Type	Message	
Sequence Number	6	
Action Type	Name	Value
	Name	Call
	Iteration	false
	Asynchronous	false
	Operation Type	0
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Funcionário sandra
Type	Message	
Sequence Number	9	
Action Type	Name	Value
	Name	Call
	Iteration	false
	Asynchronous	false
	Operation Type	0
Asynchronous	false	

Valido==False

Name	Value
Interaction Operator	loop

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Funcionário sandra	
 Sistema sandra	

Operand

Name	Value	
Guard	Name	Value
	Constraint	Valido==False

Children

Name	Documentation
 Valido==False	

Valido==False

Name	Value
Interaction Operator	break

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Funcionário sandra	
 Sistema sandra	



Operand

Name	Value	
Guard	Name	Value
	Constraint	Valido==False



confirma==false

Name	Value
Interaction Operator	break

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Funcionário sandra	
 Sistema sandra	

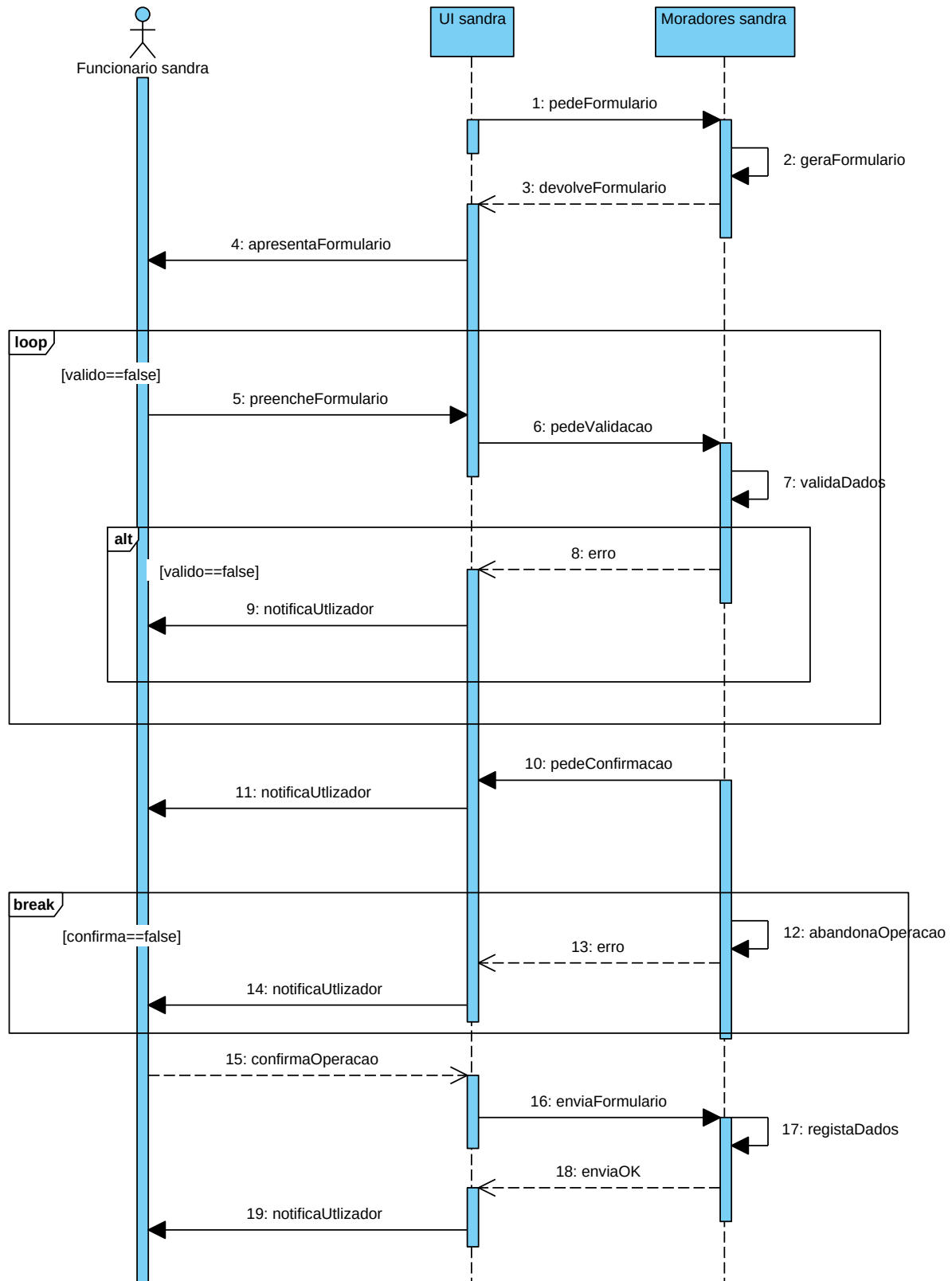


Operand

Name	Value	
Guard	Name	Value
	Constraint	confirma==false

Sequence Diagram

Adicionar Morador passo2



Summary

Name	Documentation
 UI sandra	
 Moradores sandra	
 Funcionario sandra	
 valido==false	
 Operand	
 valido==false	
 Operand	
 confirma==false	
 Operand	

Details

UI sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

pedeFormulario : Message		
To	Name	Value
	End Model Element	 Moradores sandra
Type	Message	
Sequence Number	1	
Asynchronous	false	

devolveFormulario : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

apresentaFormulario : Message		
To	Name	Value
	End Model Element	 Funcionario sandra
Type	Message	
Sequence Number	4	
Asynchronous	false	

preencheFormulario : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	5	
Asynchronous	false	

pedeValidacao : Message		
To	Name	Value
	End Model Element	 Moradores sandra
Type	Message	
Sequence Number	6	
Asynchronous	false	

erro : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	8	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Funcionario sandra
Type	Message	
Sequence Number	9	
Asynchronous	false	

pedeConfirmacao : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	10	
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Funcionario sandra
Type	Message	
Sequence Number	11	
Asynchronous	false	

erro : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	13	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Funcionario sandra
Type	Message	
Sequence Number	14	
Asynchronous	false	

confirmaOperacao : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	15	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

enviaFormulario : Message		
To	Name	Value
	End Model Element	 Moradores sandra
Type	Message	
Sequence Number	16	
Asynchronous	false	

enviaOK : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	18	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Funcionario sandra
Type	Message	
Sequence Number	19	
Asynchronous	false	



Moradores sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

pedeFormulario : Message		
To	Name	Value
	End Model Element	 Moradores sandra
Type	Message	
Sequence Number	1	
Asynchronous	false	

geraFormulario : Message		
To	Name	Value
	End Model Element	 Moradores sandra
Type	Self Message	
Sequence Number	2	
Asynchronous	false	

geraFormulario : Message		
To	Name	Value
	End Model Element	 Moradores sandra
Type	Self Message	
Sequence Number	2	
Asynchronous	false	

devolveFormulario : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

pedeValidacao : Message		
To	Name	Value
	End Model Element	 Moradores sandra
Type	Message	
Sequence Number	6	
Asynchronous	false	

validaDados : Message		
To	Name	Value
	End Model Element	 Moradores sandra
Type	Self Message	
Sequence Number	7	
Asynchronous	false	

validaDados : Message		
To	Name	Value
	End Model Element	 Moradores sandra
Type	Self Message	
Sequence Number	7	
Asynchronous	false	

erro : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	8	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

pedeConfirmacao : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	10	
Asynchronous	false	

abandonaOperacao : Message		
To	Name	Value
	End Model Element	 Moradores sandra
Type	Self Message	
Sequence Number	12	
Asynchronous	false	

abandonaOperacao : Message		
To	Name	Value
	End Model Element	 Moradores sandra
Type	Self Message	
Sequence Number	12	
Asynchronous	false	

erro : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	13	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

enviaFormulario : Message		
To	Name	Value
	End Model Element	 Moradores sandra
Type	Message	
Sequence Number	16	
Asynchronous	false	

registraDados : Message		
To	Name	Value
	End Model Element	 Moradores sandra
Type	Self Message	
Sequence Number	17	
Asynchronous	false	

registraDados : Message		
To	Name	Value
	End Model Element	 Moradores sandra
Type	Self Message	
Sequence Number	17	
Asynchronous	false	

enviaOK : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	18	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	



Funcionario sandra

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresentaFormulario : Message		
To	Name	Value
	End Model Element	Funcionario sandra
Type	Message	
Sequence Number	4	
Asynchronous	false	

preencheFormulario : Message		
To	Name	Value
	End Model Element	UI sandra
Type	Message	
Sequence Number	5	
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	Funcionario sandra
Type	Message	
Sequence Number	9	
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	Funcionario sandra
Type	Message	
Sequence Number	11	
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Funcionario sandra
Type	Message	
Sequence Number	14	
Asynchronous	false	

confirmaOperacao : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	15	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Funcionario sandra
Type	Message	
Sequence Number	19	
Asynchronous	false	



valido==false

Name	Value
Interaction Operator	loop

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Funcionario sandra	
 UI sandra	
 Moradores sandra	



Operand

Name	Value	
Guard	Name	Value
	Constraint	valido==false

Children

Name	Documentation
valido==false	



valido==false

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
Funcionario sandra	
UI sandra	
Moradores sandra	



Operand

Name	Value	
Guard	Name	Value
	Constraint	valido==false



confirma==false

Name	Value
Interaction Operator	break

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Funcionario sandra	
 UI sandra	
 Moradores sandra	

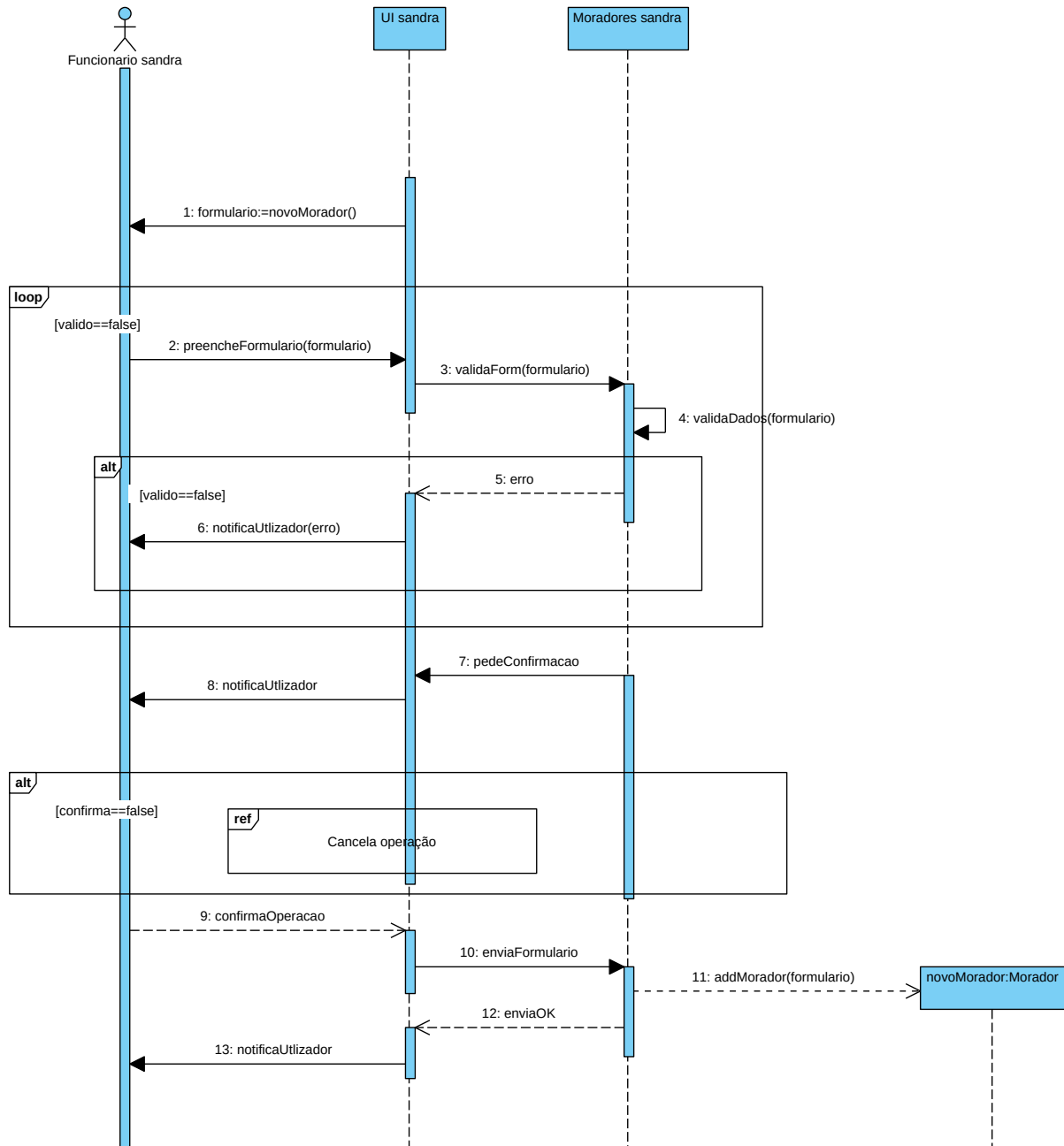


Operand

Name	Value	
Guard	Name	Value
	Constraint	confirma==false

Sequence Diagram

Adicionar Morador passo3



Summary

Name	Documentation
 Funcionario sandra	
 UI sandra	
 Moradores sandra	
 novoMorador:Morador	
 valido==false	

 Operand	
 valido==false	
 Operand	
 confirma==false	
 Operand	
 InteractionUse	

Details

Funcionario sandra

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

formulario:=novoMorador() : Message		
To	Name	Value
	End Model Element	 Funcionario sandra
Type	Message	
Sequence Number	1	
Asynchronous	false	

preencheFormulario(formulario) : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	2	
Asynchronous	false	

notificaUtlizador(erro) : Message		
To	Name	Value
	End Model Element	 Funcionario sandra
Type	Message	
Sequence Number	6	
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Funcionario sandra
Type	Message	
Sequence Number	8	
Asynchronous	false	

confirmaOperacao : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	9	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Funcionario sandra
Type	Message	
Sequence Number	13	
Asynchronous	false	



UI sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

formulario:=novoMorador() : Message		
To	Name	Value
	End Model Element	 Funcionario sandra
Type	Message	
Sequence Number	1	
Asynchronous	false	

preencheFormulario(formulario) : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	2	
Asynchronous	false	

validaForm(formulario) : Message		
To	Name	Value
	End Model Element	 Moradores sandra
Type	Message	
Sequence Number	3	
Asynchronous	false	

erro : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	5	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

notificaUtilizador(erro) : Message		
To	Name	Value
	End Model Element	 Funcionario sandra
Type	Message	
Sequence Number	6	
Asynchronous	false	

pedeConfirmacao : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	7	
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Funcionario sandra
Type	Message	
Sequence Number	8	
Asynchronous	false	

confirmaOperacao : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	9	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

enviaFormulario : Message		
To	Name	Value
	End Model Element	 Moradores sandra
Type	Message	
Sequence Number	10	
Asynchronous	false	

enviaOK : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	12	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Funcionario sandra
Type	Message	
Sequence Number	13	
Asynchronous	false	

Moradores sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

validaForm(formulario) : Message		
To	Name	Value
	End Model Element	 Moradores sandra
Type	Message	
Sequence Number	3	
Asynchronous	false	

validaDados(formulario) : Message		
To	Name	Value
	End Model Element	 Moradores sandra
Type	Self Message	
Sequence Number	4	
Asynchronous	false	

validaDados(formulario) : Message		
To	Name	Value
	End Model Element	 Moradores sandra
Type	Self Message	
Sequence Number	4	
Asynchronous	false	

erro : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	5	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

pedeConfirmacao : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	7	
Asynchronous	false	

enviaFormulario : Message		
To	Name	Value
	End Model Element	 Moradores sandra
Type	Message	
Sequence Number	10	
Asynchronous	false	

addMorador(formulario) : Message		
To	Name	Value
	End Model Element	 novoMorador:Morador
Type	Create Message	
Sequence Number	11	
Asynchronous	false	

enviaOK : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	12	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

novoMorador:Morador

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

addMorador(formulario) : Message		
To	Name	Value
	End Model Element	 novoMorador:Morador
Type	Create Message	
Sequence Number	11	
Asynchronous	false	

valido==false

Name	Value
Interaction Operator	loop

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Funcionario sandra	
 UI sandra	
 Moradores sandra	

Operand

Name	Value	
Guard	Name	Value
	Constraint	valido==false

Children

Name	Documentation
 valido==false	

valido==false

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Funcionario sandra	
 UI sandra	
 Moradores sandra	



Operand

Name	Value	
Guard	Name	Value
	Constraint	valido==false



confirma==false

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Funcionario sandra	
 UI sandra	
 Moradores sandra	



Operand

Name	Value	
Guard	Name	Value
	Constraint	confirma==false

Children

Name	Documentation
 InteractionUse	

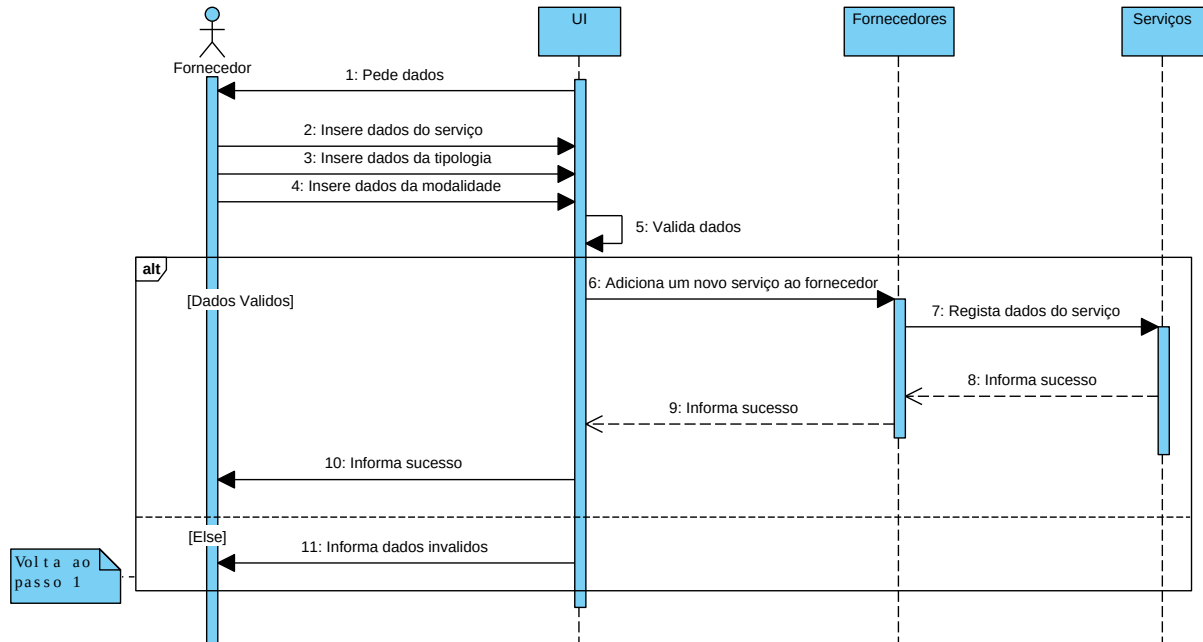


InteractionUse

Name	Value
Refers To	 Cancela operação

Sequence Diagram

Adicionar Serviço - Passo3 - Diagrama de Sequencia com subsistemas



Summary

Name	Documentation
 Fornecedor	
 UI	
 Fornecedores	
 Serviços	
 Dados Validos	
 Operand	
 Operand2	
 N/A	Volta ao passo 1

Details



Fornecedor

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

Pede dados : Message		
To	Name	Value
	End Model Element	Fornecedor
Type	Message	
Sequence Number	1	
Asynchronous	false	

Insere dados do serviço : Message		
To	Name	Value
	End Model Element	UI
Type	Message	
Sequence Number	2	
Asynchronous	false	

Insere dados da tipologia : Message		
To	Name	Value
	End Model Element	UI
Type	Message	
Sequence Number	3	
Asynchronous	false	

Insere dados da modalidade : Message		
To	Name	Value
	End Model Element	UI
Type	Message	
Sequence Number	4	
Asynchronous	false	

Informa sucesso : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	10	
Asynchronous	false	

Informa dados invalidos : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	11	
Asynchronous	false	



Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

Pede dados : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	1	
Asynchronous	false	

Insere dados do serviço : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	2	
Asynchronous	false	

Insere dados da tipologia : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	3	
Asynchronous	false	

Insere dados da modalidade : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	4	
Asynchronous	false	

Valida dados : Message		
To	Name	Value
	End Model Element	 UI
Type	Self Message	
Sequence Number	5	
Asynchronous	false	

Valida dados : Message		
To	Name	Value
	End Model Element	 UI
Type	Self Message	
Sequence Number	5	
Asynchronous	false	

Adiciona um novo serviço ao fornecedor : Message		
To	Name	Value
	End Model Element	 Fornecedores
Type	Message	
Sequence Number	6	
Asynchronous	false	

Informa sucesso : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	9	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Informa sucesso : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	10	
Asynchronous	false	

Informa dados invalidos : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	11	
Asynchronous	false	



Fornecedores

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

Adiciona um novo serviço ao fornecedor : Message		
To	Name	Value
	End Model Element	 Fornecedores
Type	Message	
Sequence Number	6	
Asynchronous	false	

Regista dados do serviço : Message		
To	Name	Value
	End Model Element	 Serviços
Type	Message	
Sequence Number	7	
Asynchronous	false	

Informa sucesso : Message		
To	Name	Value
	End Model Element	 Fornecedores
Type	Message	
Sequence Number	8	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Informa sucesso : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	9	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	



Serviços

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

Regista dados do serviço : Message		
To	Name	Value
	End Model Element	 Serviços
Type	Message	
Sequence Number	7	
Asynchronous	false	

Informa sucesso : Message		
To	Name	Value
	End Model Element	 Fornecedores
Type	Message	
Sequence Number	8	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Dados Validos

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand
Operand2

Covered LifeLines

Name	Documentation
 Fornecedor	
 UI	
 Fornecedores	
 Serviços	

Operand

Name	Value	
Guard	Name	Value
	Constraint	Dados Validos



Operand2

Name	Value	
Guard	Name	Value
	Constraint	Else



N/A

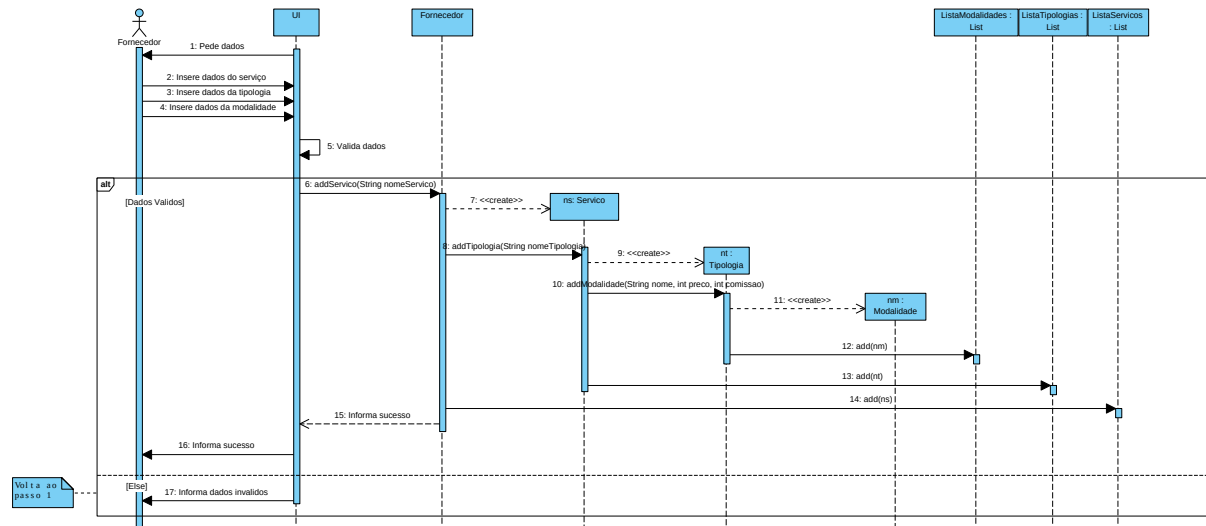
Name	Value
Documentation	Volta ao passo 1

Relationships

Unnamed Anchor	
From	 Dados Validos

Sequence Diagram

Adicionar Serviço - Passo 5 - Diagrama de Sequencia de Implantação



Summary

Name	Documentation
Fornecedor	
UI	
Fornecedor	
ns: Servico	
ListaServicos : List	
nt : Tipologia	
ListaTipologias : List	
nm : Modalidade	
ListaModalidades : List	
Dados Validos	
Operand	
Operand2	
N/A	Volta ao passo 1

Details



Fornecedor

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

Pede dados : Message		
To	Name	Value
	End Model Element	Fornecedor
Type	Message	
Sequence Number	1	
Asynchronous	false	

Insere dados do serviço : Message		
To	Name	Value
	End Model Element	UI
Type	Message	
Sequence Number	2	
Asynchronous	false	

Insere dados da tipologia : Message		
To	Name	Value
	End Model Element	UI
Type	Message	
Sequence Number	3	
Asynchronous	false	

Insere dados da modalidade : Message		
To	Name	Value
	End Model Element	UI
Type	Message	
Sequence Number	4	
Asynchronous	false	

Informa sucesso : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	16	
Asynchronous	false	

Informa dados invalidos : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	17	
Asynchronous	false	



UI

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

Pede dados : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	1	
Asynchronous	false	

Insere dados do serviço : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	2	
Asynchronous	false	

Insere dados da tipologia : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	3	
Asynchronous	false	

Insere dados da modalidade : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	4	
Asynchronous	false	

Valida dados : Message		
To	Name	Value
	End Model Element	 UI
Type	Self Message	
Sequence Number	5	
Asynchronous	false	

Valida dados : Message		
To	Name	Value
	End Model Element	 UI
Type	Self Message	
Sequence Number	5	
Asynchronous	false	

addServico(String nomeServico) : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	6	
Asynchronous	false	

Informa sucesso : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	15	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Informa sucesso : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	16	
Asynchronous	false	

Informa dados invalidos : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	17	
Asynchronous	false	



Fornecedor

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

addServico(String nomeServico) : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	6	
Asynchronous	false	

<<create>> : Message		
To	Name	Value
	End Model Element	 ns: Servico
Type	Create Message	
Sequence Number	7	
Asynchronous	false	

addTipologia(String nomeTipologia) : Message		
To	Name	Value
	End Model Element	 ns: Servico
Type	Message	
Sequence Number	8	
Asynchronous	false	

add(ns) : Message		
To	Name	Value
	End Model Element	 ListaServicos : List
Type	Message	
Sequence Number	14	
Asynchronous	false	

Informa sucesso : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	15	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	



ns: Servico

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

<<create>> : Message		
To	Name	Value
	End Model Element	 ns: Servico
Type	Create Message	
Sequence Number	7	
Asynchronous	false	

addTipologia(String nomeTipologia) : Message		
To	Name	Value
	End Model Element	 ns: Servico
Type	Message	
Sequence Number	8	
Asynchronous	false	

<<create>> : Message		
To	Name	Value
	End Model Element	 nt : Tipologia
Type	Create Message	
Sequence Number	9	
Asynchronous	false	

addModalidade(String nome, int preco, int comissao) : Message		
To	Name	Value
	End Model Element	 nt : Tipologia
Type	Message	
Sequence Number	10	
Asynchronous	false	

add(nt) : Message		
To	Name	Value
	End Model Element	 ListaTipologias : List
Type	Message	
Sequence Number	13	
Asynchronous	false	

ListaServicos : List

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

add(ns) : Message		
To	Name	Value
	End Model Element	 ListaServicos : List
Type	Message	
Sequence Number	14	
Asynchronous	false	

nt : Tipologia

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

<<create>> : Message		
To	Name	Value
	End Model Element	 nt : Tipologia
Type	Create Message	
Sequence Number	9	
Asynchronous	false	

addModalidade(String nome, int preco, int comissao) : Message		
To	Name	Value
	End Model Element	 nt : Tipologia
Type	Message	
Sequence Number	10	
Asynchronous	false	

<<create>> : Message		
To	Name	Value
	End Model Element	 nm : Modalidade
Type	Create Message	
Sequence Number	11	
Asynchronous	false	

add(nm) : Message		
To	Name	Value
	End Model Element	 ListaModalidades : List
Type	Message	
Sequence Number	12	
Asynchronous	false	

ListaTipologias : List

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

add(nt) : Message		
To	Name	Value
	End Model Element	 ListaTipologias : List
Type	Message	
Sequence Number	13	
Asynchronous	false	

nm : Modalidade

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

<<create>> : Message		
To	Name	Value
	End Model Element	 nm : Modalidade
Type	Create Message	
Sequence Number	11	
Asynchronous	false	

ListaModalidades : List

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

add(nm) : Message		
To	Name	Value
	End Model Element	 ListaModalidades : List
Type	Message	
Sequence Number	12	
Asynchronous	false	

Dados Validos

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand
Operand2

Covered LifeLines

Name	Documentation
 Fornecedor	
 UI	
 Fornecedor	
 ns: Servico	
 nt : Tipologia	
 ListaServicos : List	
 ListaTipologias : List	
 nm : Modalidade	
 ListaModalidades : List	

Operand

Name	Value	
Guard	Name	Value
	Constraint	Dados Validos

Operand2

Name	Value	
Guard	Name	Value
	Constraint	Else

N/A

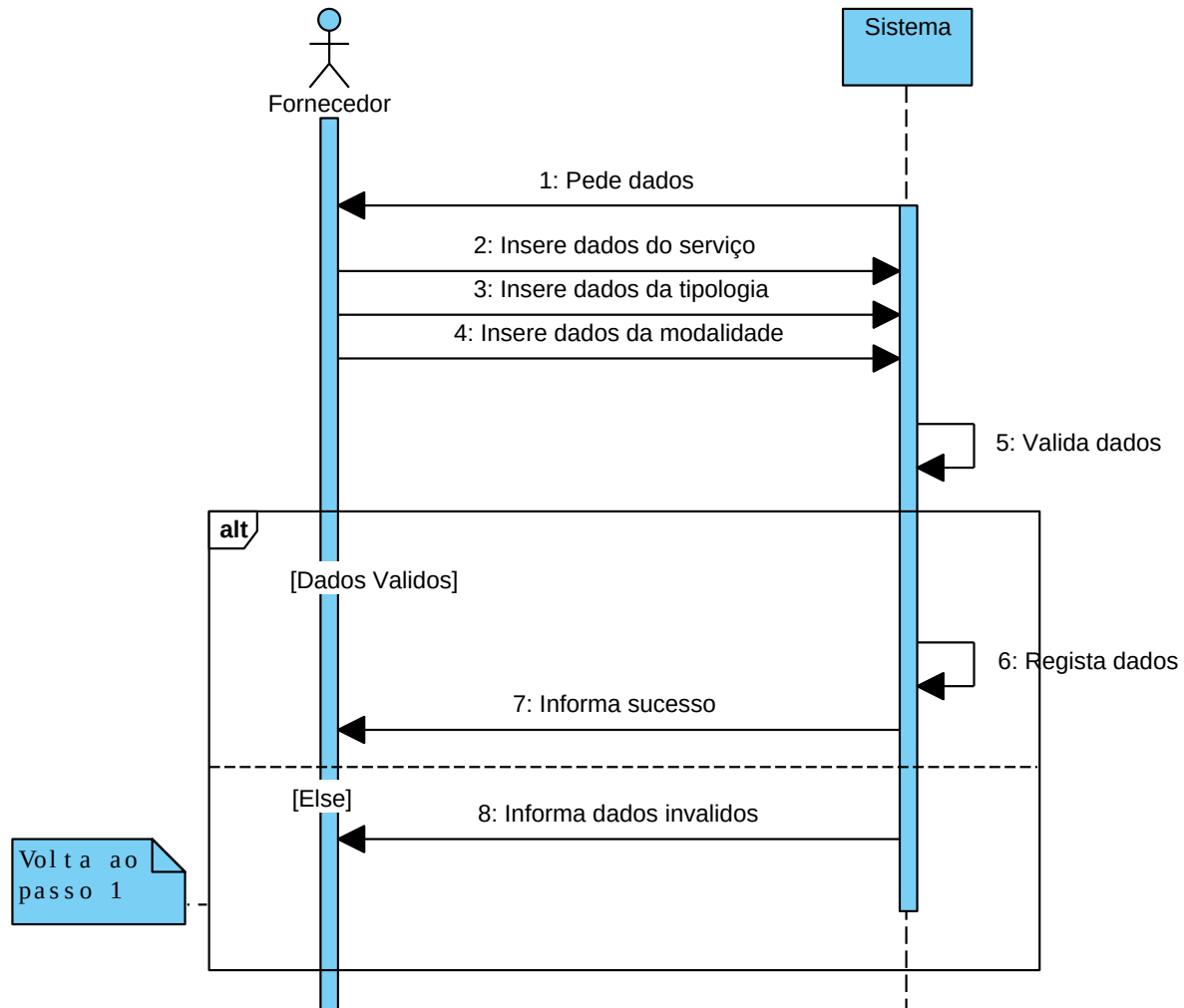
Name	Value
Documentation	Volta ao passo 1

Relationships

Unnamed Anchor	
From	 Dados Validos

Sequence Diagram

Adicionar Serviço - Passo1 - Diagrama de Sequencia de Sistema



Summary

Name	Documentation
 Sistema	
 Fornecedor	
 Dados Validos	
 Operand	
 Operand2	
 N/A	Volta ao passo 1

Details

Sistema

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

Pede dados : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	1	
Asynchronous	false	

Insere dados do serviço : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

Insere dados da tipologia : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	3	
Asynchronous	false	

Insere dados da modalidade : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

Valida dados : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	5	
Asynchronous	false	

Valida dados : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	5	
Asynchronous	false	

Regista dados : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	6	
Asynchronous	false	

Regista dados : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	6	
Asynchronous	false	

Informa sucesso : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	7	
Asynchronous	false	

Informa dados invalidos : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	8	
Asynchronous	false	



Fornecedor

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

Pede dados : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	1	
Asynchronous	false	

Insere dados do serviço : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

Insere dados da tipologia : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	3	
Asynchronous	false	

Insere dados da modalidade : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

Informa sucesso : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	7	
Asynchronous	false	

Informa dados invalidos : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	8	
Asynchronous	false	



Dados Validos

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand
Operand2

Covered LifeLines

Name	Documentation
 Fornecedor	
 Sistema	



Operand

Name	Value	
Guard	Name	Value
	Constraint	Dados Validos



Operand2

Name	Value	
Guard	Name	Value
	Constraint	Else

 **N/A**

Name	Value
Documentation	Volta ao passo 1

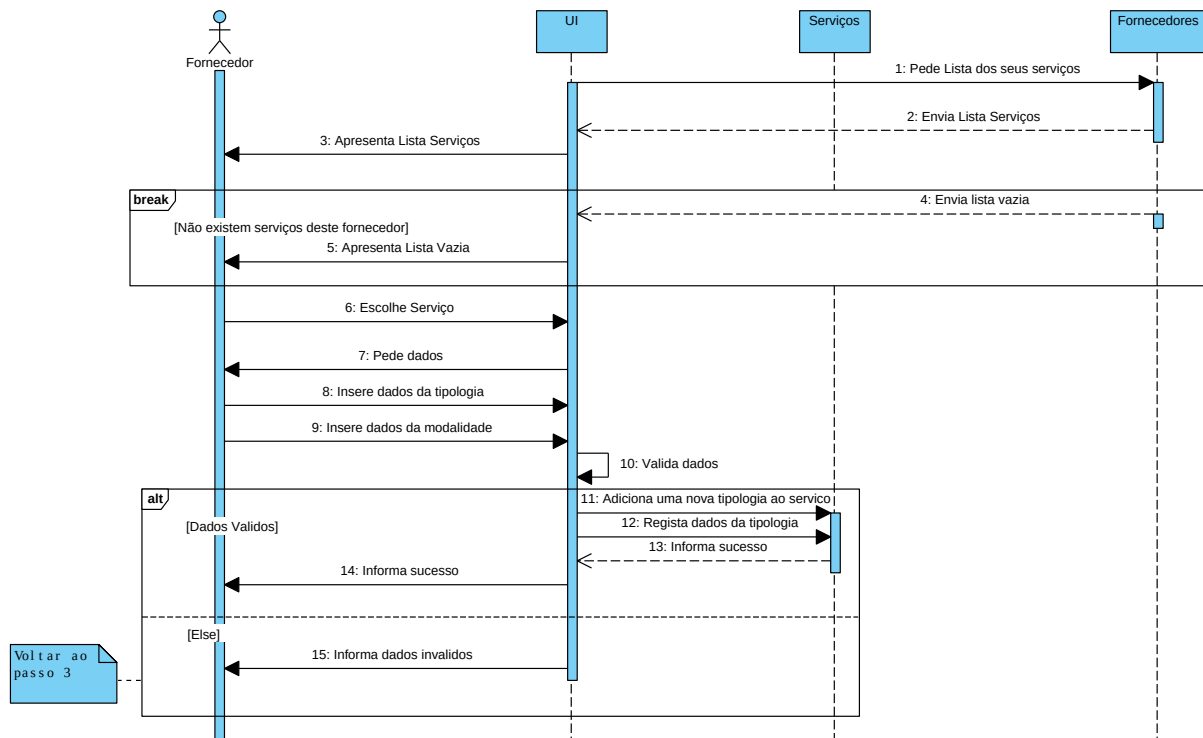
Relationships

Unnamed Anchor	
From	 Dados Validos

Sequence Diagram

Adicionar Tipologia - Passo 3

- Diagrama de Sequencia com Subsistemas



Summary

Name	Documentation
UI	
Fornecedor	
Fornecedores	
Serviços	
Não existem serviços deste fornecedor	
Operand	
Dados Validos	
Operand	
Operand2	
N/A	Voltar ao passo 3

Details



UI

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

Pede Lista dos seus serviços : Message		
To	Name	Value
	End Model Element	Fornecedores
Return Message	→ Envia Lista Serviços	
Type	Message	
Sequence Number	1	
Asynchronous	false	

Envia Lista Serviços : Message		
To	Name	Value
	End Model Element	UI
Type	Message	
Sequence Number	2	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Apresenta Lista Serviços : Message		
To	Name	Value
	End Model Element	Fornecedor
Type	Message	
Sequence Number	3	
Asynchronous	false	

Envia lista vazia : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	4	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Apresenta Lista Vazia : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	5	
Asynchronous	false	

Escolhe Serviço : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	6	
Asynchronous	false	

Pede dados : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	7	
Asynchronous	false	

Insere dados da tipologia : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	8	
Asynchronous	false	

Insere dados da modalidade : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	9	
Asynchronous	false	

Valida dados : Message		
To	Name	Value
	End Model Element	 UI
Type	Self Message	
Sequence Number	10	
Asynchronous	false	

Valida dados : Message		
To	Name	Value
	End Model Element	 UI
Type	Self Message	
Sequence Number	10	
Asynchronous	false	

Adiciona uma nova tipologia ao serviço : Message		
To	Name	Value
	End Model Element	 Serviços
Type	Message	
Sequence Number	11	
Asynchronous	false	

Regista dados da tipologia : Message		
To	Name	Value
	End Model Element	 Serviços
Type	Message	
Sequence Number	12	
Asynchronous	false	

Informa sucesso : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	13	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Informa sucesso : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	14	
Asynchronous	false	

Informa dados invalidos : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	15	
Asynchronous	false	



Fornecedor

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

Apresenta Lista Serviços : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	3	
Asynchronous	false	

Apresenta Lista Vazia : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	5	
Asynchronous	false	

Escolhe Serviço : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	6	
Asynchronous	false	

Pede dados : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	7	
Asynchronous	false	

Insere dados da tipologia : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	8	
Asynchronous	false	

Insere dados da modalidade : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	9	
Asynchronous	false	

Informa sucesso : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	14	
Asynchronous	false	

Informa dados invalidos : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	15	
Asynchronous	false	



Fornecedores

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

Pede Lista dos seus serviços : Message		
To	Name	Value
	End Model Element	 Fornecedor
Return Message	→ Envia Lista Serviços	
Type	Message	
Sequence Number	1	
Asynchronous	false	

Envia Lista Serviços : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	2	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Envia lista vazia : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	4	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	



Serviços

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

Adiciona uma nova tipologia ao servico : Message		
To	Name	Value
	End Model Element	 Serviços
Type	Message	
Sequence Number	11	
Asynchronous	false	

Regista dados da tipologia : Message		
To	Name	Value
	End Model Element	 Serviços
Type	Message	
Sequence Number	12	
Asynchronous	false	

Informa sucesso : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	13	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	



Não existem serviços deste fornecedor

Name	Value
Interaction Operator	break

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 UI	
 Fornecedor	
 Fornecedores	



Operand

Name	Value	
Guard	Name	Value
	Constraint	Não existem serviços deste fornecedor



Dados Validos

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand
Operand2

Covered LifeLines

Name	Documentation
 UI	
 Fornecedor	
 Serviços	

Operand

Name	Value	
Guard	Name	Value
	Constraint	Dados Validos

Operand2

Name	Value	
Guard	Name	Value
	Constraint	Else

N/A

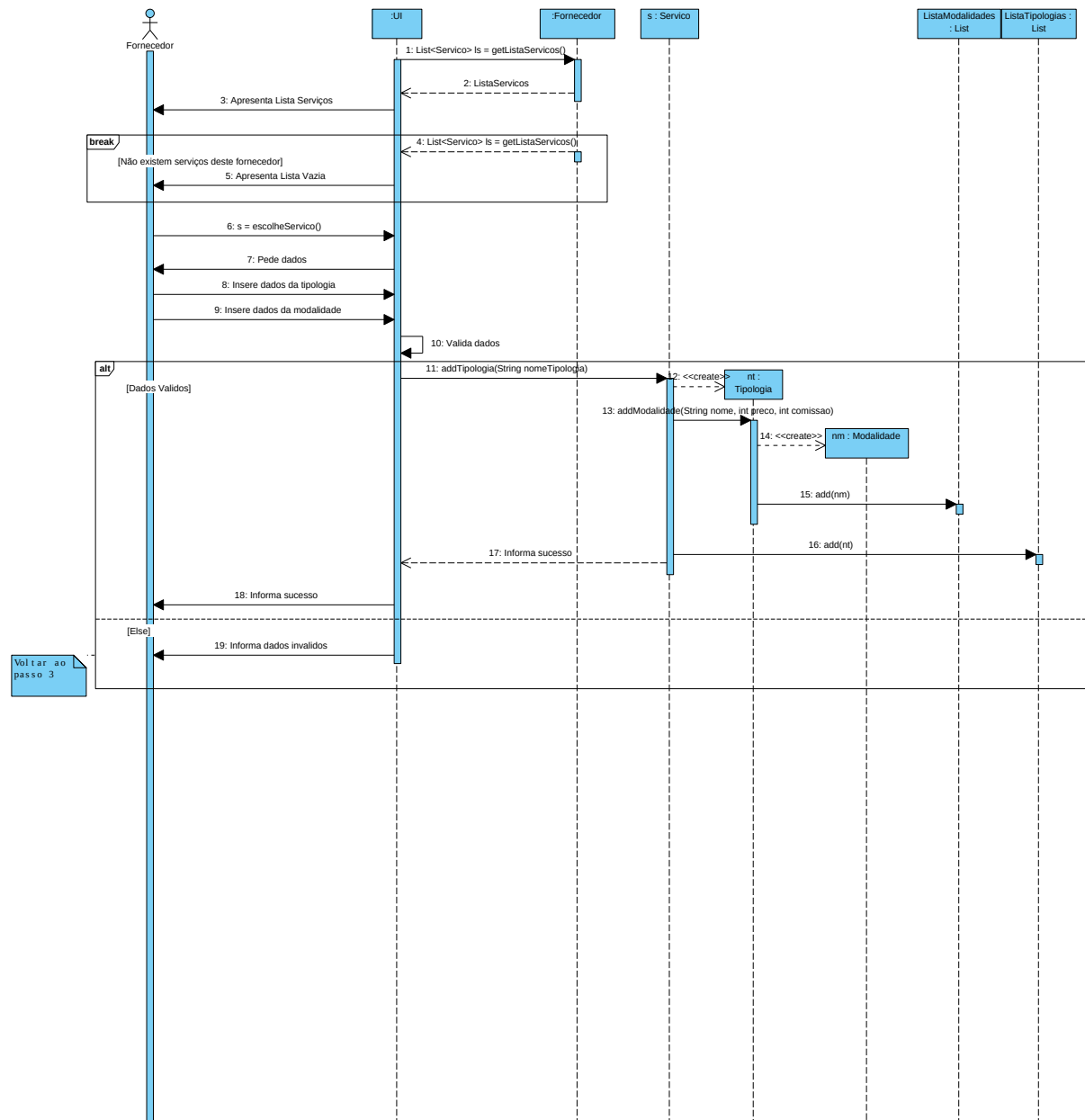
Name	Value
Documentation	Voltar ao passo 3

Relationships

Unnamed Anchor	
From	 Dados Validos

Sequence Diagram

Adicionar Tipologia - Passo 5 - Diagrama de Sequencia de Implementação



Summary

Name	Documentation
 :UI	
 Fornecedor	
 :Fornecedor	

 s : Servico	
 nt : Tipologia	
 nm : Modalidade	
 ListaModalidades : List	
 ListaTipologias : List	
 Operand	
 Dados Validos	
 Operand	
 Operand2	
 N/A	Voltar ao passo 3
 Não existem serviços deste fornecedor	

Details

 :UI

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

List<Servico> ls = getListaServicos() : Message		
To	Name	Value
	End Model Element	 :Fornecedor
Type	Message	
Sequence Number	1	
Asynchronous	false	

ListaServicos : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	2	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Apresenta Lista Serviços : Message		
To	Name	Value
	End Model Element	 Forneecedor
Type	Message	
Sequence Number	3	
Asynchronous	false	

List<Servico> ls = getListaServicos() : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	4	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Apresenta Lista Vazia : Message		
To	Name	Value
	End Model Element	 Forneecedor
Type	Message	
Sequence Number	5	
Asynchronous	false	

s = escolheServico() : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	6	
Asynchronous	false	

Pede dados : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	7	
Asynchronous	false	

Insere dados da tipologia : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	8	
Asynchronous	false	

Insere dados da modalidade : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	9	
Asynchronous	false	

Valida dados : Message		
To	Name	Value
	End Model Element	 :UI
Type	Self Message	
Sequence Number	10	
Asynchronous	false	

Valida dados : Message		
To	Name	Value
	End Model Element	 :UI
Type	Self Message	
Sequence Number	10	
Asynchronous	false	

addTipologia(String nomeTipologia) : Message		
To	Name	Value
	End Model Element	 s : Servico
Type	Message	
Sequence Number	11	
Asynchronous	false	

Informa sucesso : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	17	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Informa sucesso : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	18	
Asynchronous	false	

Informa dados invalidos : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	19	
Asynchronous	false	



Fornecedor

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

Apresenta Lista Serviços : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	3	
Asynchronous	false	

Apresenta Lista Vazia : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	5	
Asynchronous	false	

s = escolheServico() : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	6	
Asynchronous	false	

Pede dados : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	7	
Asynchronous	false	

Insere dados da tipologia : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	8	
Asynchronous	false	

Insere dados da modalidade : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	9	
Asynchronous	false	

Informa sucesso : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	18	
Asynchronous	false	

Informa dados invalidos : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	19	
Asynchronous	false	

:Fornecedor

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

List<Servico> ls = getListaServicos() : Message		
To	Name	Value
	End Model Element	 :Fornecedor
Type	Message	
Sequence Number	1	
Asynchronous	false	

ListaServicos : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	2	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

List<Servico> ls = getListaServicos() : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	4	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	



s : Servico

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

addTipologia(String nomeTipologia) : Message		
To	Name	Value
	End Model Element	 s : Servico
Type	Message	
Sequence Number	11	
Asynchronous	false	

<<create>> : Message		
To	Name	Value
	End Model Element	 nt : Tipologia
Type	Create Message	
Sequence Number	12	
Asynchronous	false	

addModalidade(String nome, int preco, int comissao) : Message		
To	Name	Value
	End Model Element	 nt : Tipologia
Type	Message	
Sequence Number	13	
Asynchronous	false	

add(nt) : Message		
To	Name	Value
	End Model Element	 ListaTipologias : List
Type	Message	
Sequence Number	16	
Asynchronous	false	

Informa sucesso : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	17	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

nt : Tipologia

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

<<create>> : Message		
To	Name	Value
	End Model Element	 nt : Tipologia
Type	Create Message	
Sequence Number	12	
Asynchronous	false	

addModalidade(String nome, int preco, int comissao) : Message		
To	Name	Value
	End Model Element	 nt : Tipologia
Type	Message	
Sequence Number	13	
Asynchronous	false	

<<create>> : Message		
To	Name	Value
	End Model Element	 nm : Modalidade
Type	Create Message	
Sequence Number	14	
Asynchronous	false	

add(nm) : Message		
To	Name	Value
	End Model Element	 ListaModalidades : List
Type	Message	
Sequence Number	15	
Asynchronous	false	

nm : Modalidade

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

<<create>> : Message		
To	Name	Value
	End Model Element	 nm : Modalidade
Type	Create Message	
Sequence Number	14	
Asynchronous	false	

ListaModalidades : List

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

add(nm) : Message		
To	Name	Value
	End Model Element	 ListaModalidades : List
Type	Message	
Sequence Number	15	
Asynchronous	false	

ListaTipologias : List

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

add(nt) : Message		
To	Name	Value
	End Model Element	 ListaTipologias : List
Type	Message	
Sequence Number	16	
Asynchronous	false	

Operand

Name	Value	
Guard	Name	Value
	Constraint	Não existem serviços deste fornecedor

Dados Validos

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand
Operand2

Covered LifeLines

Name	Documentation
 :UI	
 Fornecedor	
 :Fornecedor	
 s : Servico	
 nt : Tipologia	
 nm : Modalidade	
 ListaModalidades : List	
 ListaTipologias : List	

Operand

Name	Value	
Guard	Name	Value
	Constraint	Dados Validos

Operand2

Name	Value	
Guard	Name	Value
	Constraint	Else

 N/A

Name	Value
Documentation	Voltar ao passo 3

Relationships

Unnamed Anchor	
From	 Dados Validos

 Não existem serviços deste fornecedor

Name	Value
Interaction Operator	break

Interaction Operands

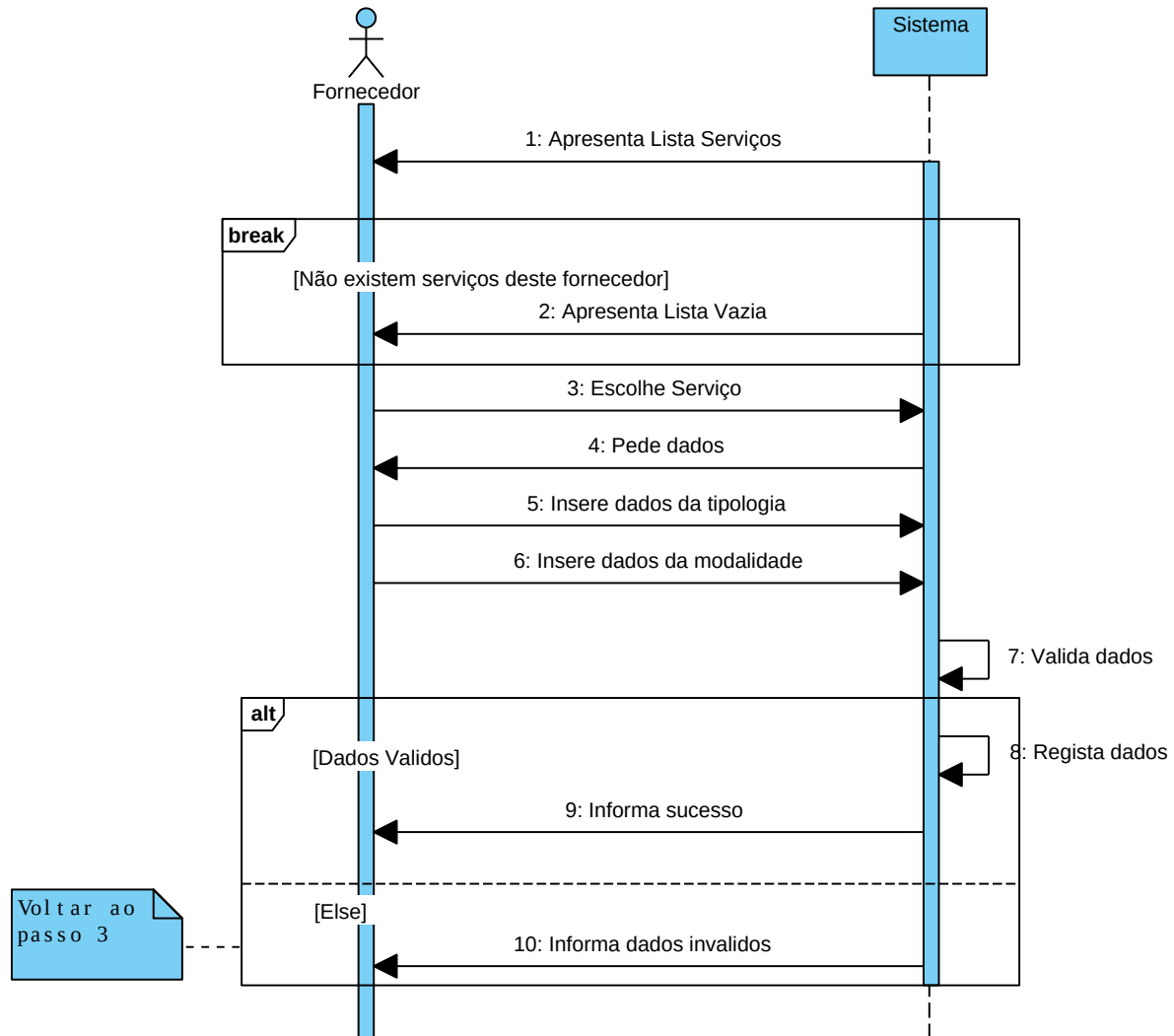
Value
Operand

Covered LifeLines

Name	Documentation
 :UI	
 Fornecedor	
 :Fornecedor	

Sequence Diagram

Adicionar Tipologia - passo 1 - Diagrama de Sequencia de Sistema



Summary

Name	Documentation
 Sistema	
 Fornecedor	
 Não existem serviços deste fornecedor	
 Operand	
 Dados Validos	
 Operand	
 N/A	Voltar ao passo 3

 Operand2	

Details

Sistema

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

Apresenta Lista Serviços : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	1	
Asynchronous	false	

Apresenta Lista Vazia : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	2	
Asynchronous	false	

Escolhe Serviço : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	3	
Asynchronous	false	

Pede dados : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	4	
Asynchronous	false	

Insere dados da tipologia : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	5	
Asynchronous	false	

Insere dados da modalidade : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	6	
Asynchronous	false	

Valida dados : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	7	
Asynchronous	false	

Valida dados : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	7	
Asynchronous	false	

Regista dados : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	8	
Asynchronous	false	

Regista dados : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	8	
Asynchronous	false	

Informa sucesso : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	9	
Asynchronous	false	

Informa dados invalidos : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	10	
Asynchronous	false	

Fornecedor

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

Apresenta Lista Serviços : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	1	
Asynchronous	false	

Apresenta Lista Vazia : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	2	
Asynchronous	false	

Escolhe Serviço : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	3	
Asynchronous	false	

Pede dados : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	4	
Asynchronous	false	

Insere dados da tipologia : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	5	
Asynchronous	false	

Insere dados da modalidade : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	6	
Asynchronous	false	

Informa sucesso : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	9	
Asynchronous	false	

Informa dados invalidos : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	10	
Asynchronous	false	

Não existem serviços deste fornecedor

Name	Value
Interaction Operator	break

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Sistema	
 Fornecedor	

Operand

Name	Value	
Guard	Name	Value
	Constraint	Não existem serviços deste fornecedor

Dados Validos

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand
Operand2

Covered LifeLines

Name	Documentation
 Sistema	
 Fornecedor	

Operand

Name	Value	
Guard	Name	Value
	Constraint	Dados Validos

N/A

Name	Value
Documentation	Voltar ao passo 3

Relationships

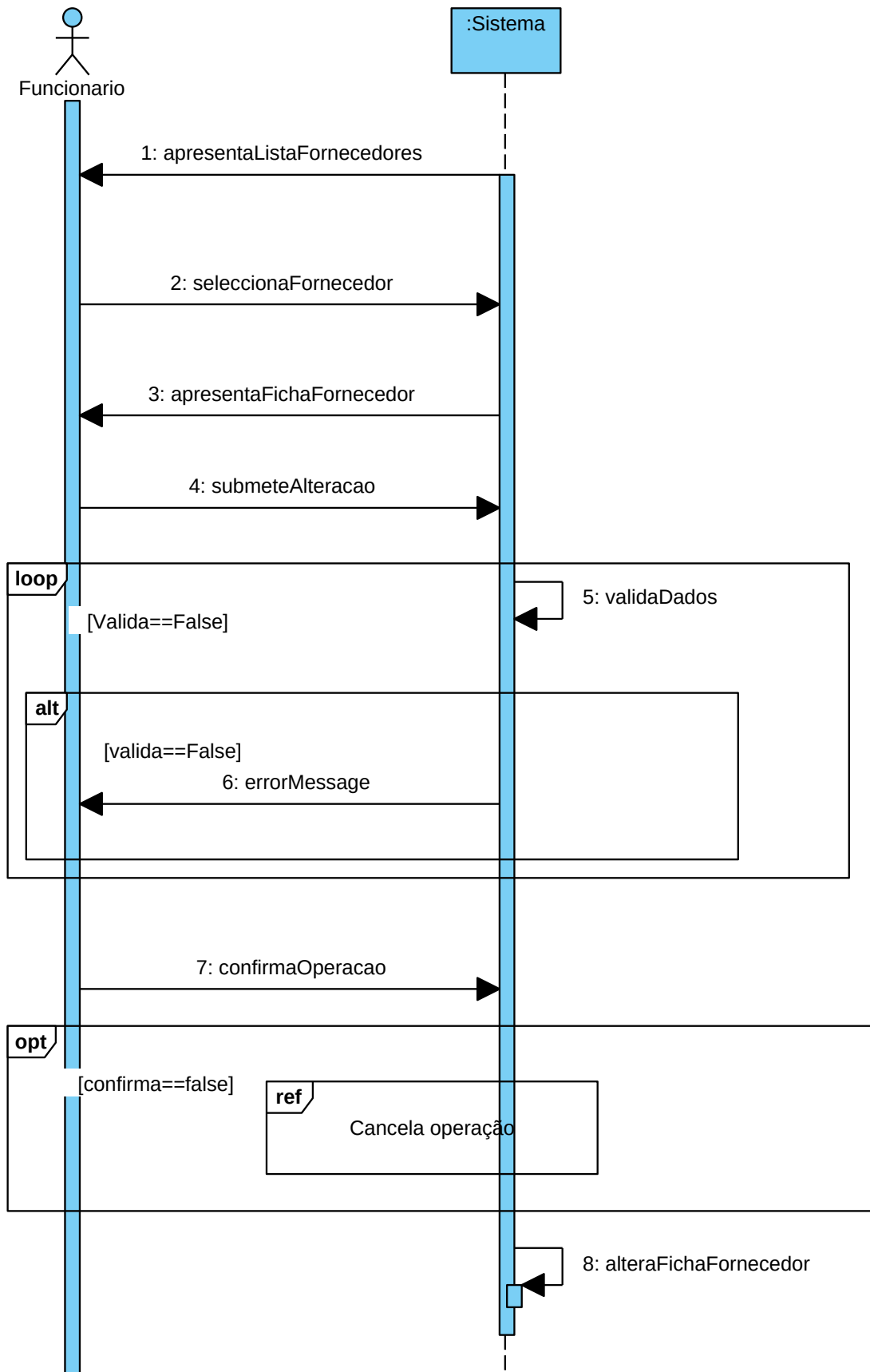
Unnamed Anchor	
From	 Dados Validos

Operand2

Name	Value	
Guard	Name	Value
	Constraint	Else

Sequence Diagram

Alterar Fornecedor passo1



Summary

Name	Documentation
 Funcionario	
 :Sistema	
 Operand	
 Operand	
 valida==False	
 Valida==False	
 confirma==false	
 Operand	
 InteractionUse3	

Details



Funcionario

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresentaListaFornecedores : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	1	
Asynchronous	false	

selecionaFornecedor : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresentaFichaFornecedor : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	3	
Asynchronous	false	

submeteAlteracao : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

errorMessage : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	6	
Asynchronous	false	

confirmaOperacao : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	7	
Asynchronous	false	

 :Sistema

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresentaListaFornecedores : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	1	
Asynchronous	false	

selecionaFornecedor : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresentaFichaFornecedor : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	3	
Asynchronous	false	

submeteAlteracao : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

validaDados : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Self Message	
Sequence Number	5	
Asynchronous	false	

validaDados : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Self Message	
Sequence Number	5	
Asynchronous	false	

errorMessage : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	6	
Asynchronous	false	

confirmaOperacao : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	7	
Asynchronous	false	

alteraFichaFornecedor : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Recursive Message	
Sequence Number	8	
Asynchronous	false	

alteraFichaFornecedor : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Recursive Message	
Sequence Number	8	
Asynchronous	false	



Operand

Name	Value	
Guard	Name	Value
	Constraint	Valida==False



Operand

Name	Value	
Guard	Name	Value
	Constraint	valida==False



valida==False

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 :Sistema	
 Funcionario	

Valida==False

Name	Value
Interaction Operator	loop

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Funcionario	
 :Sistema	

confirma==false

Name	Value
Interaction Operator	opt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Funcionario	
 :Sistema	

Operand

Name	Value	
Guard	Name	Value
	Constraint	confirma==false

Children

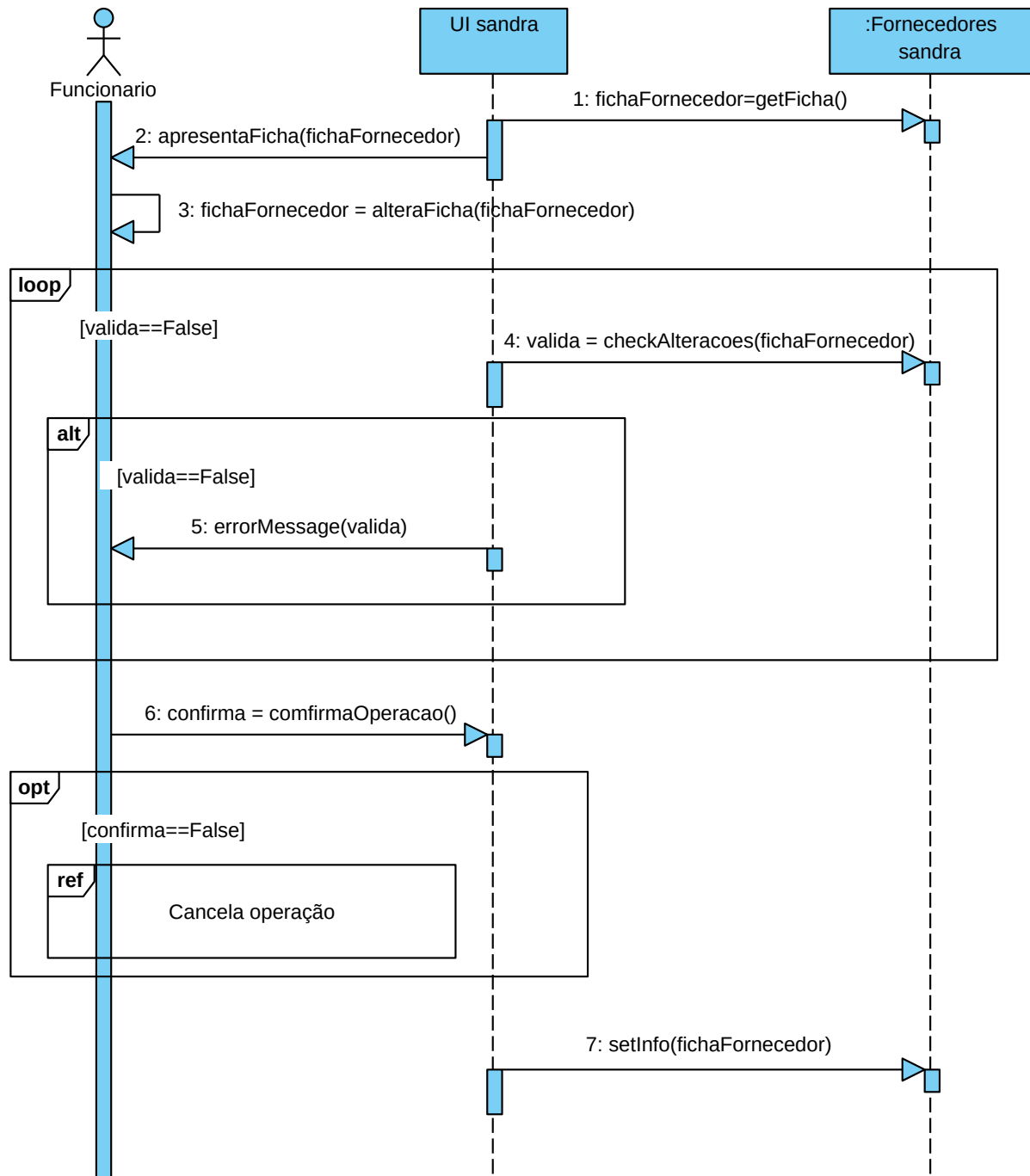
Name	Documentation
 InteractionUse3	

InteractionUse3

Name	Value
Refers To	 Cancela operação

Sequence Diagram

Alterar Fornecedor passo2



Summary

Name	Documentation
 Funcionario	
 UI sandra	
 :Fornecedores sandra	
 valida==False	

 valida==False	
 InteractionOperand	
 InteractionOperand	
 confirma==False	
 InteractionOperand	
 InteractionUse	

Details



Funcionario

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false
Referenced Actor	 Funcionario

Relationships

apresentaFicha(fichaFornecedor) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	2	
Asynchronous	false	

fichaFornecedor = alteraFicha(fichaFornecedor) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Self Message	
Sequence Number	3	
Asynchronous	false	

fichaFornecedor = alteraFicha(fichaFornecedor) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Self Message	
Sequence Number	3	
Asynchronous	false	

errorMessage(valida) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	5	
Asynchronous	false	

confirma = confirmaOperacao() : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	6	
Asynchronous	false	

UI sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

fichaFornecedor=getFicha() : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Message	
Sequence Number	1	
Asynchronous	false	

apresentaFicha(fichaFornecedor) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	2	
Asynchronous	false	

valida = checkAlteracoes(fichaFornecedor) : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Message	
Sequence Number	4	
Asynchronous	false	

errorMessage(valida) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	5	
Asynchronous	false	

confirma = confirmaOperacao() : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	6	
Asynchronous	false	

setInfo(fichaFornecedor) : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Message	
Sequence Number	7	
Asynchronous	false	

 :Fornecedores sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

fichaFornecedor=getFicha() : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Message	
Sequence Number	1	
Asynchronous	false	

valida = checkAlteracoes(fichaFornecedor) : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Message	
Sequence Number	4	
Asynchronous	false	

setInfo(fichaFornecedor) : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Message	
Sequence Number	7	
Asynchronous	false	



valida==False

Name	Value
Interaction Operator	loop

Interaction Operands

Value
InteractionOperand

Covered LifeLines

Name	Documentation
 Funcionario	
 UI sandra	
 :Fornecedores sandra	



valida==False

Name	Value
Interaction Operator	alt

Interaction Operands

Value
InteractionOperand

Covered LifeLines

Name	Documentation
 Funcionario	
 UI sandra	

InteractionOperand

Name	Value	
Guard	Name	Value
	Constraint	valida==False

Children

Name	Documentation
 valida==False	

InteractionOperand

Name	Value	
Guard	Name	Value
	Constraint	valida==False

confirma==False

Name	Value
Interaction Operator	opt

Interaction Operands

Value
InteractionOperand

Covered LifeLines

Name	Documentation
 Funcionario	
 UI sandra	

InteractionOperand

Name	Value	
Guard	Name	Value
	Constraint	confirma==False

Children

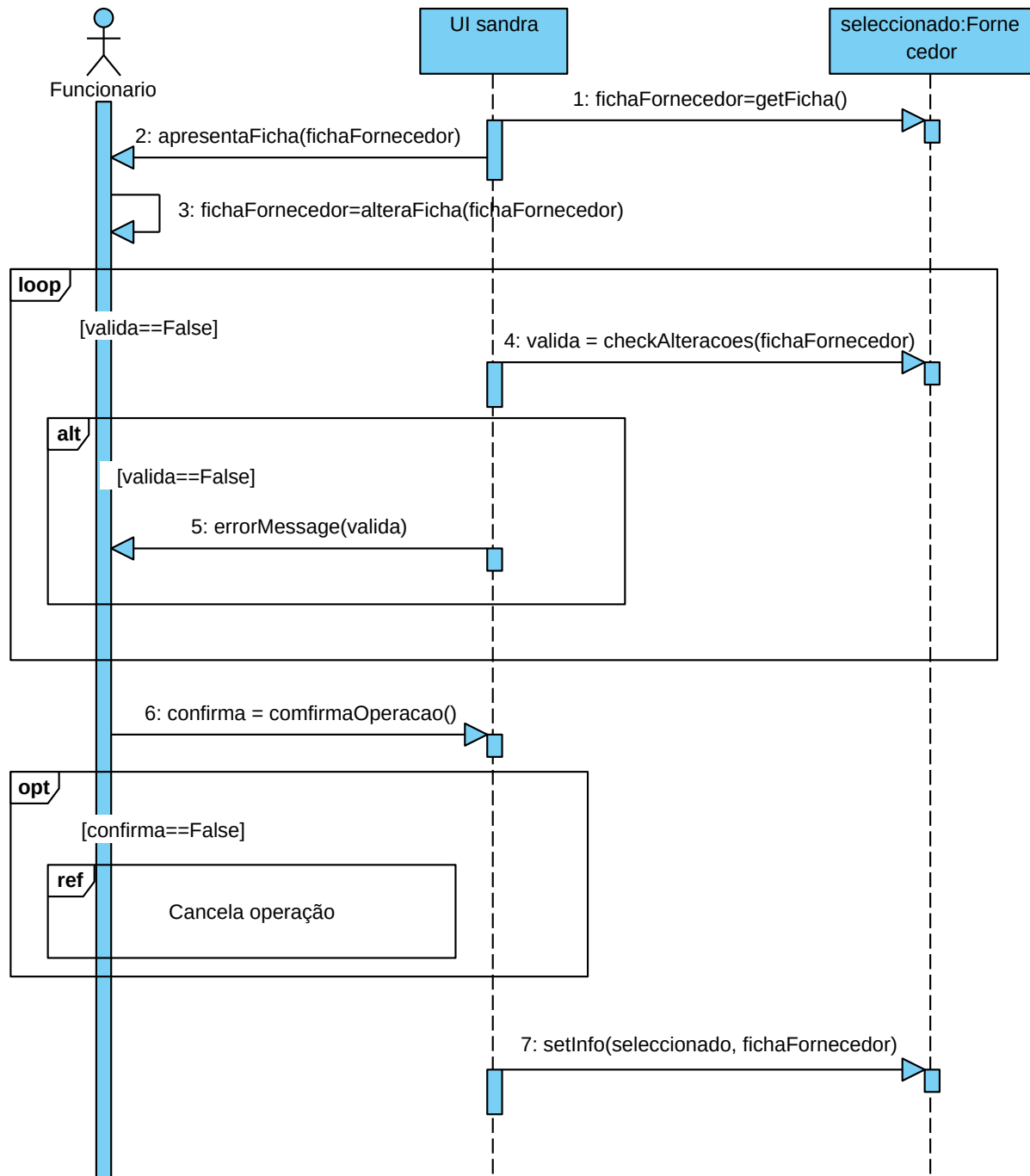
Name	Documentation
 InteractionUse	

InteractionUse

Name	Value
Refers To	 Cancela operação

Sequence Diagram

Alterar Fornecedor passo3



Summary

Name	Documentation
 Funcionario	
 UI sandra	
 seleccionado:Fornecedor	
 valida==False	

 valida==False	
 InteractionOperand	
 InteractionOperand	
 confirma==False	
 InteractionOperand	
 InteractionUse	

Details



Funcionario

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false
Referenced Actor	 Funcionario

Relationships

apresentaFicha(fichaFornecedor) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	2	
Asynchronous	false	

fichaFornecedor=alteraFicha(fichaFornecedor) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Self Message	
Sequence Number	3	
Asynchronous	false	

fichaFornecedor=alteraFicha(fichaFornecedor) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Self Message	
Sequence Number	3	
Asynchronous	false	

errorMessage(valida) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	5	
Asynchronous	false	

confirma = confirmaOperacao() : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	6	
Asynchronous	false	



UI sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

fichaFornecedor=getFicha() : Message		
To	Name	Value
	End Model Element	 selecionado:Fornecedor
Type	Message	
Sequence Number	1	
Asynchronous	false	

apresentaFicha(fichaFornecedor) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	2	
Asynchronous	false	

valida = checkAlteracoes(fichaFornecedor) : Message		
To	Name	Value
	End Model Element	 selecionado:Fornecedor
Type	Message	
Sequence Number	4	
Asynchronous	false	

errorMessage(valida) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	5	
Asynchronous	false	

confirma = confirmaOperacao() : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	6	
Asynchronous	false	

setInfo(selecionado, fichaFornecedor) : Message		
To	Name	Value
	End Model Element	 selecionado:Fornecedor
Type	Message	
Sequence Number	7	
Asynchronous	false	

selecionado:Fornecedor

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

fichaFornecedor=getFicha() : Message		
To	Name	Value
	End Model Element	 selecionado:Fornecedor
Type	Message	
Sequence Number	1	
Asynchronous	false	

valida = checkAlteracoes(fichaFornecedor) : Message		
To	Name	Value
	End Model Element	 selecionado:Fornecedor
Type	Message	
Sequence Number	4	
Asynchronous	false	

setInfo(selecionado, fichaFornecedor) : Message		
To	Name	Value
	End Model Element	 selecionado:Fornecedor
Type	Message	
Sequence Number	7	
Asynchronous	false	

valida==False

Name	Value
Interaction Operator	loop

Interaction Operands

Value
InteractionOperand

Covered LifeLines

Name	Documentation
 Funcionario	
 UI sandra	
 selecionado:Fornecedor	

valida==False

Name	Value
Interaction Operator	alt

Interaction Operands

Value
InteractionOperand

Covered LifeLines

Name	Documentation
 Funcionario	
 UI sandra	

InteractionOperand

Name	Value	
Guard	Name	Value
	Constraint	valida==False

Children

Name	Documentation
 valida==False	

InteractionOperand

Name	Value	
Guard	Name	Value
	Constraint	valida==False

confirma==False

Name	Value
Interaction Operator	opt

Interaction Operands

Value
InteractionOperand

Covered LifeLines

Name	Documentation
 Funcionario	
 UI sandra	

InteractionOperand

Name	Value	
Guard	Name	Value
	Constraint	confirma==False

Children

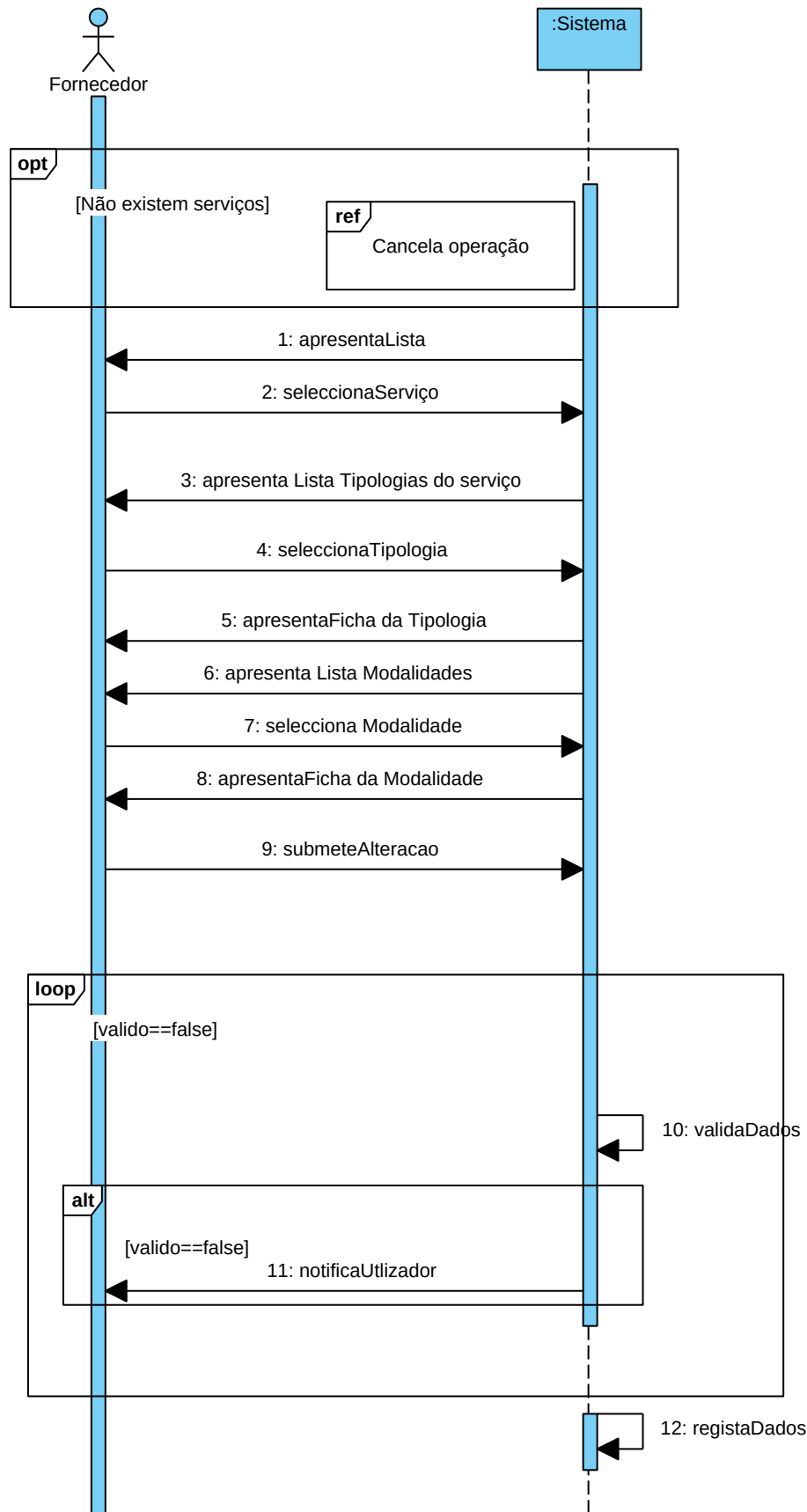
Name	Documentation
 InteractionUse	

InteractionUse

Name	Value
Refers To	 Cancela operação

Sequence Diagram

Alterar Modalidade passo1



Summary

Name	Documentation
 Fornecedor	
 :Sistema	
 Não existem serviços	
 Operand	
 InteractionUse2	
 valido==false	
 Operand	
 valido==false	
 Operand	

Details



Fornecedor

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresentaLista : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	1	
Asynchronous	false	

selecionaServiço : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresenta Lista Tipologias do serviço : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	3	
Asynchronous	false	

selecionaTipologia : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

apresentaFicha da Tipologia : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	5	
Asynchronous	false	

apresenta Lista Modalidades : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	6	
Asynchronous	false	

seleciona Modalidade : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	7	
Asynchronous	false	

apresentaFicha da Modalidade : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	8	
Asynchronous	false	

submeteAlteracao : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	9	
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	11	
Asynchronous	false	



:Sistema

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresentaLista : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	1	
Asynchronous	false	

seleccionaServiço : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresenta Lista Tipologias do serviço : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	3	
Asynchronous	false	

seleccionaTipologia : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

apresentaFicha da Tipologia : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	5	
Asynchronous	false	

apresenta Lista Modalidades : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	6	
Asynchronous	false	

selecciona Modalidade : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	7	
Asynchronous	false	

apresentaFicha da Modalidade : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	8	
Asynchronous	false	

submeteAlteracao : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	9	
Asynchronous	false	

validaDados : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Self Message	
Sequence Number	10	
Asynchronous	false	

validaDados : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Self Message	
Sequence Number	10	
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	11	
Asynchronous	false	

registaDados : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Self Message	
Sequence Number	12	
Asynchronous	false	

registaDados : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Self Message	
Sequence Number	12	
Asynchronous	false	

Não existem serviços

Name	Value
Interaction Operator	opt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Fornecedor	
 :Sistema	

Operand

Name	Value	
Guard	Name	Value
	Constraint	Não existem serviços

Children

Name	Documentation
 InteractionUse2	

InteractionUse2

Name	Value
Refers To	 Cancela operação

valido==false

Name	Value
Interaction Operator	loop

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Fornecedor	
 :Sistema	



Operand

Name	Value	
Guard	Name	Value
	Constraint	valido==false

Children

Name	Documentation
valido==false	



valido==false

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
Fornecedor	
:Sistema	

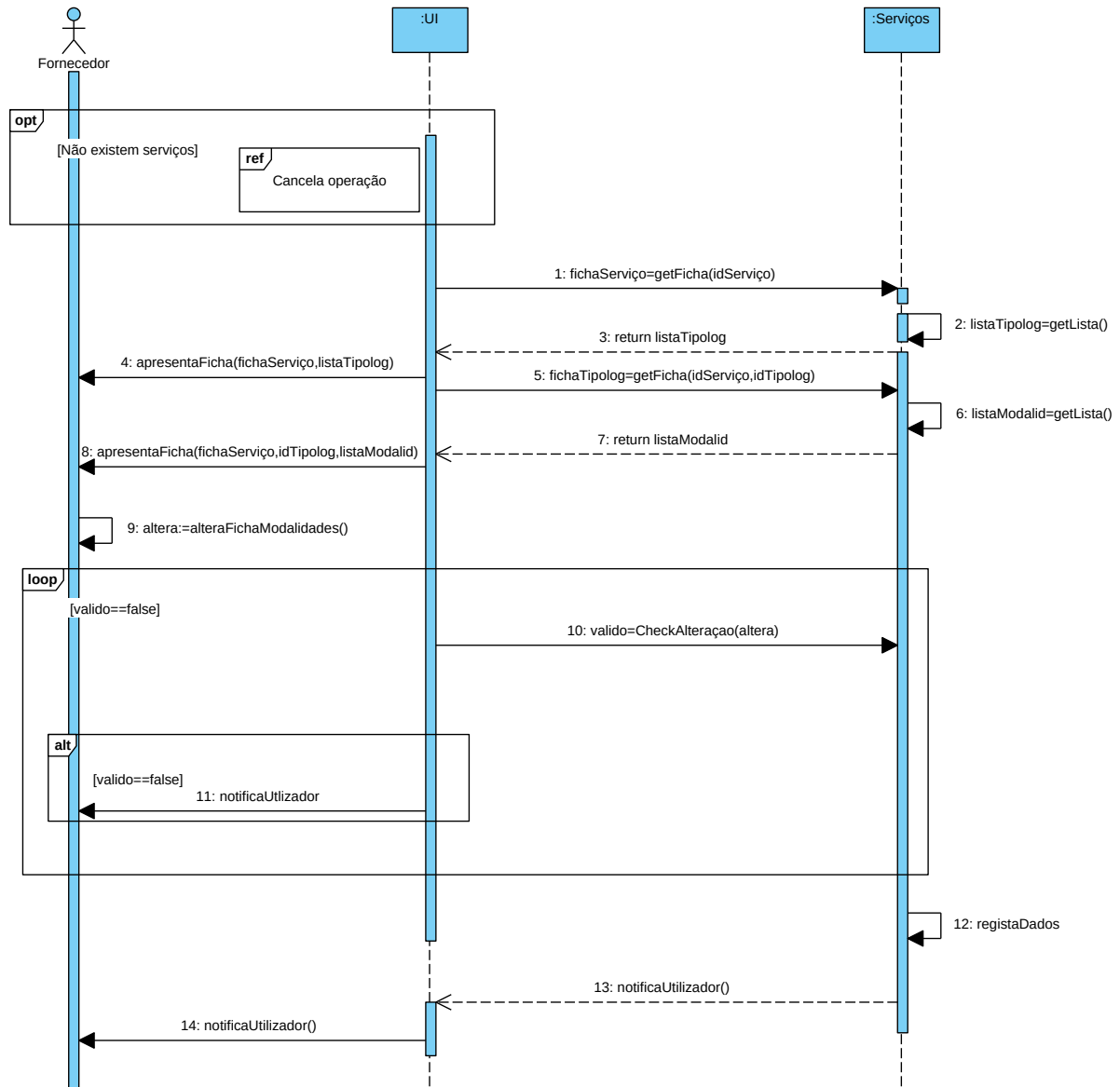


Operand

Name	Value	
Guard	Name	Value
	Constraint	valido==false

Sequence Diagram

Alterar Modalidade passo2



Summary

Name	Documentation
Fornecedor	
:UI	
:Serviços	
Não existem serviços	
Operand	
InteractionUse2	
valido==false	
Operand	

 valido==false	
 Operand	

Details



Fornecedor

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresentaFicha(fichaServiço,listaTipolog) : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	4	
Asynchronous	false	

apresentaFicha(fichaServiço,idTipolog,listaModalid) : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	8	
Asynchronous	false	

altera:=alteraFichaModalidades() : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Self Message	
Sequence Number	9	
Asynchronous	false	

altera:=alteraFichaModalidades() : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Self Message	
Sequence Number	9	
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	11	
Asynchronous	false	

notificaUtilizador() : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	14	
Asynchronous	false	

 :UI

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

fichaServiço=getFicha(idServiço) : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Message	
Sequence Number	1	
Asynchronous	false	

return listaTipolog : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

apresentaFicha(fichaServiço,listaTipolog) : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	4	
Asynchronous	false	

fichaTipolog=getFicha(idServiço,idTipolog) : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Message	
Sequence Number	5	
Asynchronous	false	

return listaModalid : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	7	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

apresentaFicha(fichaServiço,idTipolog,listaModalid) : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	8	
Asynchronous	false	

valido=CheckAlteracao(altera) : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Message	
Sequence Number	10	
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	11	
Asynchronous	false	

notificaUtilizador() : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	13	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

notificaUtilizador() : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	14	
Asynchronous	false	

:Serviços

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

fichaServiço=getFicha(idServiço) : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Message	
Sequence Number	1	
Asynchronous	false	

listaTipolog=getLista() : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Self Message	
Sequence Number	2	
Asynchronous	false	

listaTipolog=getLista() : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Self Message	
Sequence Number	2	
Asynchronous	false	

return listaTipolog : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

fichaTipolog=getFicha(idServiço,idTipolog) : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Message	
Sequence Number	5	
Asynchronous	false	

listaModalid=getLista() : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Self Message	
Sequence Number	6	
Asynchronous	false	

listaModalid=getLista() : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Self Message	
Sequence Number	6	
Asynchronous	false	

return listaModalid : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	7	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

valido=CheckAlteracao(altera) : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Message	
Sequence Number	10	
Asynchronous	false	

registaDados : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Self Message	
Sequence Number	12	
Asynchronous	false	

registarDados : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Self Message	
Sequence Number	12	
Asynchronous	false	

notificaUtilizador() : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	13	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Não existem serviços

Name	Value
Interaction Operator	opt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Fornecedor	
 :UI	

Operand

Name	Value	
Guard	Name	Value
	Constraint	Não existem serviços

Children

Name	Documentation
 InteractionUse2	

InteractionUse2

Name	Value
Refers To	 Cancela operação

valido==false

Name	Value
Interaction Operator	loop

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Fornecedor	
 :UI	
 :Serviços	

Operand

Name	Value	
Guard	Name	Value
	Constraint	valido==false

valido==false

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand

Covered LifeLines

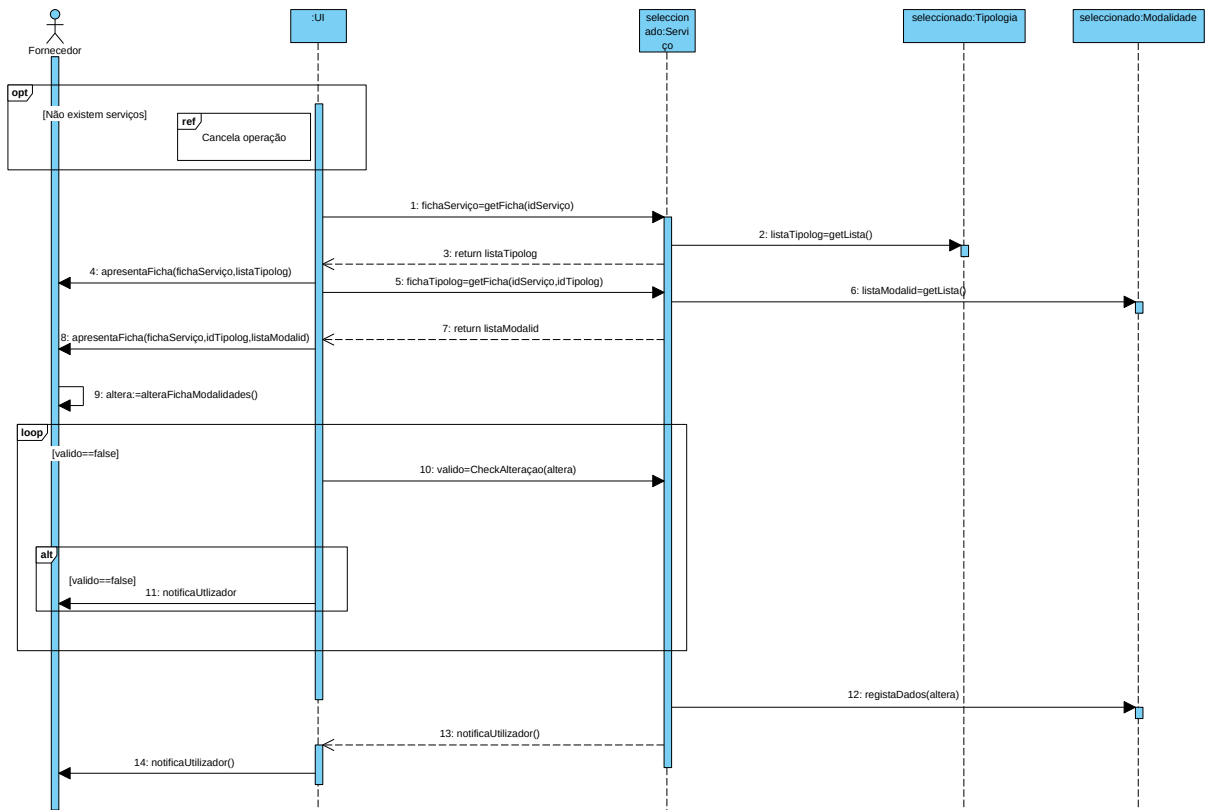
Name	Documentation
 Fornecedor	
 :UI	

Operand

Name	Value	
Guard	Name	Value
	Constraint	valido==false

Sequence Diagram

Alterar Modalidade passo3



Summary

Name	Documentation
Fornecedor	
:UI	
selecionado:Serviço	
selecionado:Tipologia	
selecionado:Modalidade	
Não existem serviços	
Operand	
InteractionUse2	
Operand	
valido==false	
Operand	
valido==false	

Details



Fornecedor

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresentaFicha(fichaServiço,listaTipolog) : Message		
To	Name	Value
	End Model Element	Fornecedor
Type	Message	
Sequence Number	4	
Asynchronous	false	

apresentaFicha(fichaServiço,idTipolog,listaModalid) : Message		
To	Name	Value
	End Model Element	Fornecedor
Type	Message	
Sequence Number	8	
Asynchronous	false	

altera:=alteraFichaModalidades() : Message		
To	Name	Value
	End Model Element	Fornecedor
Type	Self Message	
Sequence Number	9	
Asynchronous	false	

altera:=alteraFichaModalidades() : Message		
To	Name	Value
	End Model Element	Fornecedor
Type	Self Message	
Sequence Number	9	
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	11	
Asynchronous	false	

notificaUtilizador() : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	14	
Asynchronous	false	

 :UI

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

fichaServiço=getFicha(idServiço) : Message		
To	Name	Value
	End Model Element	 selecionado:Serviço
Type	Message	
Sequence Number	1	
Asynchronous	false	

return listaTipolog : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

apresentaFicha(fichaServiço,listaTipolog) : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	4	
Asynchronous	false	

fichaTipolog=getFicha(idServiço,idTipolog) : Message		
To	Name	Value
	End Model Element	 selecionado:Serviço
Type	Message	
Sequence Number	5	
Asynchronous	false	

return listaModalid : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	7	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

apresentaFicha(fichaServiço,idTipolog,listaModalid) : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	8	
Asynchronous	false	

valido=CheckAlteracao(altera) : Message		
To	Name	Value
	End Model Element	 selecionado:Serviço
Type	Message	
Sequence Number	10	
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	11	
Asynchronous	false	

notificaUtilizador() : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	13	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

notificaUtilizador() : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	14	
Asynchronous	false	

selecionado:Serviço

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

fichaServiço=getFicha(idServiço) : Message		
To	Name	Value
	End Model Element	 selecionado:Serviço
Type	Message	
Sequence Number	1	
Asynchronous	false	

listaTipolog=getLista() : Message		
To	Name	Value
	End Model Element	 selecionado:Tipologia
Type	Message	
Sequence Number	2	
Asynchronous	false	

return listaTipolog : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

fichaTipolog=getFicha(idServiço,idTipolog) : Message		
To	Name	Value
	End Model Element	 selecionado:Serviço
Type	Message	
Sequence Number	5	
Asynchronous	false	

listaModalid=getLista() : Message		
To	Name	Value
	End Model Element	 selecionado:Modalidade
Type	Message	
Sequence Number	6	
Asynchronous	false	

return listaModalid : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	7	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

valido=CheckAlteracao(altera) : Message		
To	Name	Value
	End Model Element	 selecionado:Serviço
Type	Message	
Sequence Number	10	
Asynchronous	false	

registaDados(altera) : Message		
To	Name	Value
	End Model Element	 selecionado:Modalidade
Type	Message	
Sequence Number	12	
Asynchronous	false	

notificaUtilizador() : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	13	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

selecionado:Tipologia

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

listaTipolog=getLista() : Message		
To	Name	Value
	End Model Element	 selecionado:Tipologia
Type	Message	
Sequence Number	2	
Asynchronous	false	

selecionado:Modalidade

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

listaModalid=getLista() : Message		
To	Name	Value
	End Model Element	 selecionado:Modalidade
Type	Message	
Sequence Number	6	
Asynchronous	false	

registraDados(altera) : Message		
To	Name	Value
	End Model Element	 selecionado:Modalidade
Type	Message	
Sequence Number	12	
Asynchronous	false	

Não existem serviços

Name	Value
Interaction Operator	opt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Fornecedor	
 :UI	

Operand

Name	Value	
Guard	Name	Value
	Constraint	Não existem serviços

Children

Name	Documentation
 InteractionUse2	

InteractionUse2

Name	Value
Refers To	 Cancela operação

Operand

Name	Value	
Guard	Name	Value
	Constraint	valido==false

valido==false

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Fornecedor	
 :UI	

Operand

Name	Value	
Guard	Name	Value
	Constraint	valido==false

valido==false

Name	Value
Interaction Operator	loop

Interaction Operands

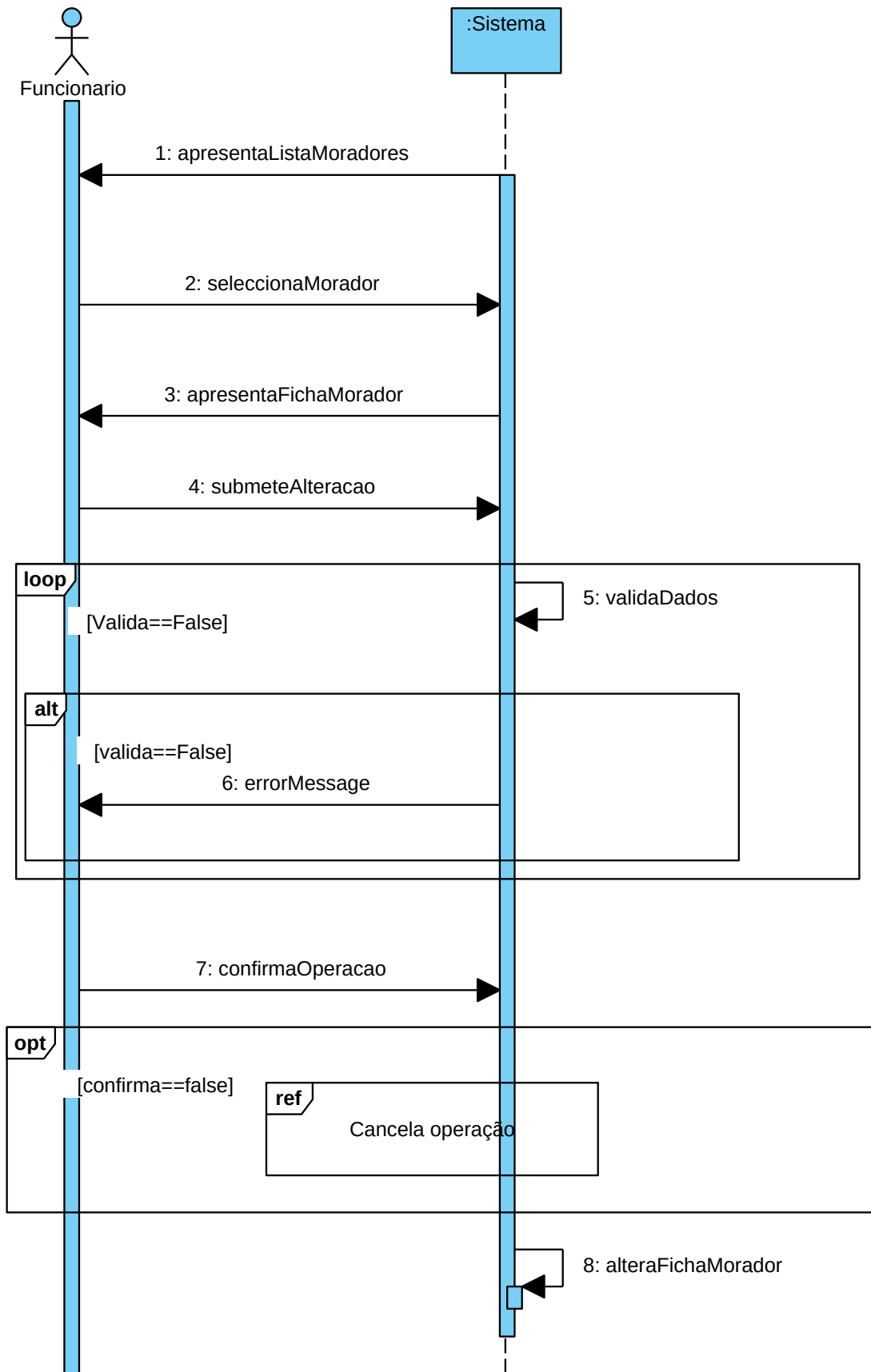
Value
Operand

Covered LifeLines

Name	Documentation
 Fornecedor	
 :UI	
 selecionado:Serviço	

Sequence Diagram

Alterar Morador passo1



Summary

Name	Documentation
 :Sistema	
 Funcionario	
 Valida==False	
 Operand	
 valida==False	
 Operand	
 confirma==false	
 Operand	
 InteractionUse3	

Details

:Sistema

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresentaListaMoradores : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	1	
Asynchronous	false	

selecionaMorador : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresentaFichaMorador : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	3	
Asynchronous	false	

submeteAlteracao : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

validaDados : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Self Message	
Sequence Number	5	
Asynchronous	false	

validaDados : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Self Message	
Sequence Number	5	
Asynchronous	false	

errorMessage : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	6	
Asynchronous	false	

confirmaOperacao : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	7	
Asynchronous	false	

alteraFichaMorador : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Recursive Message	
Sequence Number	8	
Asynchronous	false	

alteraFichaMorador : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Recursive Message	
Sequence Number	8	
Asynchronous	false	



Funcionario

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresentaListaMoradores : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	1	
Asynchronous	false	

selecionaMorador : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresentaFichaMorador : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	3	
Asynchronous	false	

submeteAlteracao : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

errorMessage : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	6	
Asynchronous	false	

confirmaOperacao : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	7	
Asynchronous	false	

 **Valida==False**

Name	Value
Interaction Operator	loop

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Funcionario	
 :Sistema	

Operand

Name	Value	
Guard	Name	Value
	Constraint	valida==False

valida==False

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 :Sistema	
 Funcionario	

Operand

Name	Value	
Guard	Name	Value
	Constraint	valida==False

confirma==false

Name	Value
Interaction Operator	opt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Funcionario	
 :Sistema	

Operand

Name	Value	
Guard	Name	Value
	Constraint	confirma==false

Children

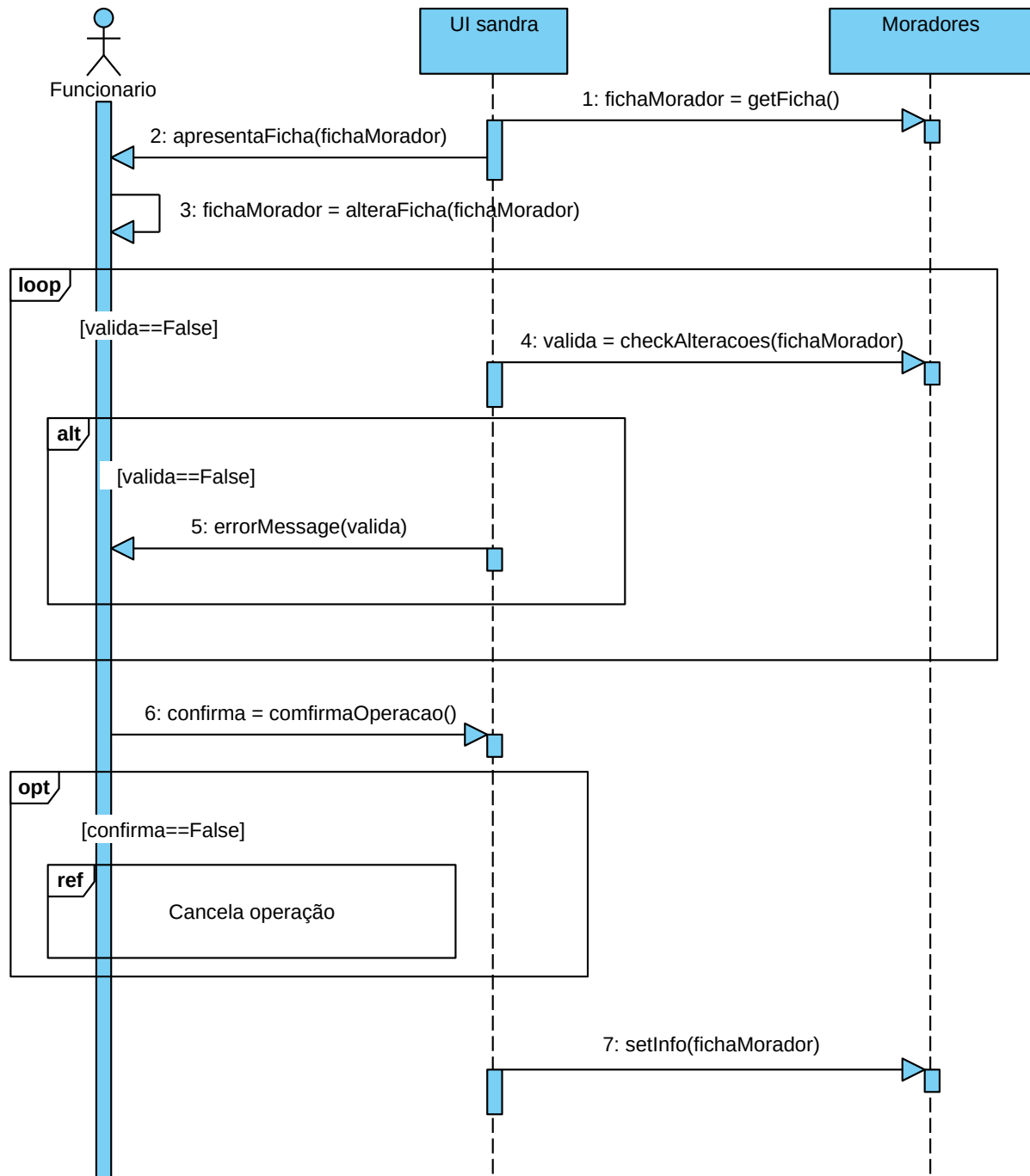
Name	Documentation
 InteractionUse3	

InteractionUse3

Name	Value
Refers To	 Cancela operação

Sequence Diagram

Alterar Morador passo2



Summary

Name	Documentation
 Funcionario	
 UI sandra	
 Moradores	
 valida==False	

 valida==False	
 InteractionOperand	
 InteractionOperand	
 confirma==False	
 InteractionOperand	
 InteractionUse	

Details



Funcionario

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false
Referenced Actor	 Funcionario

Relationships

apresentaFicha(fichaMorador) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	2	
Asynchronous	false	

fichaMorador = alteraFicha(fichaMorador) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Self Message	
Sequence Number	3	
Asynchronous	false	

fichaMorador = alteraFicha(fichaMorador) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Self Message	
Sequence Number	3	
Asynchronous	false	

errorMessage(valida) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	5	
Asynchronous	false	

confirma = confirmaOperacao() : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	6	
Asynchronous	false	



UI sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

fichaMorador = getFicha() : Message		
To	Name	Value
	End Model Element	 Moradores
Type	Message	
Sequence Number	1	
Asynchronous	false	

apresentaFicha(fichaMorador) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	2	
Asynchronous	false	

valida = checkAlteracoes(fichaMorador) : Message		
To	Name	Value
	End Model Element	 Moradores
Type	Message	
Sequence Number	4	
Asynchronous	false	

errorMessage(valida) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	5	
Asynchronous	false	

confirma = confirmaOperacao() : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	6	
Asynchronous	false	

setInfo(fichaMorador) : Message		
To	Name	Value
	End Model Element	 Moradores
Type	Message	
Sequence Number	7	
Asynchronous	false	

Moradores

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

fichaMorador = getFicha() : Message		
To	Name	Value
	End Model Element	 Moradores
Type	Message	
Sequence Number	1	
Asynchronous	false	

valida = checkAlteracoes(fichaMorador) : Message		
To	Name	Value
	End Model Element	 Moradores
Type	Message	
Sequence Number	4	
Asynchronous	false	

setInfo(fichaMorador) : Message		
To	Name	Value
	End Model Element	 Moradores
Type	Message	
Sequence Number	7	
Asynchronous	false	

valida==False

Name	Value
Interaction Operator	loop

Interaction Operands

Value
InteractionOperand

Covered LifeLines

Name	Documentation
 Funcionario	
 UI sandra	
 Moradores	

valida==False

Name	Value
Interaction Operator	alt

Interaction Operands

Value
InteractionOperand

Covered LifeLines

Name	Documentation
 Funcionario	
 UI sandra	

InteractionOperand

Name	Value	
Guard	Name	Value
	Constraint	valida==False

Children

Name	Documentation
 valida==False	

InteractionOperand

Name	Value	
Guard	Name	Value
	Constraint	valida==False

confirma==False

Name	Value
Interaction Operator	opt

Interaction Operands

Value
InteractionOperand

Covered LifeLines

Name	Documentation
 Funcionario	
 UI sandra	

InteractionOperand

Name	Value	
Guard	Name	Value
	Constraint	confirma==False

Children

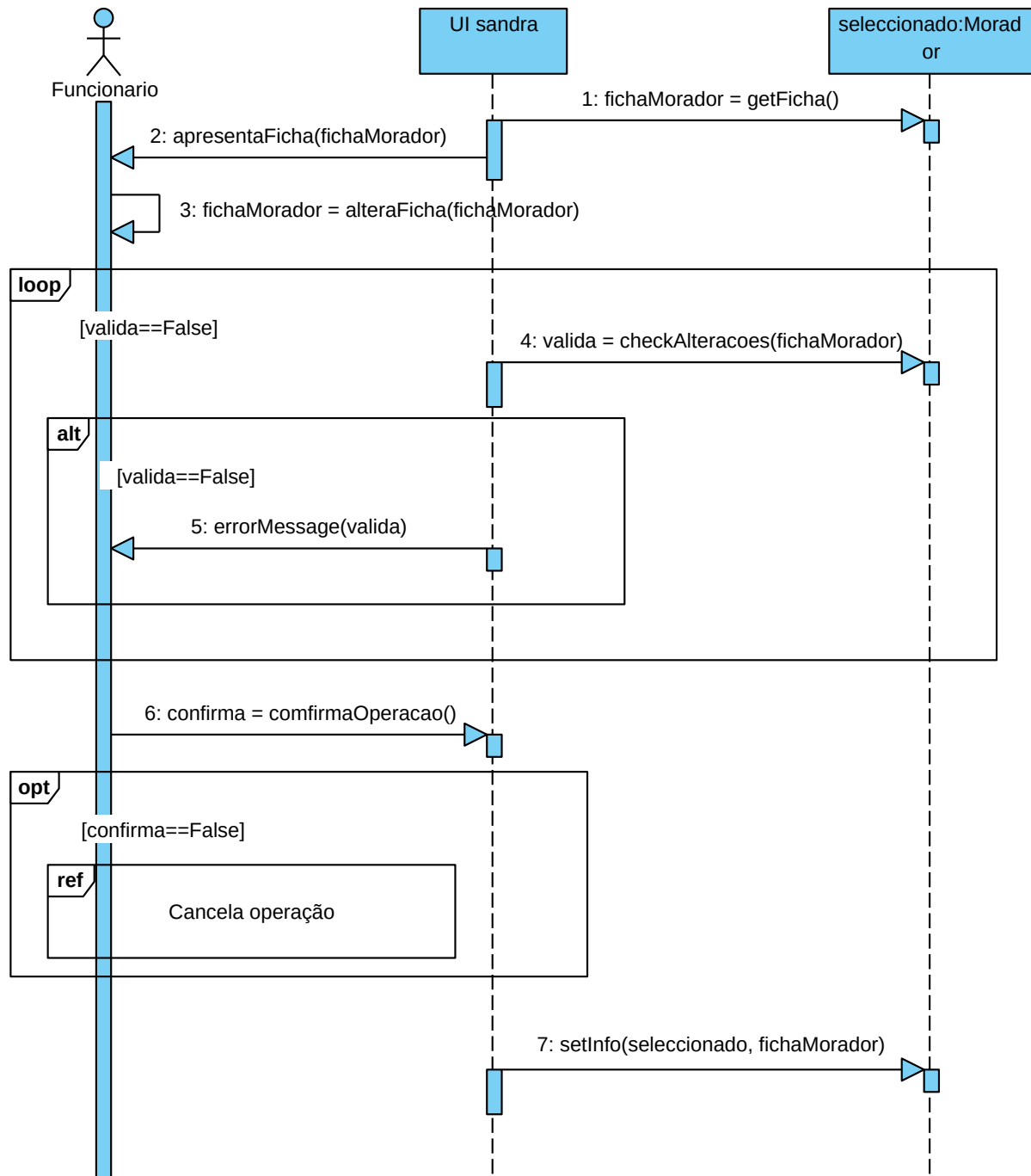
Name	Documentation
 InteractionUse	

InteractionUse

Name	Value
Refers To	 Cancela operação

Sequence Diagram

Alterar Morador passo3



Summary

Name	Documentation
UI sandra	
seleccionado:Morador	
Funcionario	
valida==False	

 InteractionOperand	
 valida==False	
 InteractionOperand	
 confirma==False	
 InteractionOperand	
 InteractionUse	

Details

UI sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

fichaMorador = getFicha() : Message		
To	Name	Value
	End Model Element	 selecionado:Morador
Type	Message	
Sequence Number	1	
Asynchronous	false	

apresentaFicha(fichaMorador) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	2	
Asynchronous	false	

valida = checkAlteracoes(fichaMorador) : Message		
To	Name	Value
	End Model Element	 selecionado:Morador
Type	Message	
Sequence Number	4	
Asynchronous	false	

errorMessage(valida) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	5	
Asynchronous	false	

confirma = confirmaOperacao() : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	6	
Asynchronous	false	

setInfo(seleccionado, fichaMorador) : Message		
To	Name	Value
	End Model Element	 seleccionado:Morador
Type	Message	
Sequence Number	7	
Asynchronous	false	



seleccionado:Morador

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

fichaMorador = getFicha() : Message		
To	Name	Value
	End Model Element	 seleccionado:Morador
Type	Message	
Sequence Number	1	
Asynchronous	false	

valida = checkAlteracoes(fichaMorador) : Message		
To	Name	Value
	End Model Element	 selecionado:Morador
Type	Message	
Sequence Number	4	
Asynchronous	false	

setInfo(selecionado, fichaMorador) : Message		
To	Name	Value
	End Model Element	 selecionado:Morador
Type	Message	
Sequence Number	7	
Asynchronous	false	

Funcionario

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false
Referenced Actor	 Funcionario

Relationships

apresentaFicha(fichaMorador) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	2	
Asynchronous	false	

fichaMorador = alteraFicha(fichaMorador) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Self Message	
Sequence Number	3	
Asynchronous	false	

fichaMorador = alteraFicha(fichaMorador) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Self Message	
Sequence Number	3	
Asynchronous	false	

errorMessage(valida) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	5	
Asynchronous	false	

confirma = confirmaOperacao() : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	6	
Asynchronous	false	

valida==False

Name	Value
Interaction Operator	loop

Interaction Operands

Value
InteractionOperand

Covered LifeLines

Name	Documentation
 Funcionario	
 UI sandra	
 selecionado:Morador	

InteractionOperand

Name	Value	
Guard	Name	Value
	Constraint	valida==False

Children

Name	Documentation
 valida==False	

valida==False

Name	Value
Interaction Operator	alt

Interaction Operands

Value
InteractionOperand

Covered LifeLines

Name	Documentation
 Funcionario	
 UI sandra	

InteractionOperand

Name	Value	
Guard	Name	Value
	Constraint	valida==False

confirma==False

Name	Value
Interaction Operator	opt

Interaction Operands

Value
InteractionOperand

Covered LifeLines

Name	Documentation
 Funcionario	
 UI sandra	

InteractionOperand

Name	Value	
Guard	Name	Value
	Constraint	confirma==False

Children

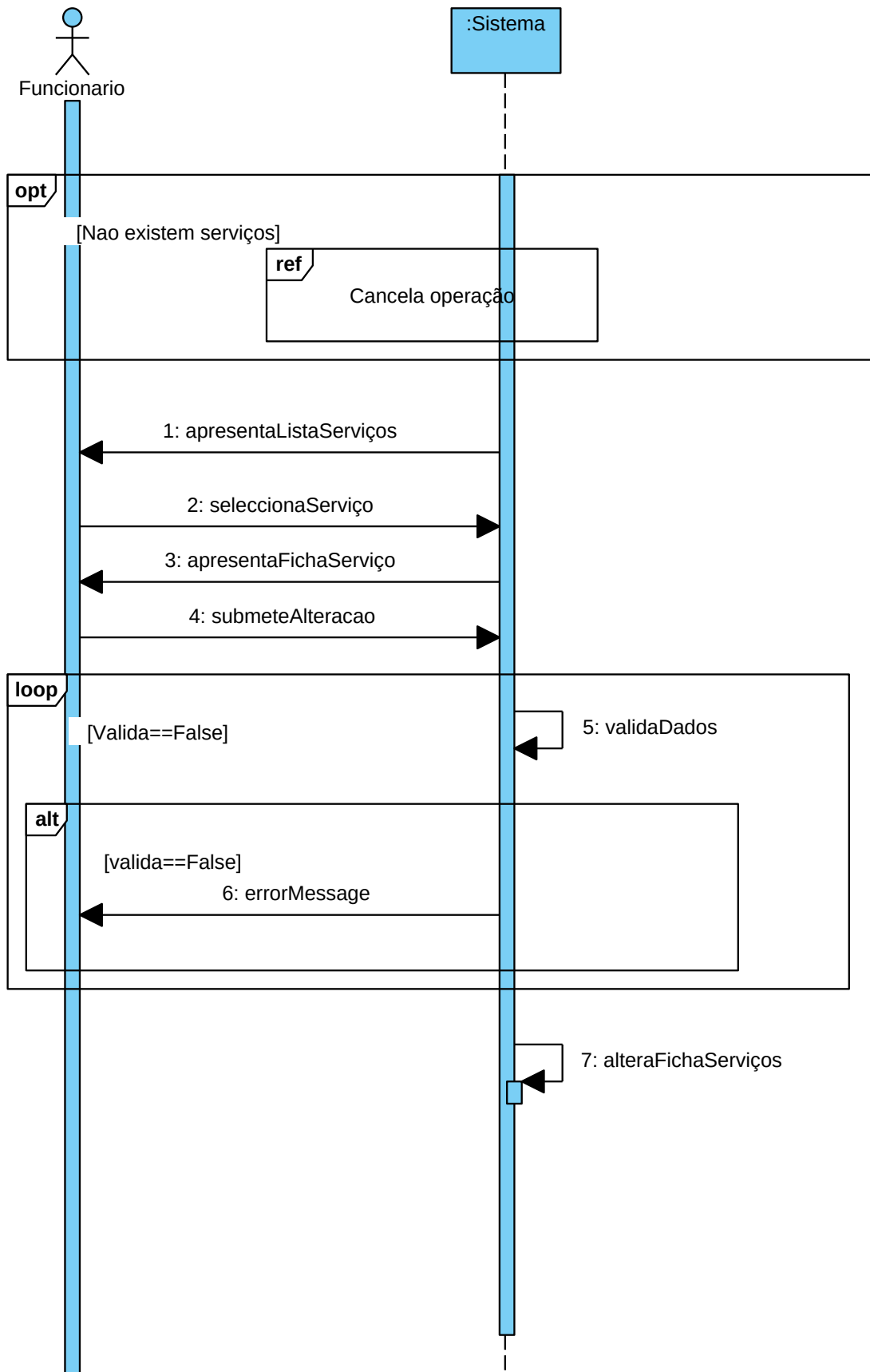
Name	Documentation
 InteractionUse	

InteractionUse

Name	Value
Refers To	 Cancela operação

Sequence Diagram

Alterar Serviço passo1



Summary

Name	Documentation
 Funcionario	
 :Sistema	
 Operand	
 valida==False	
 Valida==False	
 Operand	
 Nao existem serviços	
 Operand	
 InteractionUse3	

Details



Funcionario

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresentaListaServiços : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	1	
Asynchronous	false	

selecionaServiço : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresentaFichaServiço : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	3	
Asynchronous	false	

submeteAlteracao : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

errorMessage : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	6	
Asynchronous	false	



:Sistema

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresentaListaServiços : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	1	
Asynchronous	false	

selecionaServiço : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresentaFichaServiço : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	3	
Asynchronous	false	

submeteAlteracao : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

validaDados : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Self Message	
Sequence Number	5	
Asynchronous	false	

validaDados : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Self Message	
Sequence Number	5	
Asynchronous	false	

errorMessage : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	6	
Asynchronous	false	

alteraFichaServiços : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Recursive Message	
Sequence Number	7	
Asynchronous	false	

alteraFichaServiços : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Recursive Message	
Sequence Number	7	
Asynchronous	false	

Operand

Name	Value	
Guard	Name	Value
	Constraint	Valida==False

Children

Name	Documentation
 valida==False	

valida==False

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 :Sistema	
 Funcionario	

Valida==False

Name	Value
Interaction Operator	loop

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Funcionario	
 :Sistema	

Operand

Name	Value	
Guard	Name	Value
	Constraint	valida==False

Nao existem serviços

Name	Value
Interaction Operator	opt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Funcionario	
 :Sistema	

Operand

Name	Value	
Guard	Name	Value
	Constraint	Nao existem serviços

Children

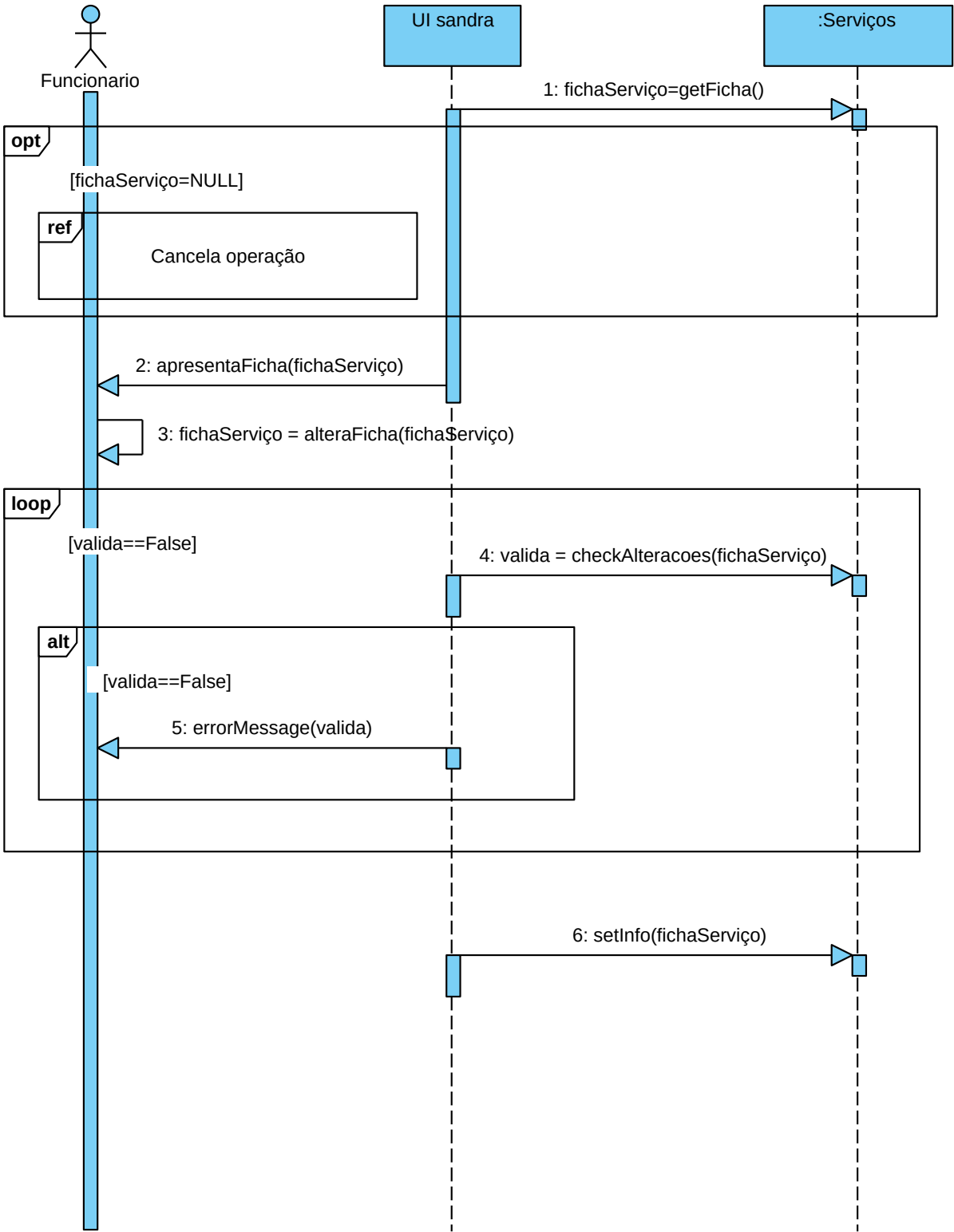
Name	Documentation
 InteractionUse3	

InteractionUse3

Name	Value
Refers To	 Cancela operação

Sequence Diagram

Alterar Serviço passo2



Summary

Name	Documentation

 Funcionario	
 UI sandra	
 :Serviços	
 valida==False	
 InteractionOperand	
 valida==False	
 InteractionOperand	
 fichaServiço=NULL	
 InteractionOperand	
 InteractionUse	

Details



Funcionario

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false
Referenced Actor	 Funcionario

Relationships

apresentaFicha(fichaServiço) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	2	
Asynchronous	false	

fichaServiço = alteraFicha(fichaServiço) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Self Message	
Sequence Number	3	
Asynchronous	false	

fichaServiço = alteraFicha(fichaServiço) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Self Message	
Sequence Number	3	
Asynchronous	false	

errorMessage(valida) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	5	
Asynchronous	false	



UI sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

fichaServiço=getFicha() : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Message	
Sequence Number	1	
Asynchronous	false	

apresentaFicha(fichaServiço) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	2	
Asynchronous	false	

valida = checkAlteracoes(fichaServiço) : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Message	
Sequence Number	4	
Asynchronous	false	

errorMessage(valida) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	5	
Asynchronous	false	

setInfo(fichaServiço) : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Message	
Sequence Number	6	
Asynchronous	false	



:Serviços

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

fichaServiço=getFicha() : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Message	
Sequence Number	1	
Asynchronous	false	

valida = checkAlteracoes(fichaServiço) : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Message	
Sequence Number	4	
Asynchronous	false	

setInfo(fichaServiço) : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Message	
Sequence Number	6	
Asynchronous	false	

valida==False

Name	Value
Interaction Operator	loop

Interaction Operands

Value
InteractionOperand

Covered LifeLines

Name	Documentation
 Funcionario	
 UI sandra	
 :Serviços	

InteractionOperand

Name	Value	
Guard	Name	Value
	Constraint	valida==False

Children

Name	Documentation
 valida==False	

valida==False

Name	Value
Interaction Operator	alt

Interaction Operands

Value
InteractionOperand

Covered LifeLines

Name	Documentation
 Funcionario	
 UI sandra	

InteractionOperand

Name	Value	
Guard	Name	Value
	Constraint	valida==False

fichaServiço=NULL

Name	Value
Interaction Operator	opt

Interaction Operands

Value
InteractionOperand

Covered LifeLines

Name	Documentation
 Funcionario	
 UI sandra	
 :Serviços	

InteractionOperand

Name	Value	
Guard	Name	Value
	Constraint	fichaServiço=NULL

Children

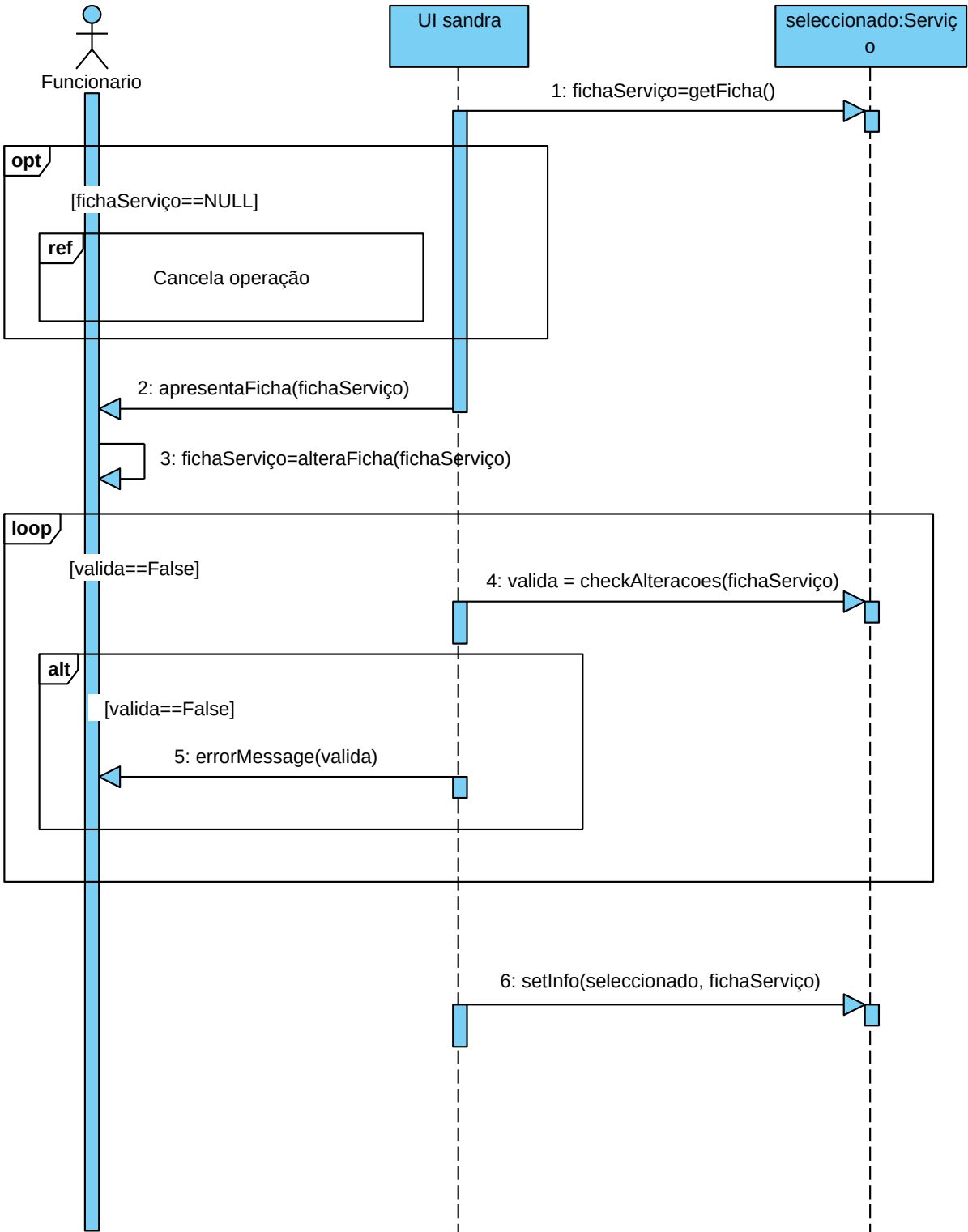
Name	Documentation
 InteractionUse	

InteractionUse

Name	Value
Refers To	 Cancela operação

Sequence Diagram

Alterar Serviço passo3



Summary

Name	Documentation

 Funcionario	
 UI sandra	
 selecionado:Serviço	
 valida==False	
 InteractionOperand	
 valida==False	
 InteractionOperand	
 fichaServiço==NULL	
 InteractionOperand	
 InteractionUse	

Details



Funcionario

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false
Referenced Actor	 Funcionario

Relationships

apresentaFicha(fichaServiço) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	2	
Asynchronous	false	

fichaServiço=alteraFicha(fichaServiço) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Self Message	
Sequence Number	3	
Asynchronous	false	

fichaServiço=alteraFicha(fichaServiço) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Self Message	
Sequence Number	3	
Asynchronous	false	

errorMessage(valida) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	5	
Asynchronous	false	



UI sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

fichaServiço=getFicha() : Message		
To	Name	Value
	End Model Element	 selecionado:Serviço
Type	Message	
Sequence Number	1	
Asynchronous	false	

apresentaFicha(fichaServiço) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	2	
Asynchronous	false	

valida = checkAlteracoes(fichaServiço) : Message		
To	Name	Value
	End Model Element	 selecionado:Serviço
Type	Message	
Sequence Number	4	
Asynchronous	false	

errorMessage(valida) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	5	
Asynchronous	false	

setInfo(selecionado, fichaServiço) : Message		
To	Name	Value
	End Model Element	 selecionado:Serviço
Type	Message	
Sequence Number	6	
Asynchronous	false	



selecionado:Serviço

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

fichaServiço=getFicha() : Message		
To	Name	Value
	End Model Element	 selecionado:Serviço
Type	Message	
Sequence Number	1	
Asynchronous	false	

valida = checkAlteracoes(fichaServiço) : Message		
To	Name	Value
	End Model Element	 selecionado:Serviço
Type	Message	
Sequence Number	4	
Asynchronous	false	

setInfo(seleccionado, fichaServiço) : Message		
To	Name	Value
	End Model Element	 selecionado:Serviço
Type	Message	
Sequence Number	6	
Asynchronous	false	

valida==False

Name	Value
Interaction Operator	loop

Interaction Operands

Value
InteractionOperand

Covered LifeLines

Name	Documentation
 Funcionario	
 UI sandra	
 selecionado:Serviço	

InteractionOperand

Name	Value	
Guard	Name	Value
	Constraint	valida==False

Children

Name	Documentation
 valida==False	

valida==False

Name	Value
Interaction Operator	alt

Interaction Operands

Value
InteractionOperand

Covered LifeLines

Name	Documentation
 Funcionario	
 UI sandra	

InteractionOperand

Name	Value	
Guard	Name	Value
	Constraint	valida==False

fichaServiço==NULL

Name	Value
Interaction Operator	opt

Interaction Operands

Value
InteractionOperand

Covered LifeLines

Name	Documentation
 Funcionario	
 UI sandra	

InteractionOperand

Name	Value	
Guard	Name	Value
	Constraint	fichaServiço==NULL

Children

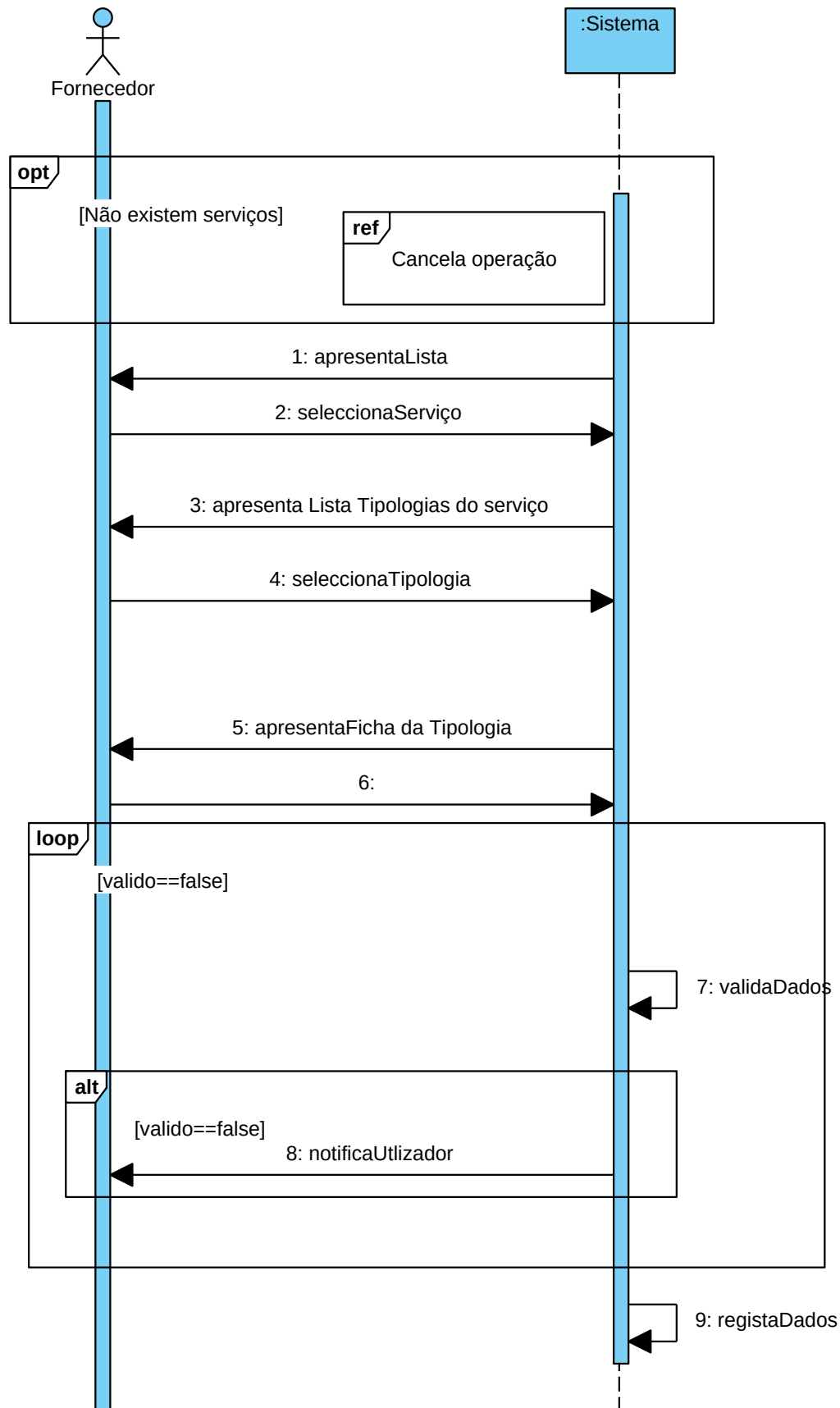
Name	Documentation
 InteractionUse	

InteractionUse

Name	Value
Refers To	 Cancela operação

Sequence Diagram

Alterar Tipologia passo1



Summary

Name	Documentation
 :Sistema	
 Fornecedor	
 Não existem serviços	
 Operand	
 InteractionUse2	
 valido==false	
 Operand	
 valido==false	
 Operand	

Details

:Sistema

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresentaLista : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	1	
Asynchronous	false	

selecionaServiço : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresenta Lista Tipologias do serviço : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	3	
Asynchronous	false	

selecionaTipologia : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

apresentaFicha da Tipologia : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	5	
Asynchronous	false	

Unnamed Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	6	
Asynchronous	false	

validaDados : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Self Message	
Sequence Number	7	
Asynchronous	false	

validaDados : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Self Message	
Sequence Number	7	
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	8	
Asynchronous	false	

registraDados : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Self Message	
Sequence Number	9	
Asynchronous	false	

registraDados : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Self Message	
Sequence Number	9	
Asynchronous	false	



Fornecedor

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresentaLista : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	1	
Asynchronous	false	

selecionaServiço : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresenta Lista Tipologias do serviço : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	3	
Asynchronous	false	

selecionaTipologia : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

apresentaFicha da Tipologia : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	5	
Asynchronous	false	

Unnamed Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	6	
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	8	
Asynchronous	false	

Não existem serviços

Name	Value
Interaction Operator	opt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Fornecedor	
 :Sistema	

Operand

Name	Value	
Guard	Name	Value
	Constraint	Não existem serviços

Children

Name	Documentation
 InteractionUse2	

InteractionUse2

Name	Value
Refers To	 Cancela operação

valido==false

Name	Value
Interaction Operator	loop

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Fornecedor	
 :Sistema	



Operand

Name	Value	
Guard	Name	Value
	Constraint	valido==false

Children

Name	Documentation
valido==false	



valido==false

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
Fornecedor	
:Sistema	

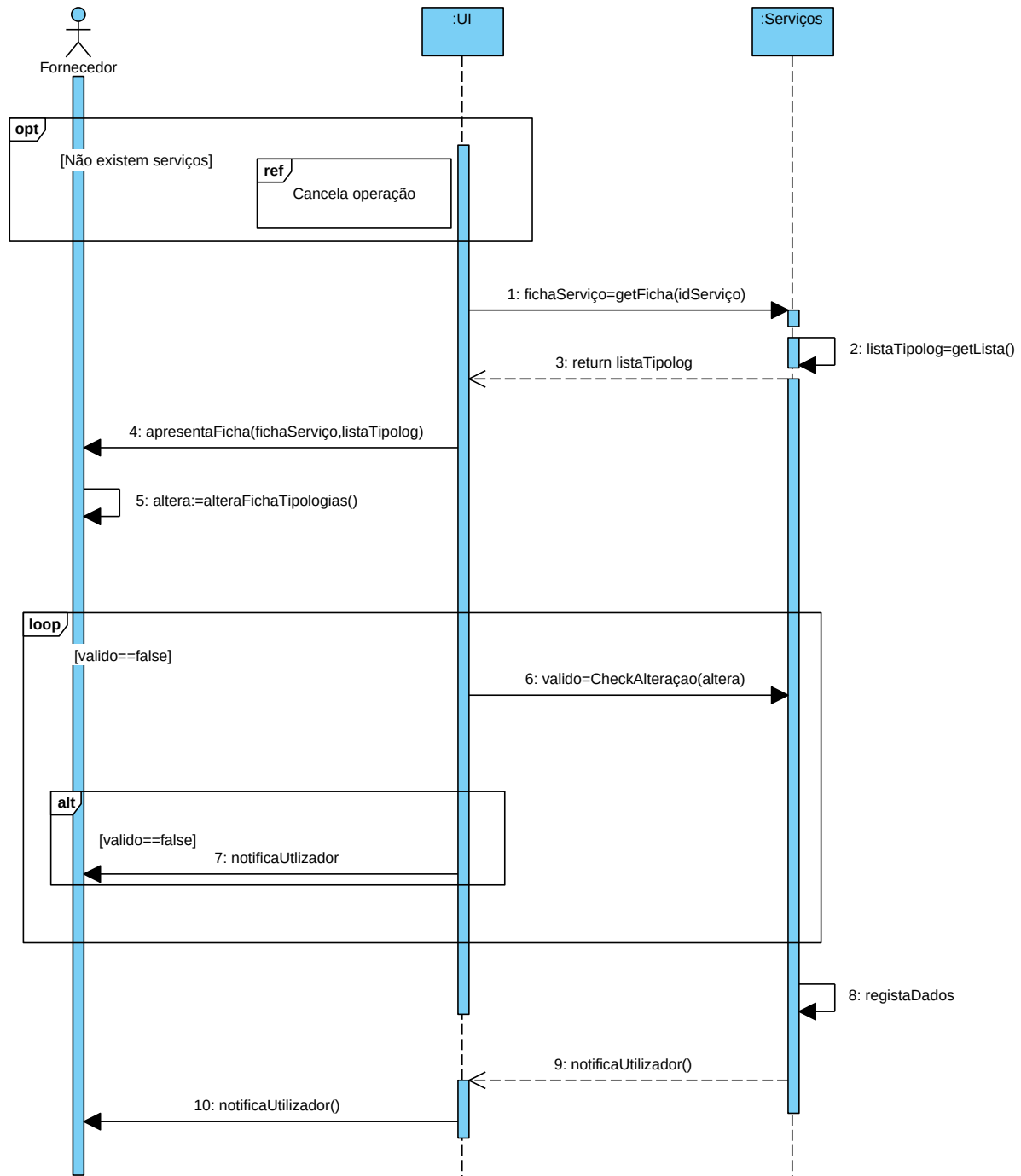


Operand

Name	Value	
Guard	Name	Value
	Constraint	valido==false

Sequence Diagram

Alterar Tipologia passo2



Summary

Name	Documentation
 :UI	
 Fornecedor	
 :Serviços	

 Não existem serviços	
 Operand	
 InteractionUse2	
 valido==false	
 Operand	
 valido==false	
 Operand	

Details

 :UI

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

fichaServiço=getFicha(idServiço) : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Message	
Sequence Number	1	
Asynchronous	false	

return listaTipolog : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

apresentaFicha(fichaServiço,listaTipolog) : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	4	
Asynchronous	false	

valido=CheckAlteracao(altera) : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Message	
Sequence Number	6	
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	7	
Asynchronous	false	

notificaUtilizador() : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	9	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

notificaUtilizador() : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	10	
Asynchronous	false	



Fornecedor

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresentaFicha(fichaServiço,listaTipolog) : Message		
To	Name	Value
	End Model Element	Fornecedor
Type	Message	
Sequence Number	4	
Asynchronous	false	

altera:=alteraFichaTipologias() : Message		
To	Name	Value
	End Model Element	Fornecedor
Type	Self Message	
Sequence Number	5	
Asynchronous	false	

altera:=alteraFichaTipologias() : Message		
To	Name	Value
	End Model Element	Fornecedor
Type	Self Message	
Sequence Number	5	
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	Fornecedor
Type	Message	
Sequence Number	7	
Asynchronous	false	

notificaUtilizador() : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	10	
Asynchronous	false	

:Serviços

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

fichaServiço=getFicha(idServiço) : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Message	
Sequence Number	1	
Asynchronous	false	

listaTipolog=getLista() : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Self Message	
Sequence Number	2	
Asynchronous	false	

listaTipolog=getLista() : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Self Message	
Sequence Number	2	
Asynchronous	false	

return listaTipolog : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

valido=CheckAlteracao(altera) : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Message	
Sequence Number	6	
Asynchronous	false	

registaDados : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Self Message	
Sequence Number	8	
Asynchronous	false	

registaDados : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Self Message	
Sequence Number	8	
Asynchronous	false	

notificaUtilizador() : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	9	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Não existem serviços

Name	Value
Interaction Operator	opt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Fornecedor	
 :UI	

Operand

Name	Value	
Guard	Name	Value
	Constraint	Não existem serviços

Children

Name	Documentation
 InteractionUse2	

InteractionUse2

Name	Value
Refers To	 Cancela operação

valido==false

Name	Value
Interaction Operator	loop

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Fornecedor	
 :UI	
 :Serviços	



Operand

Name	Value	
Guard	Name	Value
	Constraint	valido==false



valido==false

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Fornecedor	
 :UI	

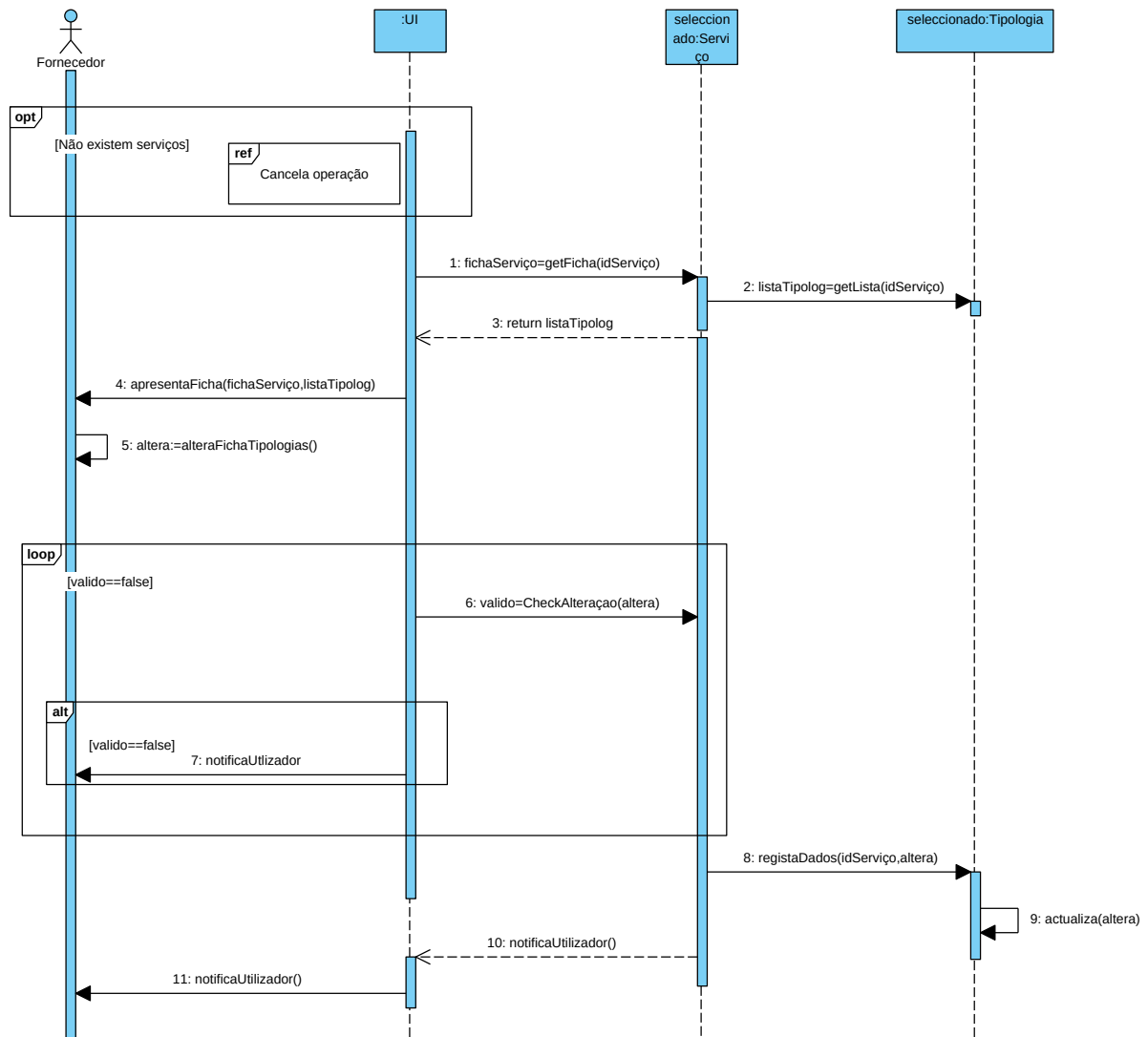


Operand

Name	Value	
Guard	Name	Value
	Constraint	valido==false

Sequence Diagram

Alterar Tipologia passo3



Summary

Name	Documentation
Fornecedor	
:UI	
selecionado:Serviço	
selecionado:Tipologia	
Não existem serviços	
Operand	
InteractionUse2	
valido==false	
Operand	
valido==false	

 Operand	

Details

Fornecedor

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresentaFicha(fichaServiço,listaTipolog) : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	4	
Asynchronous	false	

altera:=alteraFichaTipologias() : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Self Message	
Sequence Number	5	
Asynchronous	false	

altera:=alteraFichaTipologias() : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Self Message	
Sequence Number	5	
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	7	
Asynchronous	false	

notificaUtilizador() : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	11	
Asynchronous	false	

 :UI

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

fichaServiço=getFicha(idServiço) : Message		
To	Name	Value
	End Model Element	 selecionado:Serviço
Type	Message	
Sequence Number	1	
Asynchronous	false	

return listaTipolog : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

apresentaFicha(fichaServiço,listaTipolog) : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	4	
Asynchronous	false	

valido=CheckAlteracao(altera) : Message		
To	Name	Value
	End Model Element	 seleccionado:Serviço
Type	Message	
Sequence Number	6	
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	7	
Asynchronous	false	

notificaUtilizador() : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	10	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

notificaUtilizador() : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	11	
Asynchronous	false	

seleccionado:Serviço

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

fichaServiço=getFicha(idServiço) : Message		
To	Name	Value
	End Model Element	 selecionado:Serviço
Type	Message	
Sequence Number	1	
Asynchronous	false	

listaTipolog=getLista(idServiço) : Message		
To	Name	Value
	End Model Element	 selecionado:Tipologia
Type	Message	
Sequence Number	2	
Asynchronous	false	

return listaTipolog : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

valido=CheckAlteracao(altera) : Message		
To	Name	Value
	End Model Element	 selecionado:Serviço
Type	Message	
Sequence Number	6	
Asynchronous	false	

registaDados(idServiço,altera) : Message		
To	Name	Value
	End Model Element	 selecionado:Tipologia
Type	Message	
Sequence Number	8	
Asynchronous	false	

notificaUtilizador() : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	10	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	



seleccionado:Tipologia

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

listaTipolog=getLista(idServiço) : Message		
To	Name	Value
	End Model Element	 seleccionado:Tipologia
Type	Message	
Sequence Number	2	
Asynchronous	false	

registaDados(idServiço,altera) : Message		
To	Name	Value
	End Model Element	 seleccionado:Tipologia
Type	Message	
Sequence Number	8	
Asynchronous	false	

actualiza(altera) : Message		
To	Name	Value
	End Model Element	 seleccionado:Tipologia
Type	Self Message	
Sequence Number	9	
Asynchronous	false	

actualiza(altera) : Message		
To	Name	Value
	End Model Element	 selecionado:Tipologia
Type	Self Message	
Sequence Number	9	
Asynchronous	false	

Não existem serviços

Name	Value
Interaction Operator	opt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Fornecedor	
 :UI	

Operand

Name	Value	
Guard	Name	Value
	Constraint	Não existem serviços

Children

Name	Documentation
 InteractionUse2	

InteractionUse2

Name	Value
Refers To	 Cancela operação

valido==false

Name	Value
Interaction Operator	loop

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Fornecedor	
 :UI	
 selecionado:Serviço	

Operand

Name	Value	
Guard	Name	Value
	Constraint	valido==false

valido==false

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand

Covered LifeLines

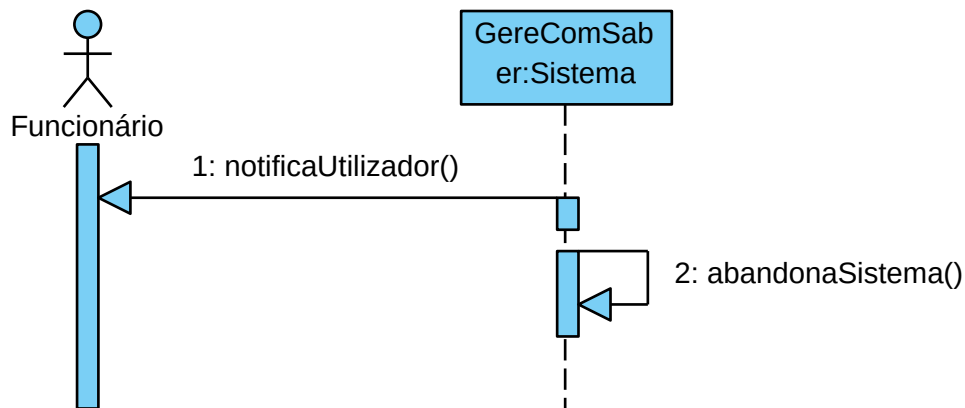
Name	Documentation
 Fornecedor	
 :UI	

Operand

Name	Value	
Guard	Name	Value
	Constraint	valido==false

Sequence Diagram

Cancela operação



Summary

Name	Documentation
 GereComSaber:Sistema	
 Funcionário	

Details

GereComSaber:Sistema

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

notificaUtilizador() : Message		
To	Name	Value
	End Model Element	 Funcionário
Type	Message	
Sequence Number	1	
Asynchronous	false	

abandonaSistema() : Message		
To	Name	Value
	End Model Element	 GereComSaber:Sistema
Type	Self Message	
Sequence Number	2	
Asynchronous	false	

abandonaSistema() : Message		
To	Name	Value
	End Model Element	 GereComSaber:Sistema
Type	Self Message	
Sequence Number	2	
Asynchronous	false	



Funcionário

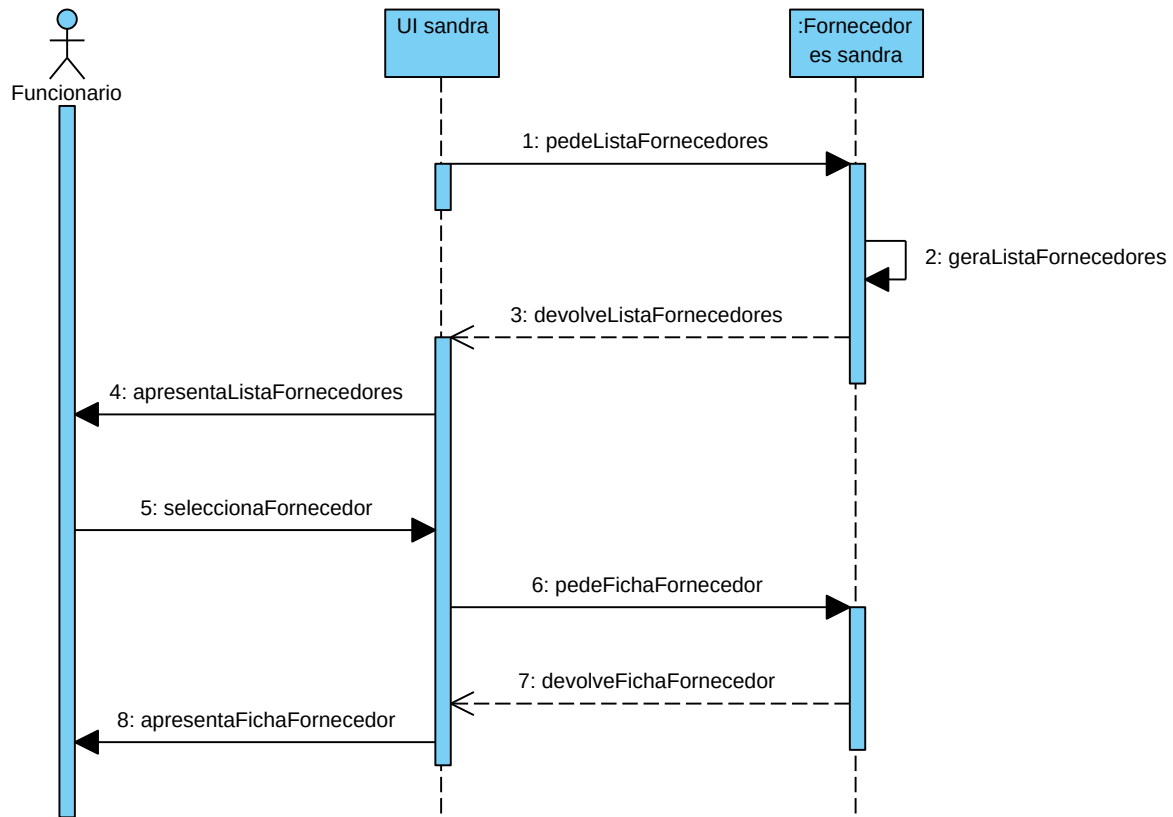
Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

notificaUtilizador() : Message		
To	Name	Value
	End Model Element	 Funcionário
Type	Message	
Sequence Number	1	
Asynchronous	false	

Sequence Diagram

Consulta Fornecedor passo2



Summary

Name	Documentation
 Funcionario	
 UI sandra	
 :Fornecedores sandra	

Details



Funcionario

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresentaListaFornecedores : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	4	
Asynchronous	false	

selecionaFornecedor : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	5	
Asynchronous	false	

apresentaFichaFornecedor : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	8	
Asynchronous	false	

UI sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

pedeListaFornecedores : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Message	
Sequence Number	1	
Asynchronous	false	

devolveListaFornecedores : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

apresentaListaFornecedores : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	4	
Asynchronous	false	

selecionaFornecedor : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	5	
Asynchronous	false	

pedeFichaFornecedor : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Message	
Sequence Number	6	
Asynchronous	false	

devolveFichaFornecedor : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	7	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

apresentaFichaFornecedor : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	8	
Asynchronous	false	

:Fornecedores sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

pedeListaFornecedores : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Message	
Sequence Number	1	
Asynchronous	false	

geraListaFornecedores : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Self Message	
Sequence Number	2	
Asynchronous	false	

geraListaFornecedores : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Self Message	
Sequence Number	2	
Asynchronous	false	

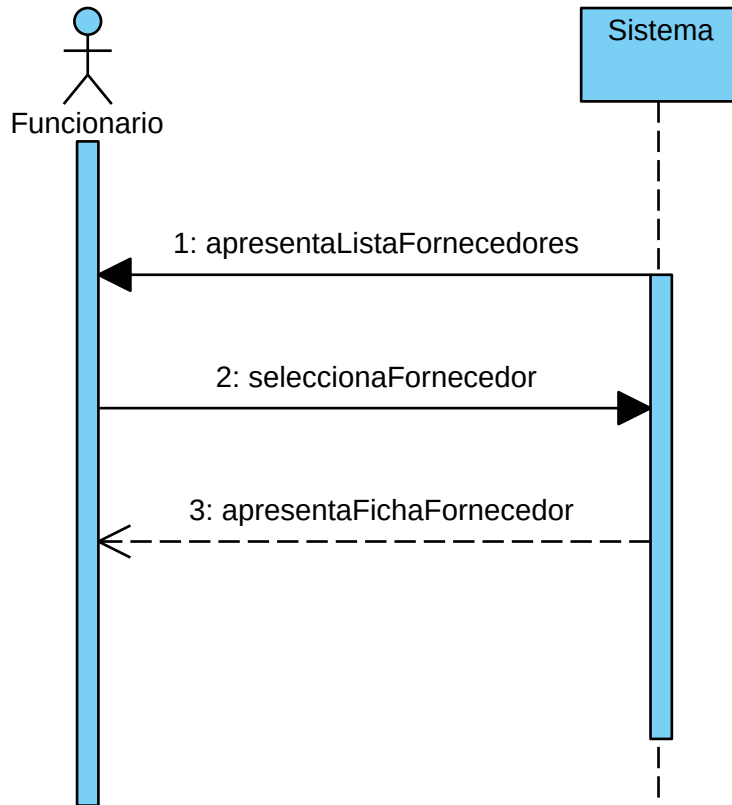
devolveListaFornecedores : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

pedeFichaFornecedor : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Message	
Sequence Number	6	
Asynchronous	false	

devolveFichaFornecedor : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	7	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Sequence Diagram

Consultar Fornecedor passo1



Summary

Name	Documentation
 Funcionario	
 Sistema	

Details



Funcionario

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresentaListaFornecedores : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	1	
Asynchronous	false	

selecionaFornecedor : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresentaFichaFornecedor : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Sistema

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

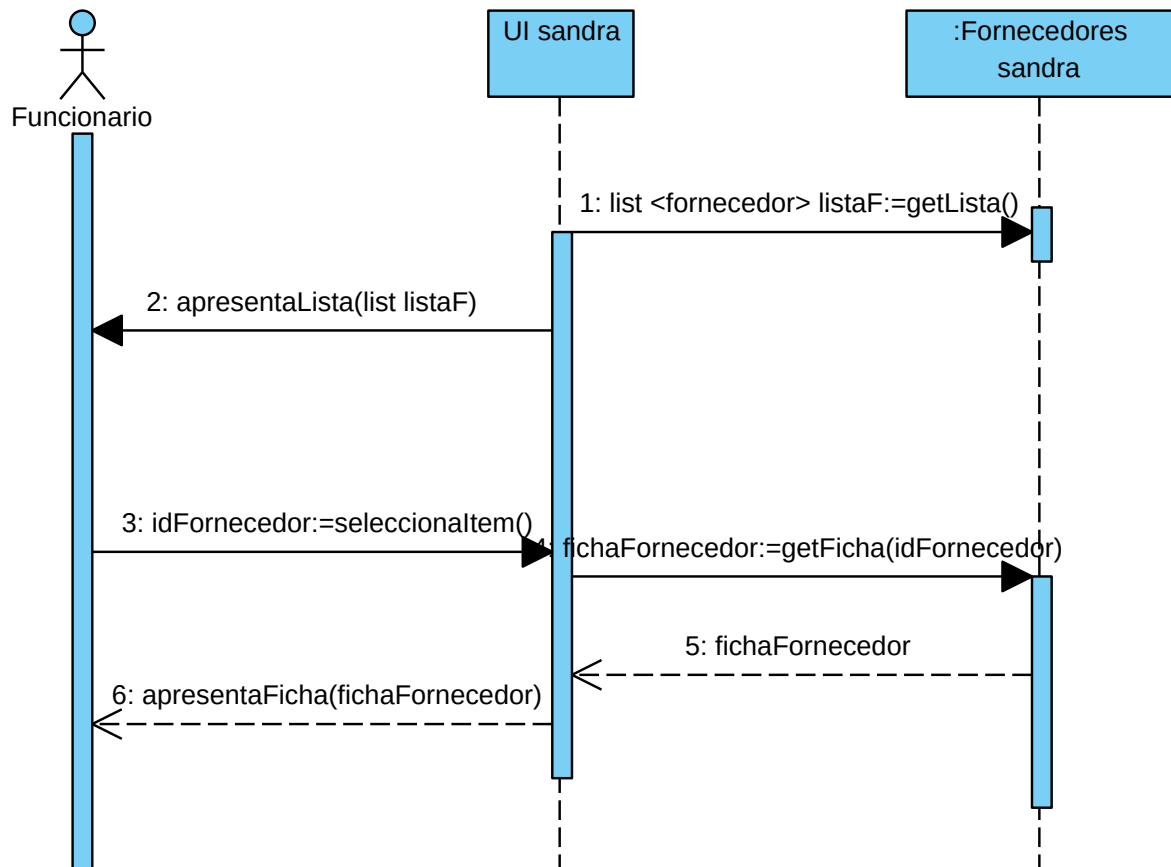
apresentaListaFornecedores : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	1	
Asynchronous	false	

seleccionaFornecedor : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresentaFichaFornecedor : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Sequence Diagram

Consultar Fornecedor passo3



Summary

Name	Documentation
 Funcionario	
 UI sandra	
 :Fornecedores sandra	

Details

Funcionario

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresentaLista(list listaF) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	2	
Asynchronous	false	

idFornecedor:=seleccionaltem() : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	3	
Asynchronous	false	

apresentaFicha(fichaFornecedor) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	6	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

UI sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

list <fornecedor> listaF:=getLista() : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Message	
Sequence Number	1	
Asynchronous	false	

apresentaLista(list listaF) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	2	
Asynchronous	false	

idFornecedor:=seleccionaltem() : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	3	
Asynchronous	false	

fichaFornecedor:=getFicha(idFornecedor) : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Message	
Sequence Number	4	
Asynchronous	false	

fichaFornecedor : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	5	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

apresentaFicha(fichaFornecedor) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	6	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

:Fornecedores sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

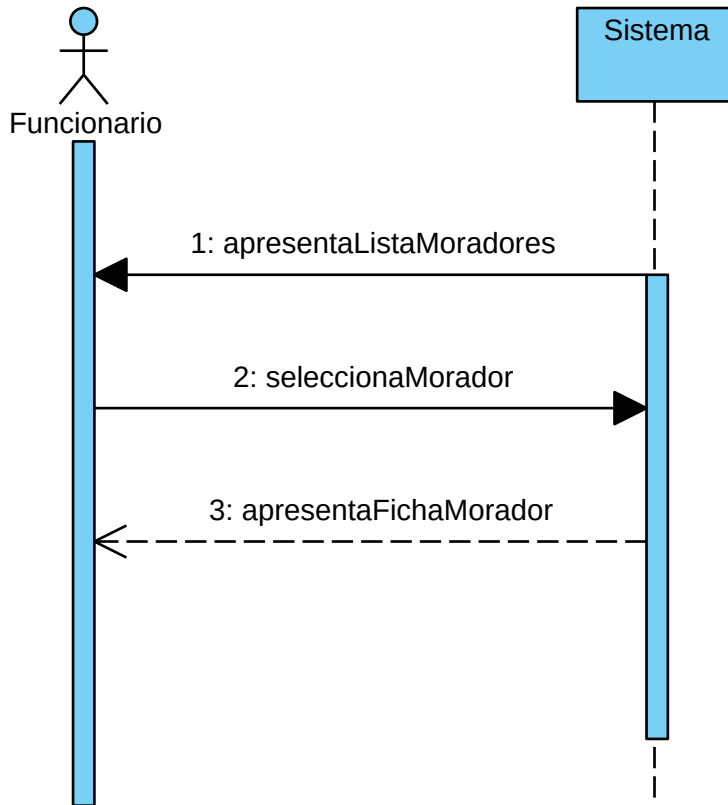
list <fornecedor> listaF:=getLista() : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Message	
Sequence Number	1	
Asynchronous	false	

fichaFornecedor:=getFicha(idFornecedor) : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Message	
Sequence Number	4	
Asynchronous	false	

fichaFornecedor : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	5	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Sequence Diagram

Consultar Morador passo1



Summary

Name	Documentation
 Sistema	
 Funcionario	

Details

Sistema

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresentaListaMoradores : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	1	
Asynchronous	false	

selecionaMorador : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresentaFichaMorador : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	



Funcionario

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

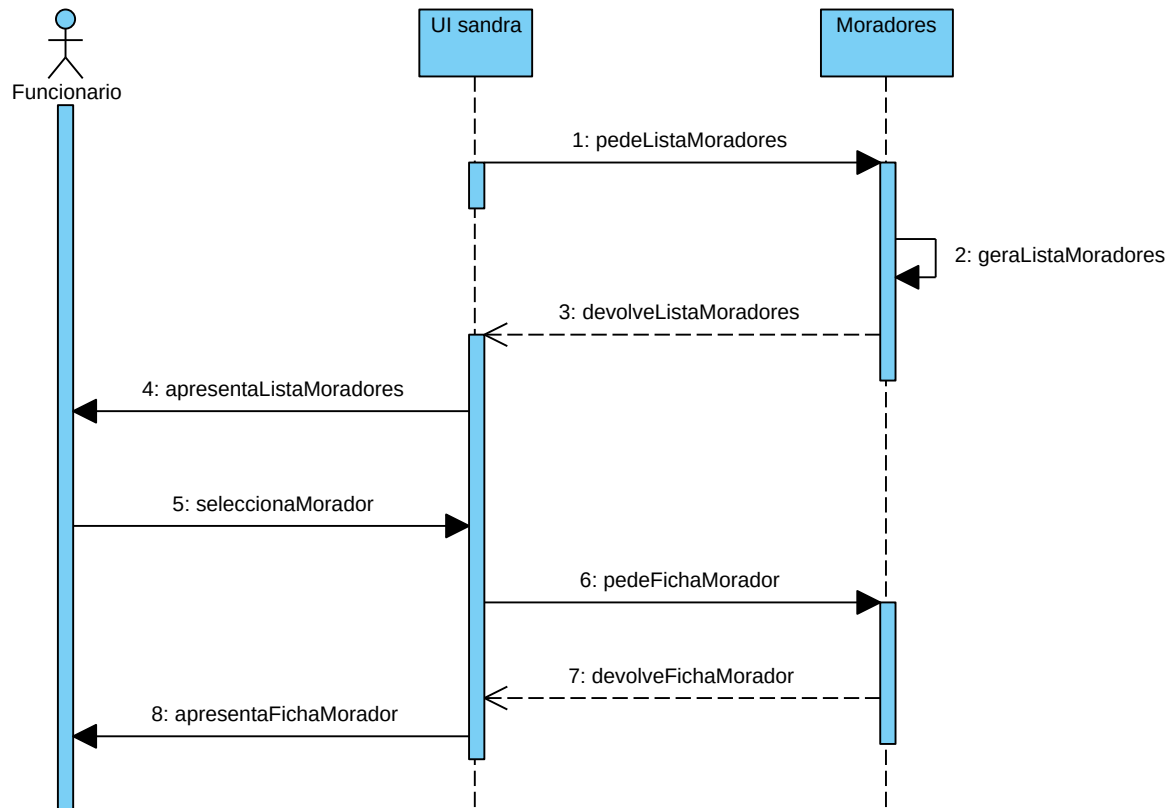
apresentaListaMoradores : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	1	
Asynchronous	false	

selecionaMorador : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresentaFichaMorador : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Sequence Diagram

Consultar Morador passo2



Summary

Name	Documentation
 UI sandra	
 Moradores	
 Funcionario	

Details

UI sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

pedeListaMoradores : Message		
To	Name	Value
	End Model Element	 Moradores
Type	Message	
Sequence Number	1	
Asynchronous	false	

devolveListaMoradores : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

apresentaListaMoradores : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	4	
Asynchronous	false	

selecionaMorador : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	5	
Asynchronous	false	

pedeFichaMorador : Message		
To	Name	Value
	End Model Element	 Moradores
Type	Message	
Sequence Number	6	
Asynchronous	false	

devolveFichaMorador : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	7	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

apresentaFichaMorador : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	8	
Asynchronous	false	

Moradores

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

pedeListaMoradores : Message		
To	Name	Value
	End Model Element	 Moradores
Type	Message	
Sequence Number	1	
Asynchronous	false	

geraListaMoradores : Message		
To	Name	Value
	End Model Element	 Moradores
Type	Self Message	
Sequence Number	2	
Asynchronous	false	

geralListaMoradores : Message		
To	Name	Value
	End Model Element	 Moradores
Type	Self Message	
Sequence Number	2	
Asynchronous	false	

devolveListaMoradores : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

pedeFichaMorador : Message		
To	Name	Value
	End Model Element	 Moradores
Type	Message	
Sequence Number	6	
Asynchronous	false	

devolveFichaMorador : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	7	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	



Funcionario

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

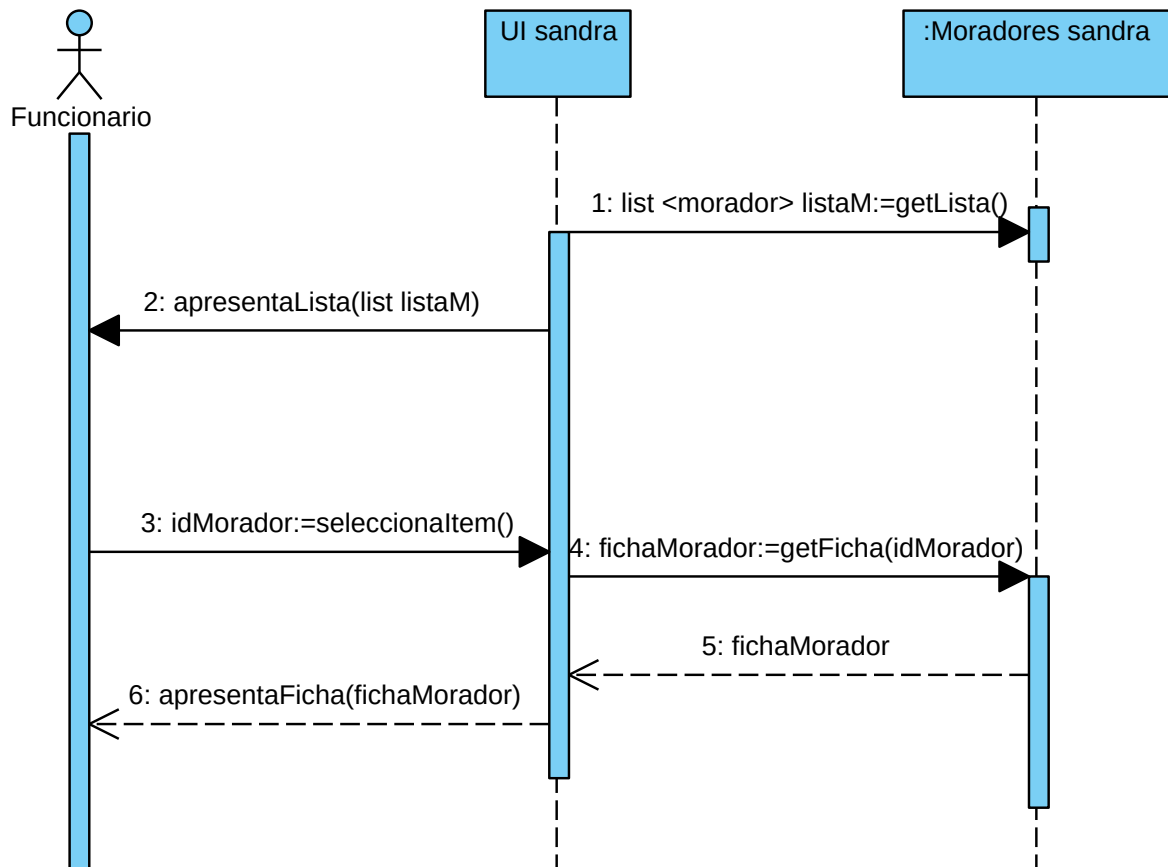
apresentaListaMoradores : Message		
To	Name	Value
	End Model Element	Funcionario
Type	Message	
Sequence Number	4	
Asynchronous	false	

selecionaMorador : Message		
To	Name	Value
	End Model Element	UI sandra
Type	Message	
Sequence Number	5	
Asynchronous	false	

apresentaFichaMorador : Message		
To	Name	Value
	End Model Element	Funcionario
Type	Message	
Sequence Number	8	
Asynchronous	false	

Sequence Diagram

Consultar Morador passo3



Summary

Name	Documentation
 UI sandra	
 :Moradores sandra	
 Funcionario	

Details

UI sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

list <morador> listaM:=getLista() : Message		
To	Name	Value
	End Model Element	 :Moradores sandra
Type	Message	
Sequence Number	1	
Asynchronous	false	

apresentaLista(list listaM) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	2	
Asynchronous	false	

idMorador:=seleccionalItem() : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	3	
Asynchronous	false	

fichaMorador:=getFicha(idMorador) : Message		
To	Name	Value
	End Model Element	 :Moradores sandra
Type	Message	
Sequence Number	4	
Asynchronous	false	

fichaMorador : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	5	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

apresentaFicha(fichaMorador) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	6	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	



:Moradores sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

list <morador> listaM:=getLista() : Message		
To	Name	Value
	End Model Element	 :Moradores sandra
Type	Message	
Sequence Number	1	
Asynchronous	false	

fichaMorador:=getFicha(idMorador) : Message		
To	Name	Value
	End Model Element	 :Moradores sandra
Type	Message	
Sequence Number	4	
Asynchronous	false	

fichaMorador : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	5	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	



Funcionario

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

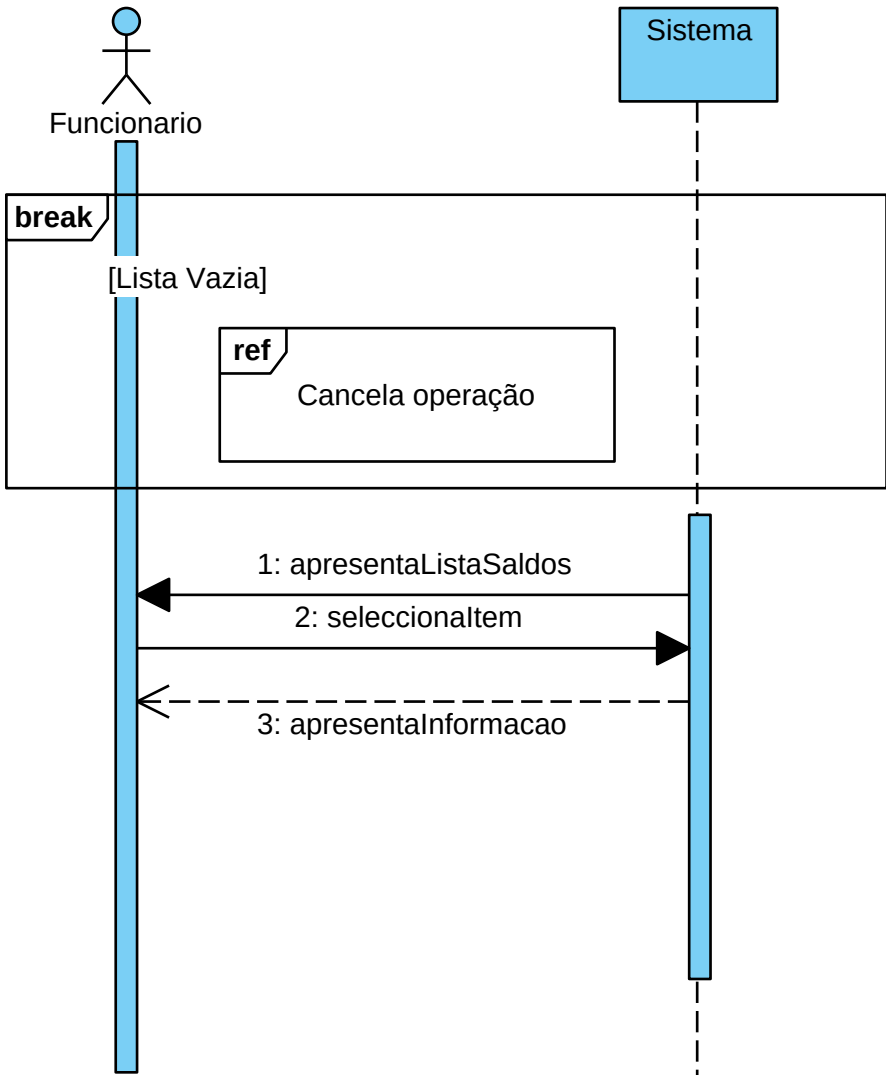
apresentaLista(list listaM) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	2	
Asynchronous	false	

idMorador:=seleccionaltem() : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	3	
Asynchronous	false	

apresentaFicha(fichaMorador) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	6	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Sequence Diagram

Consultar Saldos passo1



Summary

Name	Documentation
 Funcionario	
 Sistema	
 Lista Vazia	
 Operand	
 Abandona Operação	

Details



Funcionario

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresentaListaSaldos : Message		
To	Name	Value
	End Model Element	Funcionario
Type	Message	
Sequence Number	1	
Asynchronous	false	

seleccionalItem : Message		
To	Name	Value
	End Model Element	Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresentaInformacao : Message		
To	Name	Value
	End Model Element	Funcionario
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Sistema

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresentaListaSaldos : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	1	
Asynchronous	false	

seleccionaltem : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresentaInformacao : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Lista Vazia

Name	Value
Interaction Operator	break

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Funcionario	
 Sistema	

Operand

Name	Value	
Guard	Name	Value
	Constraint	Lista Vazia

Children

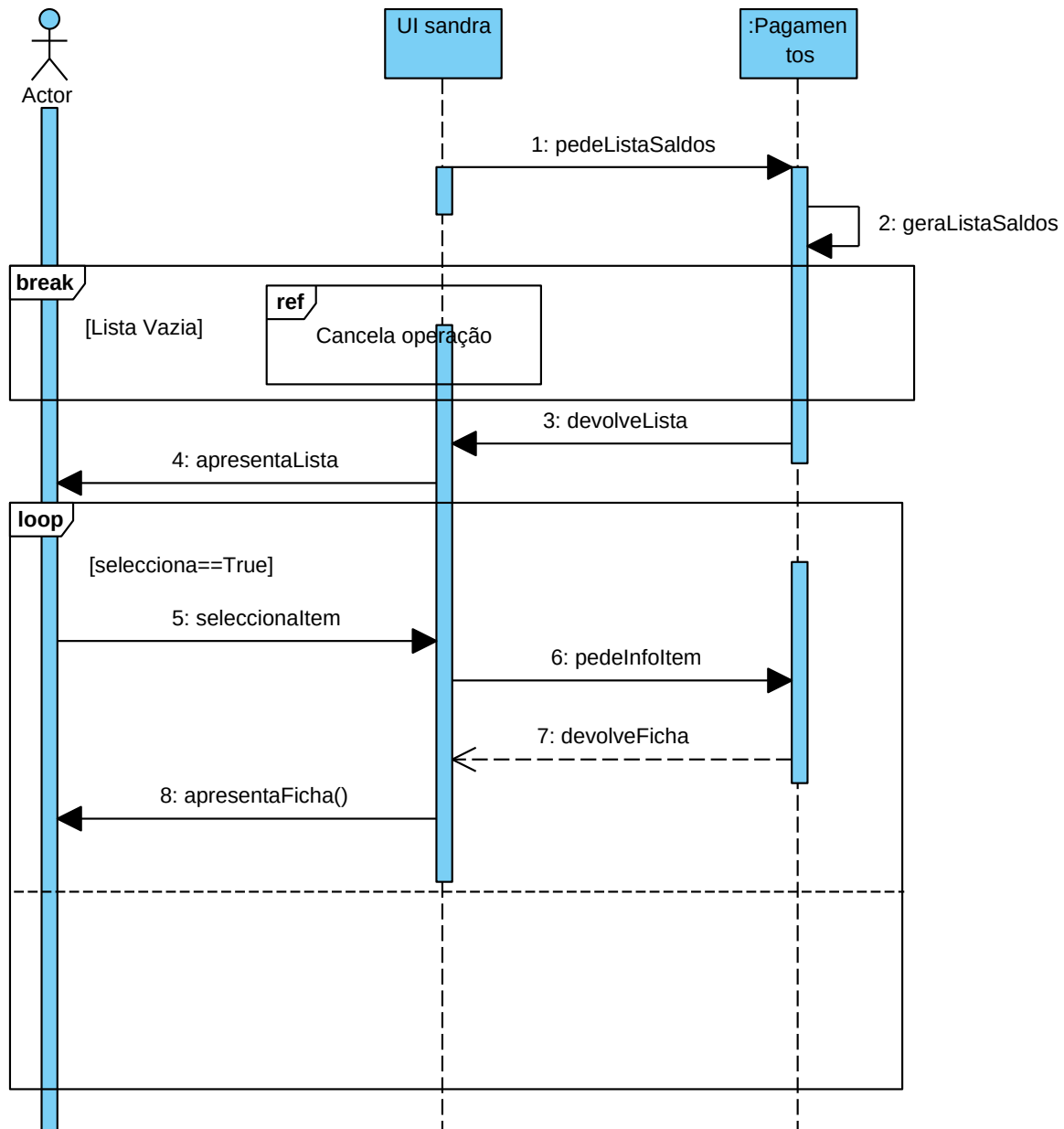
Name	Documentation
 Abandona Operação	

Abandona Operação

Name	Value
Refers To	 Cancela operação

Sequence Diagram

Consultar Saldos passo2



Summary

Name	Documentation
 Actor	
 UI sandra	
 :Pagamentos	
 Lista Vazia	
 Operand	
 InteractionUse	

 selecciona==True	
 Operand	
 Operand2	

Details

Actor

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresentaLista : Message		
To	Name	Value
	End Model Element	 Actor
Type	Message	
Sequence Number	4	
Asynchronous	false	

seleccionaItem : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	5	
Asynchronous	false	

apresentaFicha() : Message		
To	Name	Value
	End Model Element	 Actor
Type	Message	
Sequence Number	8	
Asynchronous	false	

UI sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

pedeListaSaldos : Message		
To	Name	Value
	End Model Element	 :Pagamentos
Type	Message	
Sequence Number	1	
Asynchronous	false	

devolveLista : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	3	
Asynchronous	false	

apresentaLista : Message		
To	Name	Value
	End Model Element	 Actor
Type	Message	
Sequence Number	4	
Asynchronous	false	

seleccionaltem : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	5	
Asynchronous	false	

pedeInfoItem : Message		
To	Name	Value
	End Model Element	 :Pagamentos
Type	Message	
Sequence Number	6	
Asynchronous	false	

devolveFicha : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	7	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

apresentaFicha() : Message		
To	Name	Value
	End Model Element	 Actor
Type	Message	
Sequence Number	8	
Asynchronous	false	

:Pagamentos

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

pedeListaSaldos : Message		
To	Name	Value
	End Model Element	 :Pagamentos
Type	Message	
Sequence Number	1	
Asynchronous	false	

geraListaSaldos : Message		
To	Name	Value
	End Model Element	 :Pagamentos
Type	Self Message	
Sequence Number	2	
Asynchronous	false	

geralListaSaldos : Message		
To	Name	Value
	End Model Element	 :Pagamentos
Type	Self Message	
Sequence Number	2	
Asynchronous	false	

devolveLista : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	3	
Asynchronous	false	

pedeInfoltem : Message		
To	Name	Value
	End Model Element	 :Pagamentos
Type	Message	
Sequence Number	6	
Asynchronous	false	

devolveFicha : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	7	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Lista Vazia

Name	Value
Interaction Operator	break

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Actor	
 UI sandra	
 :Pagamentos	



Operand

Name	Value	
Guard	Name	Value
	Constraint	Lista Vazia



InteractionUse

Name	Value
Refers To	 Cancela operação



selecciona==True

Name	Value
Interaction Operator	loop

Interaction Operands

Value
Operand
Operand2

Covered LifeLines

Name	Documentation
 Actor	
 UI sandra	
 :Pagamentos	



Operand

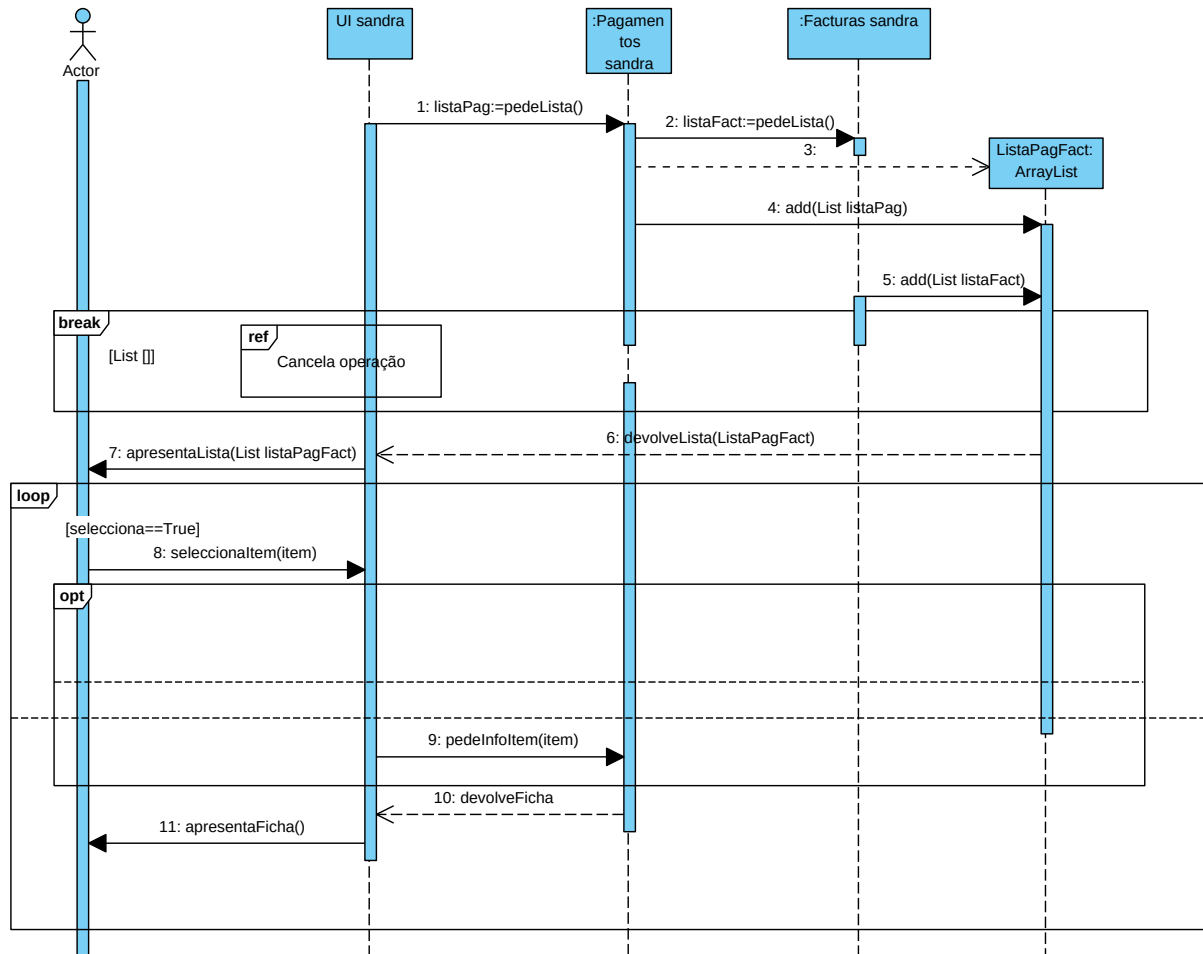
Name	Value	
Guard	Name	Value
	Constraint	selecciona==True



Operand2

Sequence Diagram

Consultar Saldos passo3



Summary

Name	Documentation
Actor	
UI sandra	
:Pagamentos sandra	
:Facturas sandra	
ListaPagFact:ArrayList	
List []	
InteractionUse	
Operand	
seleciona==True	
CombinedFragment	
Operand	
Operand	
Operand2	



Operand2

Details



Actor

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresentaLista(List listaPagFact) : Message		
To	Name	Value
	End Model Element	Actor
Type	Message	
Sequence Number	7	
Asynchronous	false	

seleccionaItem(item) : Message		
To	Name	Value
	End Model Element	UI sandra
Type	Message	
Sequence Number	8	
Asynchronous	false	

apresentaFicha() : Message		
To	Name	Value
	End Model Element	Actor
Type	Message	
Sequence Number	11	
Asynchronous	false	

UI sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

listaPag:=pedeLista() : Message		
To	Name	Value
	End Model Element	 :Pagamentos sandra
Type	Message	
Sequence Number	1	
Asynchronous	false	

devolveLista(ListaPagFact) : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	6	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

apresentaLista(List listaPagFact) : Message		
To	Name	Value
	End Model Element	 Actor
Type	Message	
Sequence Number	7	
Asynchronous	false	

seleccionaltem(item) : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	8	
Asynchronous	false	

pedeInfoItem(item) : Message		
To	Name	Value
	End Model Element	 :Pagamentos sandra
Type	Message	
Sequence Number	9	
Asynchronous	false	

devolveFicha : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	10	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

apresentaFicha() : Message		
To	Name	Value
	End Model Element	 Actor
Type	Message	
Sequence Number	11	
Asynchronous	false	



:Pagamentos sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

listaPag:=pedeLista() : Message		
To	Name	Value
	End Model Element	 :Pagamentos sandra
Type	Message	
Sequence Number	1	
Asynchronous	false	

listaFact:=pedeLista() : Message		
To	Name	Value
	End Model Element	 :Facturas sandra
Type	Message	
Sequence Number	2	
Asynchronous	false	

Unnamed Message		
To	Name	Value
	End Model Element	 ListaPagFact:ArrayList
Type	Create Message	
Sequence Number	3	
Asynchronous	false	

add(List listaPag) : Message		
To	Name	Value
	End Model Element	 ListaPagFact:ArrayList
Type	Message	
Sequence Number	4	
Asynchronous	false	

pedeInfoItem(item) : Message		
To	Name	Value
	End Model Element	 :Pagamentos sandra
Type	Message	
Sequence Number	9	
Asynchronous	false	

devolveFicha : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	10	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

:Facturas sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

listaFact:=pedeLista() : Message		
To	Name	Value
	End Model Element	 :Facturas sandra
Type	Message	
Sequence Number	2	
Asynchronous	false	

add(List listaFact) : Message		
To	Name	Value
	End Model Element	 ListaPagFact:ArrayList
Type	Message	
Sequence Number	5	
Asynchronous	false	

ListaPagFact:ArrayList

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

Unnamed Message		
To	Name	Value
	End Model Element	 ListaPagFact:ArrayList
Type	Create Message	
Sequence Number	3	
Asynchronous	false	

add(List listaPag) : Message		
To	Name	Value
	End Model Element	 ListaPagFact:ArrayList
Type	Message	
Sequence Number	4	
Asynchronous	false	

add(List listaFact) : Message		
To	Name	Value
	End Model Element	 ListaPagFact:ArrayList
Type	Message	
Sequence Number	5	
Asynchronous	false	

devolveLista(ListaPagFact) : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	6	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

List []

Name	Value
Interaction Operator	break

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Actor	
 UI sandra	
 :Pagamentos sandra	
 :Facturas sandra	
 ListaPagFact:ArrayList	

InteractionUse

Name	Value
Refers To	 Cancela operação

Operand

Name	Value	
Guard	Name	Value
	Constraint	List []

selecciona==True

Name	Value
Interaction Operator	loop

Interaction Operands

Value
Operand
Operand2

Covered LifeLines

Name	Documentation
 Actor	
 UI sandra	
 :Pagamentos sandra	
 :Facturas sandra	
 ListaPagFact:ArrayList	

CombinedFragment

Name	Value
Interaction Operator	opt

Interaction Operands

Value
Operand
Operand2

Covered LifeLines

Name	Documentation
 Actor	
 UI sandra	
 :Pagamentos sandra	
 :Facturas sandra	
 ListaPagFact:ArrayList	

Operand

Name	Value	
Guard	Name	Value
	Constraint	selecciona==True

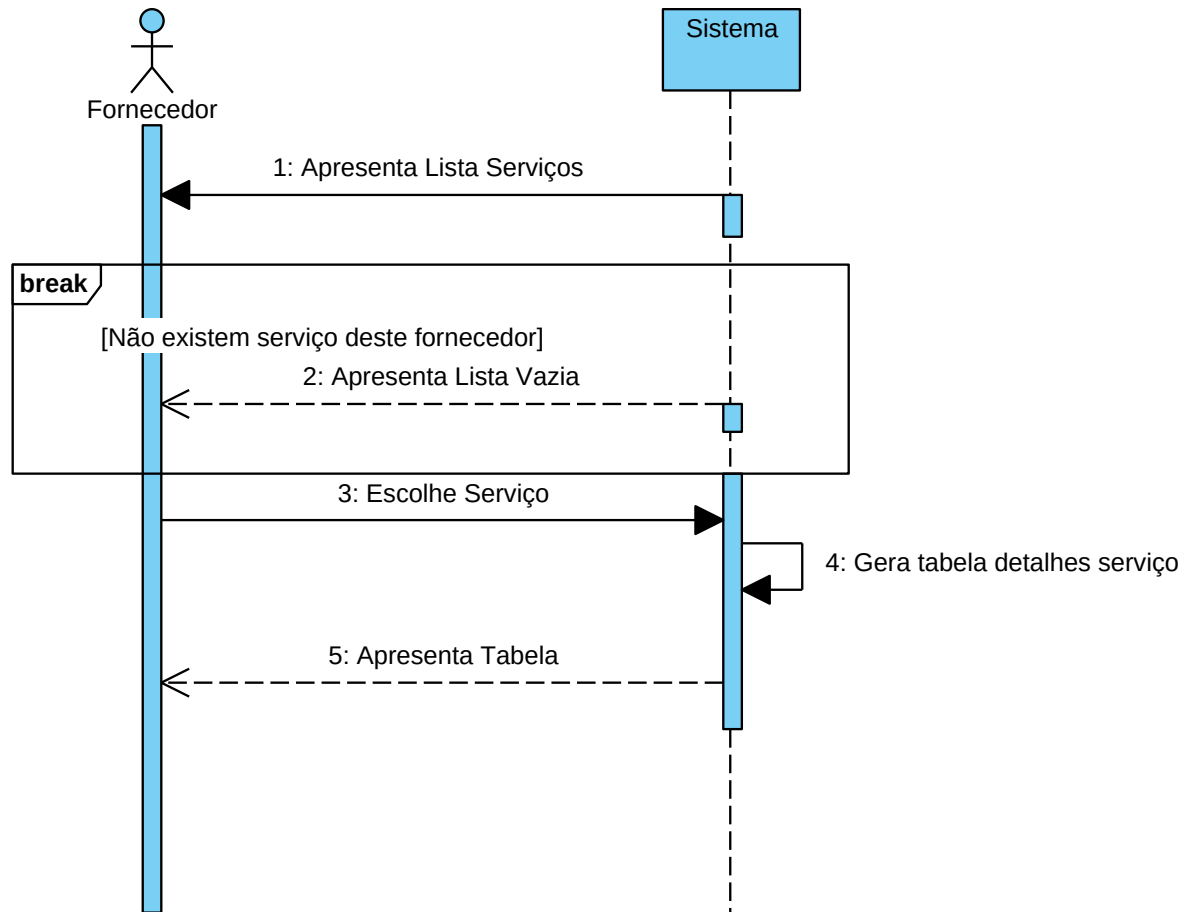
Operand

Operand2

Operand2

Sequence Diagram

Consultar Serviço - Passo1 - Diagrama de Sequencia de Sistema



Summary

Name	Documentation
 Sistema	
 Fornecedor	
 Não existem serviço deste fornecedor	
 Operand	

Details



Sistema

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

Apresenta Lista Serviços : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	1	
Asynchronous	false	

Apresenta Lista Vazia : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	2	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Escolhe Serviço : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	3	
Asynchronous	false	

Gera tabela detalhes serviço : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	4	
Asynchronous	false	

Gera tabela detalhes serviço : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Self Message	
Sequence Number	4	
Asynchronous	false	

Apresenta Tabela : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	5	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	



Fornecedor

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

Apresenta Lista Serviços : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	1	
Asynchronous	false	

Apresenta Lista Vazia : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	2	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Escolhe Serviço : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	3	
Asynchronous	false	

Apresenta Tabela : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	5	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Não existem serviço deste fornecedor

Name	Value
Interaction Operator	break

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Fornecedor	
 Sistema	

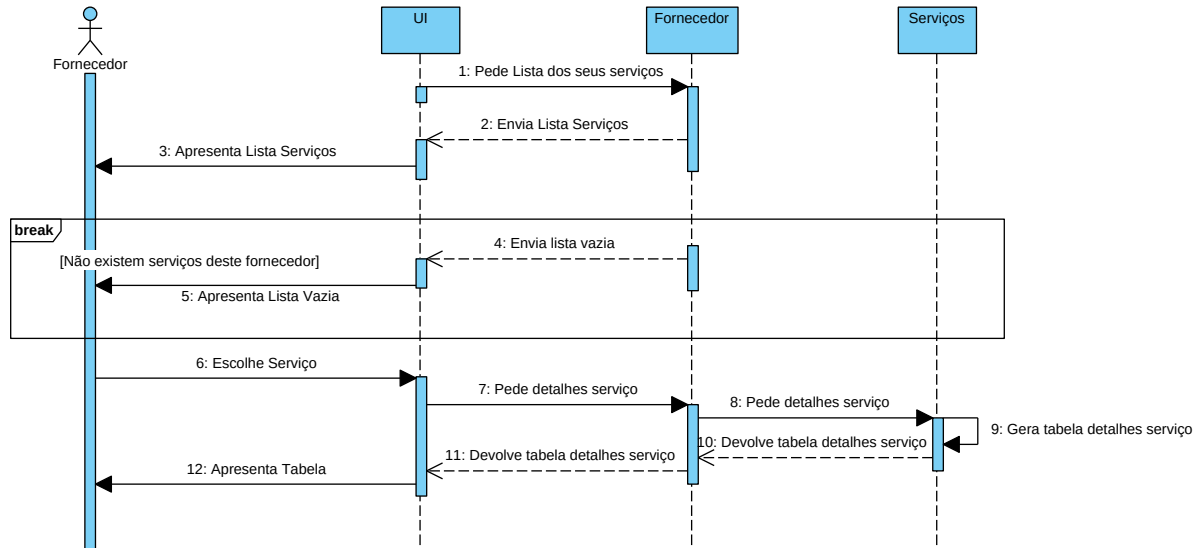


Operand

Name	Value	
	Name	Value
	Guard	
	Constraint	Não existem serviço deste fornecedor

Sequence Diagram

Consultar Serviço - Passo3 - Diagrama de sequencia com subsistemas



Summary

Name	Documentation
UI	
Fornecedor	
Fornecedor	
Serviços	
Não existem serviços deste fornecedor	
Operand	

Details

UI

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

Pede Lista dos seus serviços : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	1	
Asynchronous	false	

Envia Lista Serviços : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	2	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Apresenta Lista Serviços : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	3	
Asynchronous	false	

Envia lista vazia : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	4	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Apresenta Lista Vazia : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	5	
Action Type	Name	Value
	Name	Send
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Escolhe Serviço : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	6	
Asynchronous	false	

Pede detalhes serviço : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	7	
Asynchronous	false	

Devolve tabela detalhes serviço : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	11	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Apresenta Tabela : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	12	
Action Type	Name	Value
	Name	Send
	Iteration	false
	Asynchronous	false
Asynchronous	false	



Fornecedor

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

Apresenta Lista Serviços : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	3	
Asynchronous	false	

Apresenta Lista Vazia : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	5	
Action Type	Name	Value
	Name	Send
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Escolhe Serviço : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	6	
Asynchronous	false	

Apresenta Tabela : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	12	
Action Type	Name	Value
	Name	Send
	Iteration	false
	Asynchronous	false
Asynchronous	false	



Fornecedor

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

Pede Lista dos seus serviços : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	1	
Asynchronous	false	

Envia Lista Serviços : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	2	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Envia lista vazia : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	4	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Pede detalhes serviço : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	7	
Asynchronous	false	

Pede detalhes serviço : Message		
To	Name	Value
	End Model Element	 Serviços
Type	Message	
Sequence Number	8	
Asynchronous	false	

Devolve tabela detalhes serviço : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	10	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Devolve tabela detalhes serviço : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	11	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	



Serviços

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

Pede detalhes serviço : Message		
To	Name	Value
	End Model Element	 Serviços
Type	Message	
Sequence Number	8	
Asynchronous	false	

Gera tabela detalhes serviço : Message		
To	Name	Value
	End Model Element	 Serviços
Type	Self Message	
Sequence Number	9	
Asynchronous	false	

Gera tabela detalhes serviço : Message		
To	Name	Value
	End Model Element	 Serviços
Type	Self Message	
Sequence Number	9	
Asynchronous	false	

Devolve tabela detalhes serviço : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	10	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Não existem serviços deste fornecedor

Name	Value
Interaction Operator	break

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Fornecedor	
 UI	
 Fornecedor	
 Serviços	

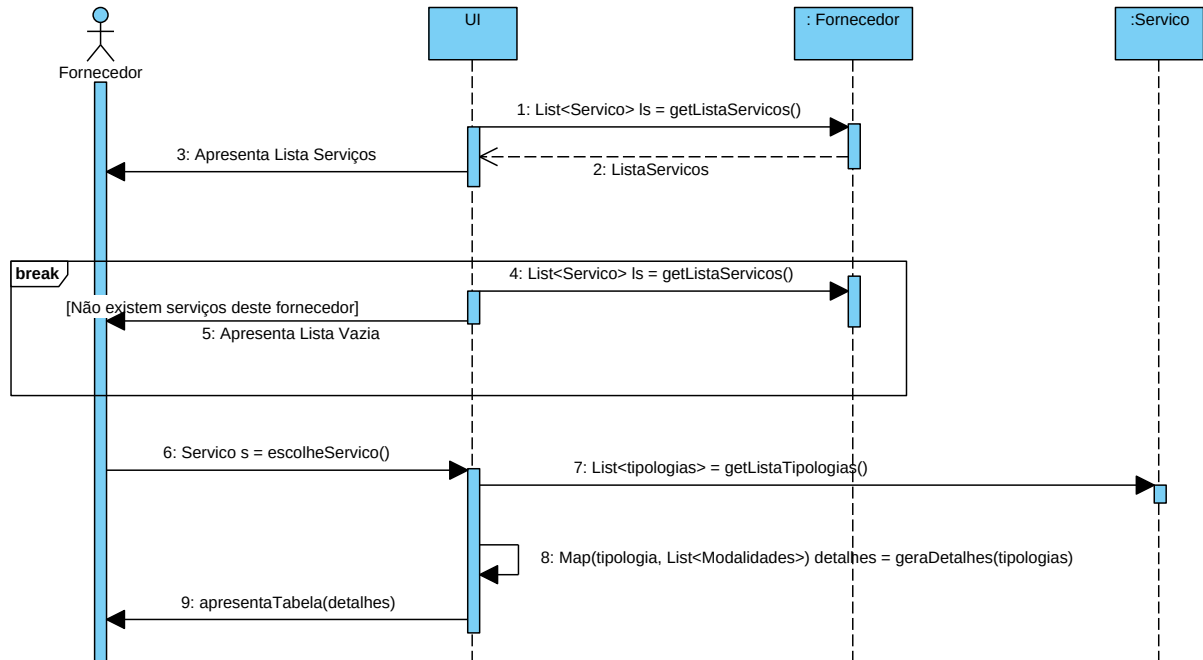


Operand

Name		Value	
Guard		Name	Value
	Constraint	Não existem serviços deste fornecedor	

Sequence Diagram

Consultar Serviço - Passo5 - Diagrama de sequencia de implementação



Summary

Name	Documentation
 Fornecedor	
 UI	
 : Fornecedor	
 :Servico	
 Operand	
 Não existem serviços deste fornecedor	

Details



Fornecedor

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

Apresenta Lista Serviços : Message		
To	Name	Value
	End Model Element	Fornecedor
Type	Message	
Sequence Number	3	
Asynchronous	false	

Apresenta Lista Vazia : Message		
To	Name	Value
	End Model Element	Fornecedor
Type	Message	
Sequence Number	5	
Action Type	Name	Value
	Name	Send
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Serviço s = escolheServiço() : Message		
To	Name	Value
	End Model Element	UI
Type	Message	
Sequence Number	6	
Asynchronous	false	

apresentaTabela(detahes) : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	9	
Action Type	Name	Value
	Name	Send
	Iteration	false
	Asynchronous	false
Asynchronous	false	



UI

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

List<Servico> ls = getListaServicos() : Message		
To	Name	Value
	End Model Element	 : Fornecedor
Type	Message	
Sequence Number	1	
Asynchronous	false	

ListaServicos : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	2	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Apresenta Lista Serviços : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	3	
Asynchronous	false	

List<Servico> ls = getListaServicos() : Message		
To	Name	Value
	End Model Element	 : Fornecedor
Type	Message	
Sequence Number	4	
Asynchronous	false	

Apresenta Lista Vazia : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	5	
Action Type	Name	Value
	Name	Send
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Servico s = escolheServico() : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	6	
Asynchronous	false	

List<tipologias> = getListaTipologias() : Message		
To	Name	Value
	End Model Element	 :Servico
Type	Message	
Sequence Number	7	
Asynchronous	false	

Map(tipologia, List<Modalidades>) detalhes = geraDetalhes(tipologias) : Message		
To	Name	Value
	End Model Element	 UI
Type	Self Message	
Sequence Number	8	
Asynchronous	false	

Map(tipologia, List<Modalidades>) detalhes = geraDetalhes(tipologias) : Message		
To	Name	Value
	End Model Element	 UI
Type	Self Message	
Sequence Number	8	
Asynchronous	false	

apresentaTabela(detalhes) : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	9	
Action Type	Name	Value
	Name	Send
	Iteration	false
	Asynchronous	false
Asynchronous	false	

: Fornecedor

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

List<Servico> ls = getListaServicos() : Message		
To	Name	Value
	End Model Element	 : Fornecedor
Type	Message	
Sequence Number	1	
Asynchronous	false	

ListaServicos : Message		
To	Name	Value
	End Model Element	 UI
Type	Message	
Sequence Number	2	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

List<Servico> ls = getListaServicos() : Message		
To	Name	Value
	End Model Element	 : Fornecedor
Type	Message	
Sequence Number	4	
Asynchronous	false	

:Servico

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

List<tipologias> = getListaTipologias() : Message		
To	Name	Value
	End Model Element	 :Servico
Type	Message	
Sequence Number	7	
Asynchronous	false	

Operand

Name	Value	
Guard	Name	Value
	Constraint	Não existem serviços deste fornecedor



Não existem serviços deste fornecedor

Name	Value
Interaction Operator	break

Interaction Operands

Value
Operand

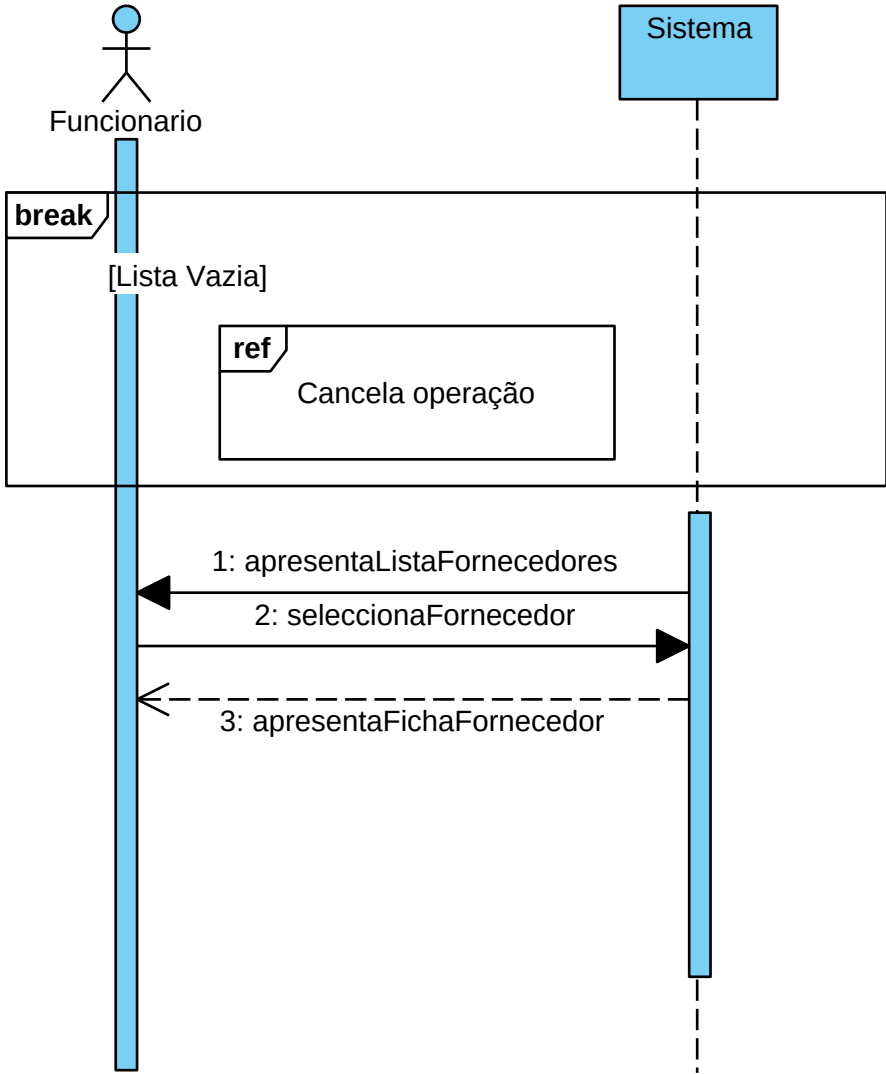
Covered LifeLines

Name	Documentation
 Fornecedor	
 UI	
 : Fornecedor	

Sequence Diagram

Consultar Serviços e Fornecedores

passo1



Summary

Name	Documentation
 Funcionario	
 Sistema	
 Lista Vazia	
 Operand	
 Abandona Operação	

Details



Funcionario

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresentaListaFornecedores : Message		
To	Name	Value
	End Model Element	Funcionario
Type	Message	
Sequence Number	1	
Asynchronous	false	

selecionaFornecedor : Message		
To	Name	Value
	End Model Element	Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresentaFichaFornecedor : Message		
To	Name	Value
	End Model Element	Funcionario
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Sistema

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresentaListaFornecedores : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	1	
Asynchronous	false	

selecionaFornecedor : Message		
To	Name	Value
	End Model Element	 Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresentaFichaFornecedor : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Lista Vazia

Name	Value
Interaction Operator	break

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Funcionario	
 Sistema	

Operand

Name	Value	
Guard	Name	Value
	Constraint	Lista Vazia

Children

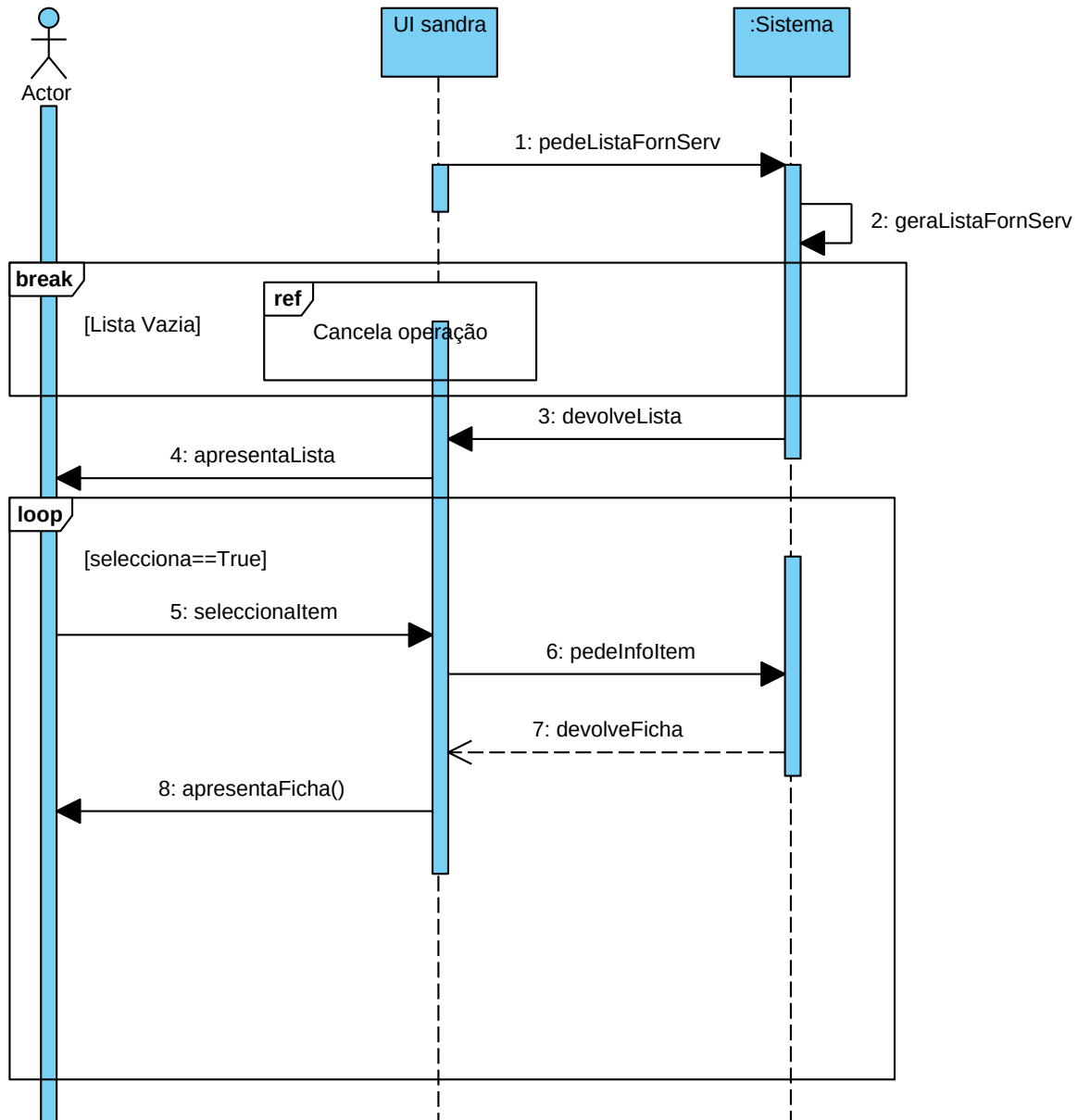
Name	Documentation
 Abandona Operação	

Abandona Operação

Name	Value
Refers To	 Cancela operação

Sequence Diagram

Consultar Serviços e Fornecedores passo2



Summary

Name	Documentation
 UI sandra	
 :Sistema	
 Actor	
 Lista Vazia	
 Operand	

 InteractionUse	
 selecciona==True	
 Operand	

Details

UI sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

pedeListaFornServ : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	1	
Asynchronous	false	

devolveLista : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	3	
Asynchronous	false	

apresentaLista : Message		
To	Name	Value
	End Model Element	 Actor
Type	Message	
Sequence Number	4	
Asynchronous	false	

seleccionaltem : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	5	
Asynchronous	false	

pedeInfoItem : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	6	
Asynchronous	false	

devolveFicha : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	7	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

apresentaFicha() : Message		
To	Name	Value
	End Model Element	 Actor
Type	Message	
Sequence Number	8	
Asynchronous	false	



:Sistema

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

pedeListaFornServ : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	1	
Asynchronous	false	

geralListaFornServ : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Self Message	
Sequence Number	2	
Asynchronous	false	

geralListaFornServ : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Self Message	
Sequence Number	2	
Asynchronous	false	

devolveLista : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	3	
Asynchronous	false	

pedelInfoItem : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	6	
Asynchronous	false	

devolveFicha : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	7	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Actor

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresentaLista : Message		
To	Name	Value
	End Model Element	 Actor
Type	Message	
Sequence Number	4	
Asynchronous	false	

seleccionalItem : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	5	
Asynchronous	false	

apresentaFicha() : Message		
To	Name	Value
	End Model Element	 Actor
Type	Message	
Sequence Number	8	
Asynchronous	false	

Lista Vazia

Name	Value
Interaction Operator	break

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Actor	
 UI sandra	
 :Sistema	



Operand

Name	Value	
Guard	Name	Value
	Constraint	Lista Vazia



InteractionUse

Name	Value
Refers To	 Cancela operação



selecciona==True

Name	Value
Interaction Operator	loop

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Actor	
 UI sandra	
 :Sistema	

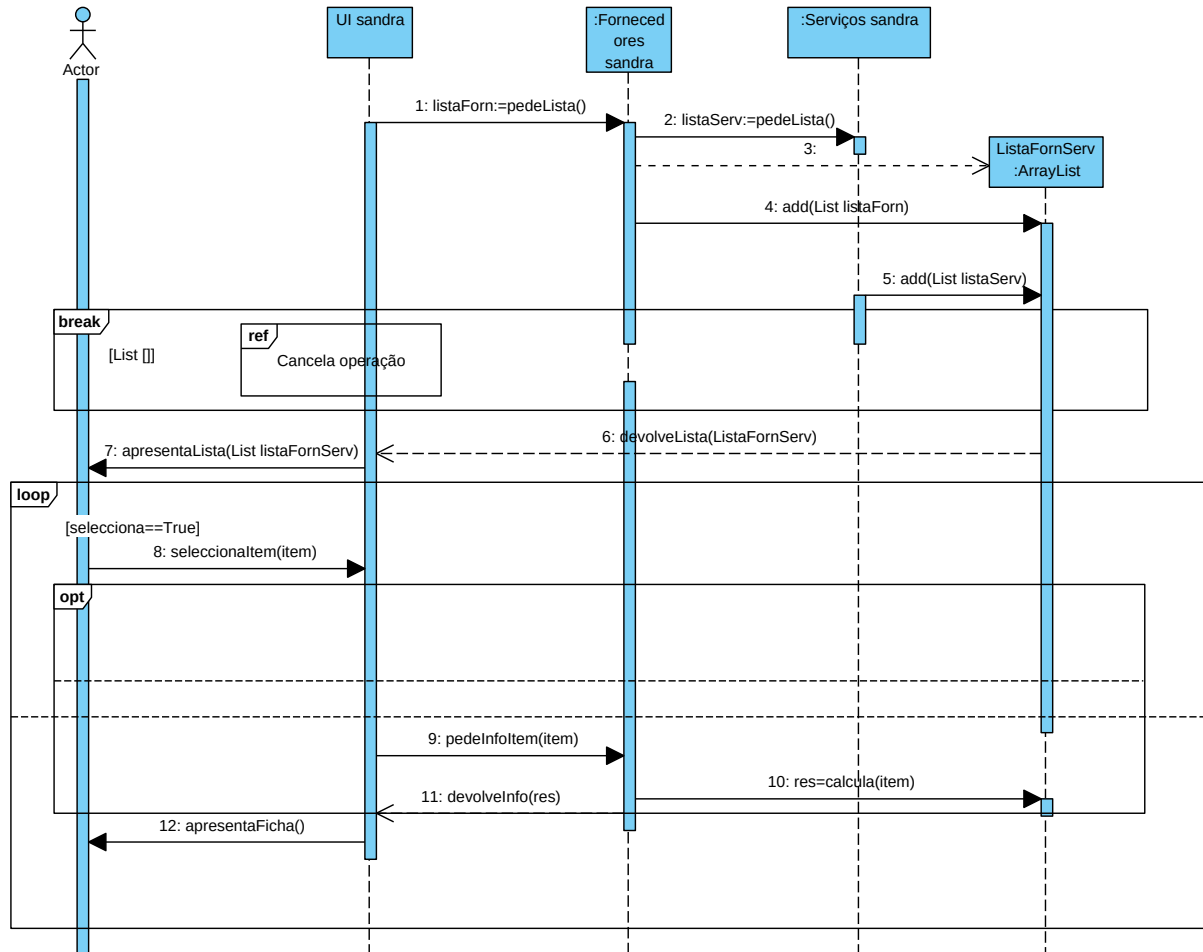


Operand

Name	Value	
Guard	Name	Value
	Constraint	selecciona==True

Sequence Diagram

Consultar Serviços e Fornecedores passo3



Summary

Name	Documentation
Actor	
UI sandra	
:Fornecedores sandra	
:Serviços sandra	
ListaFornServ:ArrayList	
List []	
Operand	
InteractionUse	
CombinedFragment	
Operand	
Operand2	

 selecciona==True	
 Operand	
 Operand2	

Details



Actor

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresentaLista(List listaFornServ) : Message		
To	Name	Value
	End Model Element	 Actor
Type	Message	
Sequence Number	7	
Asynchronous	false	

seleccionaItem(item) : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	8	
Asynchronous	false	

apresentaFicha() : Message		
To	Name	Value
	End Model Element	 Actor
Type	Message	
Sequence Number	12	
Asynchronous	false	

UI sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

listaForn:=pedeLista() : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Message	
Sequence Number	1	
Asynchronous	false	

devolveLista(ListaFornServ) : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	6	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

apresentaLista(List listaFornServ) : Message		
To	Name	Value
	End Model Element	 Actor
Type	Message	
Sequence Number	7	
Asynchronous	false	

seleccionaltem(item) : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	8	
Asynchronous	false	

pedeInfoItem(item) : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Message	
Sequence Number	9	
Asynchronous	false	

devolveInfo(res) : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	11	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

apresentaFicha() : Message		
To	Name	Value
	End Model Element	 Actor
Type	Message	
Sequence Number	12	
Asynchronous	false	

:Fornecedores sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

listaForn:=pedeLista() : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Message	
Sequence Number	1	
Asynchronous	false	

listaServ:=pedeLista() : Message		
To	Name	Value
	End Model Element	 :Serviços sandra
Type	Message	
Sequence Number	2	
Asynchronous	false	

Unnamed Message		
To	Name	Value
	End Model Element	 ListaFornServ:ArrayList
Type	Create Message	
Sequence Number	3	
Asynchronous	false	

add(List listaForn) : Message		
To	Name	Value
	End Model Element	 ListaFornServ:ArrayList
Type	Message	
Sequence Number	4	
Asynchronous	false	

pedeInfoltem(item) : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Message	
Sequence Number	9	
Asynchronous	false	

res=calcula(item) : Message		
To	Name	Value
	End Model Element	 ListaFornServ:ArrayList
Type	Message	
Sequence Number	10	
Asynchronous	false	

devolveInfo(res) : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	11	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

:Serviços sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

listaServ:=pedeLista() : Message		
To	Name	Value
	End Model Element	 :Serviços sandra
Type	Message	
Sequence Number	2	
Asynchronous	false	

add(List listaServ) : Message		
To	Name	Value
	End Model Element	 ListaFornServ:ArrayList
Type	Message	
Sequence Number	5	
Asynchronous	false	

ListaFornServ:ArrayList

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

Unnamed Message		
To	Name	Value
	End Model Element	 ListaFornServ:ArrayList
Type	Create Message	
Sequence Number	3	
Asynchronous	false	

add(List listaForn) : Message		
To	Name	Value
	End Model Element	 ListaFornServ:ArrayList
Type	Message	
Sequence Number	4	
Asynchronous	false	

add(List listaServ) : Message		
To	Name	Value
	End Model Element	 ListaFornServ:ArrayList
Type	Message	
Sequence Number	5	
Asynchronous	false	

devolveLista(ListaFornServ) : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	6	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

res=calcula(item) : Message		
To	Name	Value
	End Model Element	 ListaFornServ:ArrayList
Type	Message	
Sequence Number	10	
Asynchronous	false	

List []

Name	Value
Interaction Operator	break

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Actor	
 UI sandra	
 :Fornecedores sandra	
 :Serviços sandra	
 ListaFornServ:ArrayList	

Operand

Name	Value	
Guard	Name	Value
	Constraint	List []

InteractionUse

Name	Value
Refers To	 Cancela operação

CombinedFragment

Name	Value
Interaction Operator	opt

Interaction Operands

Value
Operand
Operand2

Covered LifeLines

Name	Documentation
 Actor	
 UI sandra	
 :Fornecedores sandra	
 :Serviços sandra	
 ListaFornServ:ArrayList	

Operand

Operand2

selecciona==True

Name	Value
Interaction Operator	loop

Interaction Operands

Value
Operand
Operand2

Covered LifeLines

Name	Documentation
 Actor	
 UI sandra	
 :Fornecedores sandra	
 :Serviços sandra	
 ListaFornServ:ArrayList	

Operand

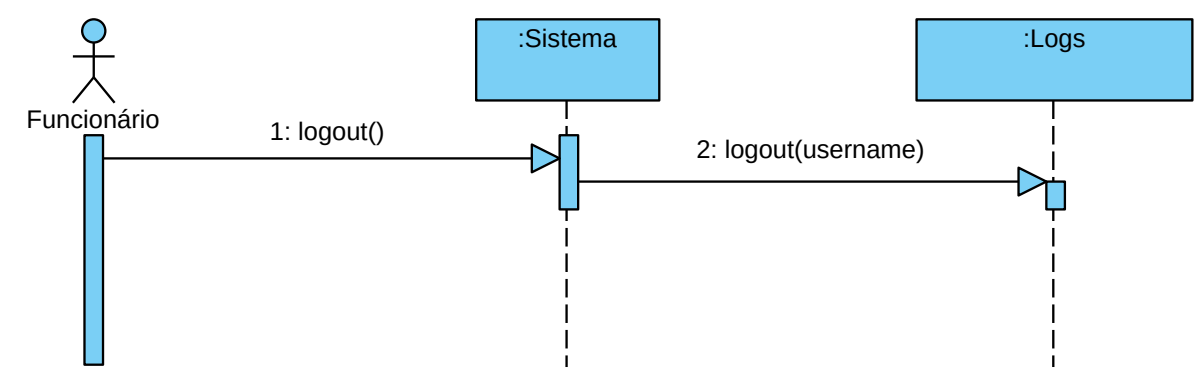
Name	Value	
Guard	Name	Value
	Constraint	selecciona==True



Operand2

Sequence Diagram

Encerrar Sessão



Summary

Name	Documentation
 Funcionário	
 :Sistema	
 :Logs	

Details

 Funcionário

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false
Referenced Actor	 Funcionário2

Relationships

logout() : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	1	
Asynchronous	false	

:Sistema

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

logout() : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	1	
Asynchronous	false	

logout(username) : Message		
To	Name	Value
	End Model Element	 :Logs
Type	Message	
Sequence Number	2	
Asynchronous	false	

:Logs

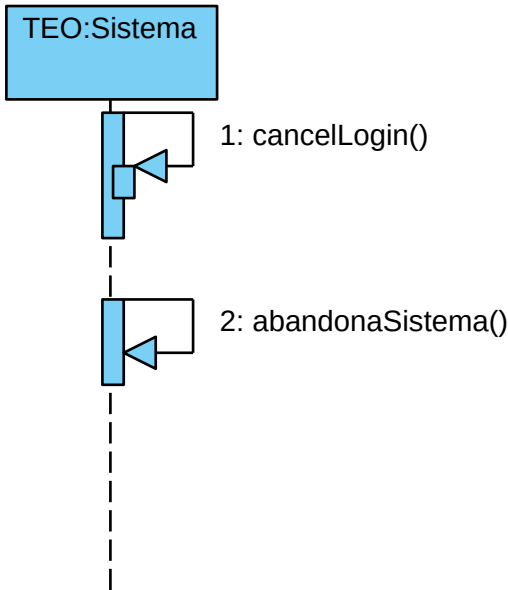
Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

logout(username) : Message		
To	Name	Value
	End Model Element	 :Logs
Type	Message	
Sequence Number	2	
Asynchronous	false	

Sequence Diagram

FalhaNoLogin



Summary

Name	Documentation
 TEO:Sistema	

Details

 TEO:Sistema

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

cancelLogin() : Message		
To	Name	Value
	End Model Element	 TEO:Sistema
Type	Recursive Message	
Sequence Number	1	
Asynchronous	false	

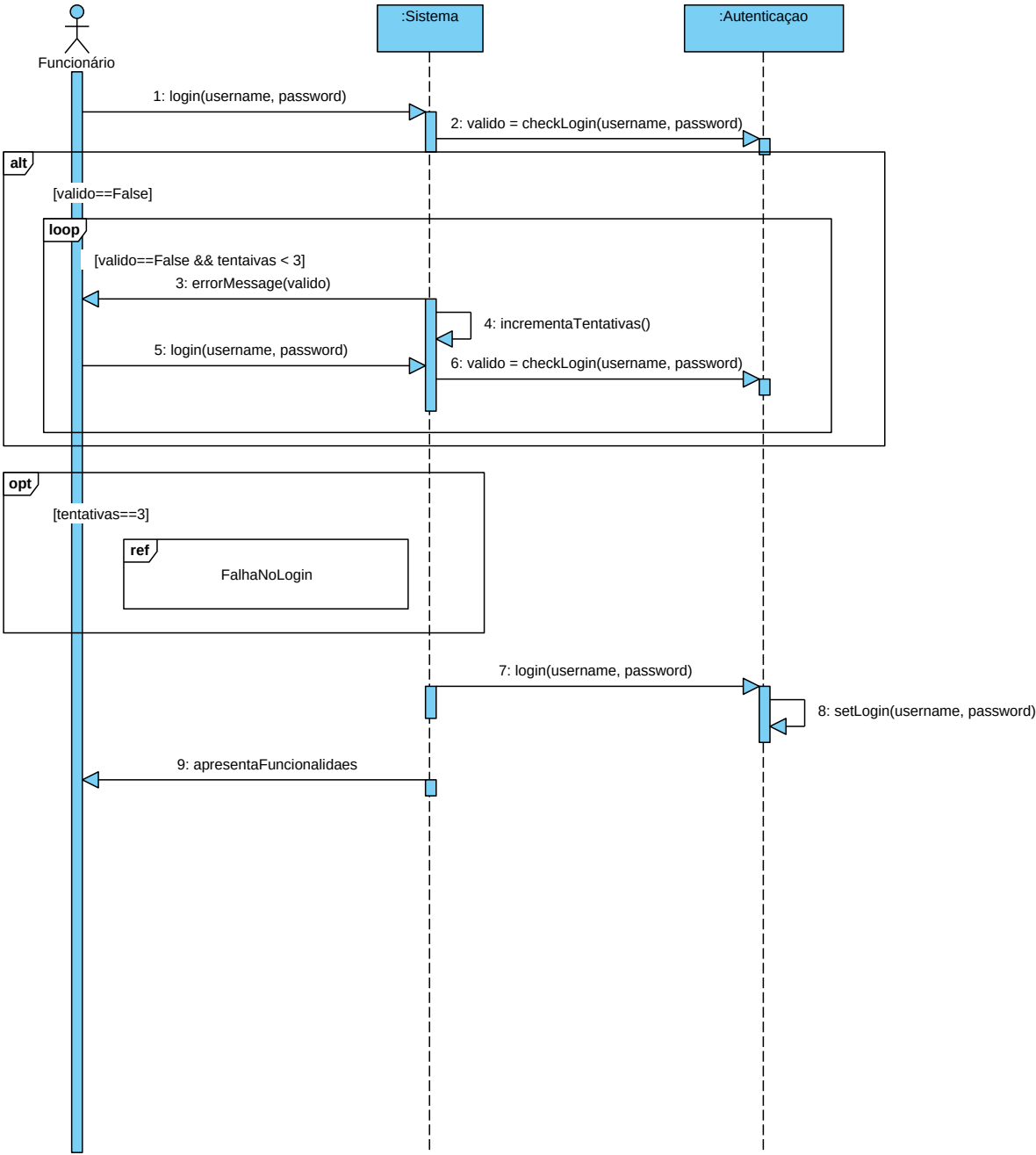
cancelLogin() : Message		
To	Name	Value
	End Model Element	 TEO:Sistema
Type	Recursive Message	
Sequence Number	1	
Asynchronous	false	

abandonaSistema() : Message		
To	Name	Value
	End Model Element	 TEO:Sistema
Type	Self Message	
Sequence Number	2	
Asynchronous	false	

abandonaSistema() : Message		
To	Name	Value
	End Model Element	 TEO:Sistema
Type	Self Message	
Sequence Number	2	
Asynchronous	false	

Sequence Diagram

Iniciar Sessão



Summary

Name	Documentation
 Funcionário	
 :Sistema	
 :Autenticação	
 tentativas==3	
 InteractionOperand	

 InteractionUse2	
 valido==False	
 InteractionOperand	
 valido==False && tentativas < 3	
 InteractionOperand	

Details



Funcionário

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false
Referenced Actor	 Funcionário2

Relationships

login(username, password) : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	1	
Action Type	Name	Value
	Name	Call
	Iteration	false
	Asynchronous	false
	Operation Type	0
Asynchronous	false	

errorMessage(valido) : Message		
To	Name	Value
	End Model Element	 Funcionário
Type	Message	
Sequence Number	3	
Asynchronous	false	

login(username, password) : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	5	
Asynchronous	false	

apresentaFuncionalidaes : Message		
To	Name	Value
	End Model Element	 Funcionário
Type	Message	
Sequence Number	9	
Asynchronous	false	



:Sistema

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

login(username, password) : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	1	
Action Type	Name	Value
	Name	Call
	Iteration	false
	Asynchronous	false
	Operation Type	0
Asynchronous	false	

valido = checkLogin(username, password) : Message		
To	Name	Value
	End Model Element	 :Autenticação
Type	Message	
Sequence Number	2	
Asynchronous	false	

errorMessage(valido) : Message		
To	Name	Value
	End Model Element	 Funcionário
Type	Message	
Sequence Number	3	
Asynchronous	false	

incrementaTentativas() : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Self Message	
Sequence Number	4	
Asynchronous	false	

incrementaTentativas() : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Self Message	
Sequence Number	4	
Asynchronous	false	

login(username, password) : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	5	
Asynchronous	false	

valido = checkLogin(username, password) : Message		
To	Name	Value
	End Model Element	 :Autenticação
Type	Message	
Sequence Number	6	
Asynchronous	false	

login(username, password) : Message		
To	Name	Value
	End Model Element	 :Autenticação
Type	Message	
Sequence Number	7	
Asynchronous	false	

apresentaFuncionalidaes : Message		
To	Name	Value
	End Model Element	 Funcionário
Type	Message	
Sequence Number	9	
Asynchronous	false	



:Autenticação

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

valido = checkLogin(username, password) : Message		
To	Name	Value
	End Model Element	 :Autenticação
Type	Message	
Sequence Number	2	
Asynchronous	false	

valido = checkLogin(username, password) : Message		
To	Name	Value
	End Model Element	 :Autenticação
Type	Message	
Sequence Number	6	
Asynchronous	false	

login(username, password) : Message		
To	Name	Value
	End Model Element	 :Autenticação
Type	Message	
Sequence Number	7	
Asynchronous	false	

setLogin(username, password) : Message		
To	Name	Value
	End Model Element	 :Autenticação
Type	Self Message	
Sequence Number	8	
Asynchronous	false	

setLogin(username, password) : Message		
To	Name	Value
	End Model Element	 :Autenticação
Type	Self Message	
Sequence Number	8	
Asynchronous	false	

tentativas==3

Name	Value
Interaction Operator	opt

Interaction Operands

Value
InteractionOperand

Covered LifeLines

Name	Documentation
 Funcionário	
 :Sistema	

InteractionOperand

Name	Value	
Guard	Name	Value
	Constraint	tentativas==3

Children

Name	Documentation
 FalhaNoLogin	
 InteractionUse2	

InteractionUse2

Name	Value
Refers To	 FalhaNoLogin

valido==False

Name	Value
Interaction Operator	alt

Interaction Operands

Value
InteractionOperand

Covered LifeLines

Name	Documentation
 Funcionário	
 :Sistema	
 :Autenticação	

InteractionOperand

Name	Value	
Guard	Name	Value
	Constraint	valido==False

Children

Name	Documentation
 valido==False && tentativas < 3	

valido==False && tentativas < 3

Name	Value
Interaction Operator	loop

Interaction Operands

Value
InteractionOperand

Covered LifeLines

Name	Documentation
 Funcionário	
 :Sistema	
 :Autenticação	

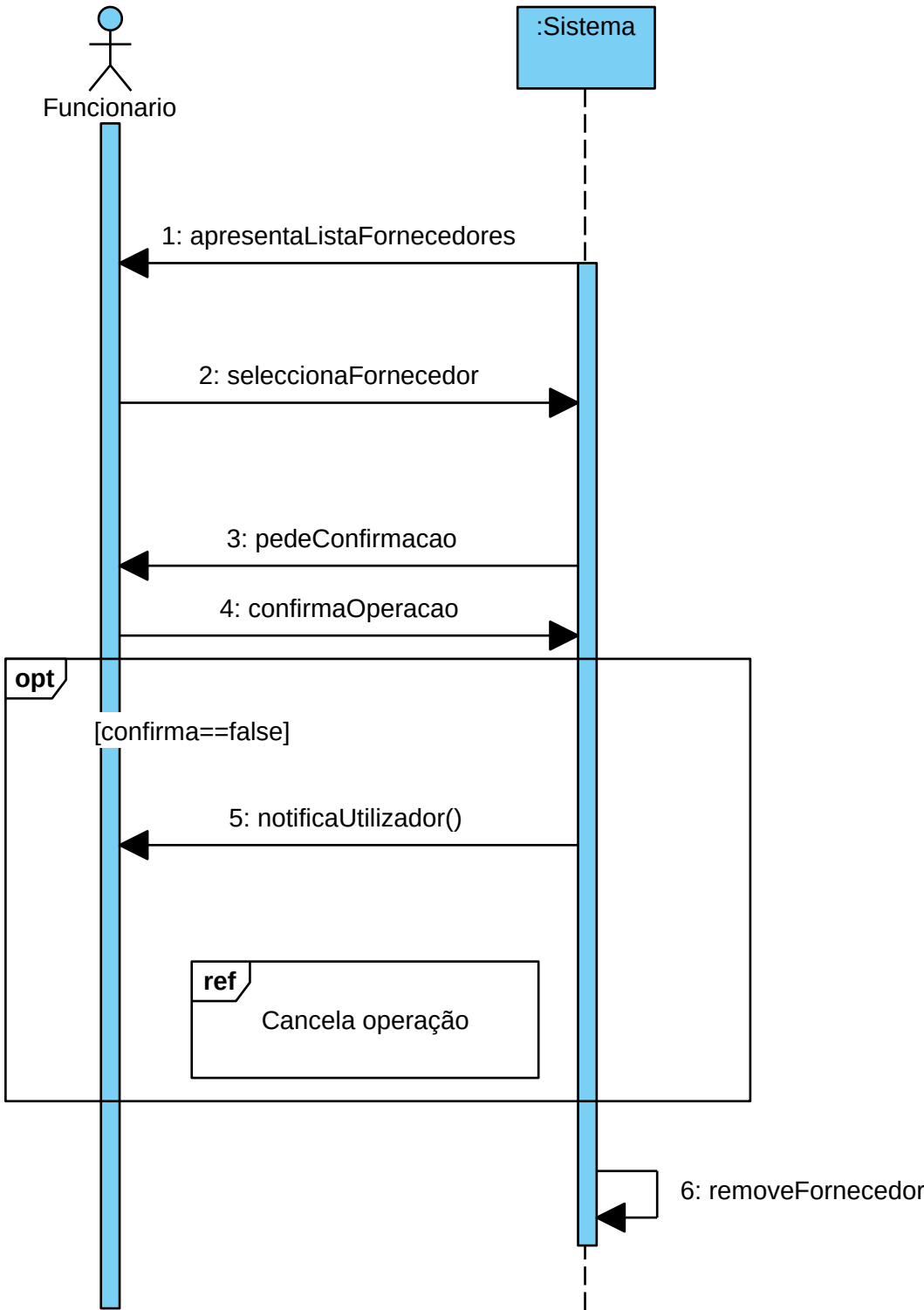


InteractionOperand

Name	Value	
	Name	Value
	Guard	
	Constraint	valido==False && tentativas < 3

Sequence Diagram

Remover Fornecedor passo1



Summary

Name	Documentation
 Funcionario	

 :Sistema	
 confirma==false	
 Operand	
 InteractionUse2	

Details



Funcionario

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresentaListaFornecedores : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	1	
Asynchronous	false	

selecionaFornecedor : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

pedeConfirmacao : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	3	
Asynchronous	false	

confirmaOperacao : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

notificaUtilizador() : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	5	
Asynchronous	false	

:Sistema

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresentaListaFornecedores : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	1	
Asynchronous	false	

seleccionaFornecedor : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

pedeConfirmacao : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	3	
Asynchronous	false	

confirmaOperacao : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

notificaUtilizador() : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	5	
Asynchronous	false	

removeFornecedor : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Self Message	
Sequence Number	6	
Asynchronous	false	

removeFornecedor : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Self Message	
Sequence Number	6	
Asynchronous	false	

 **confirma==false**

Name	Value
Interaction Operator	opt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Funcionario	
 :Sistema	



Operand

Name	Value	
Guard	Name	Value
	Constraint	confirma==false

Children

Name	Documentation
 InteractionUse2	

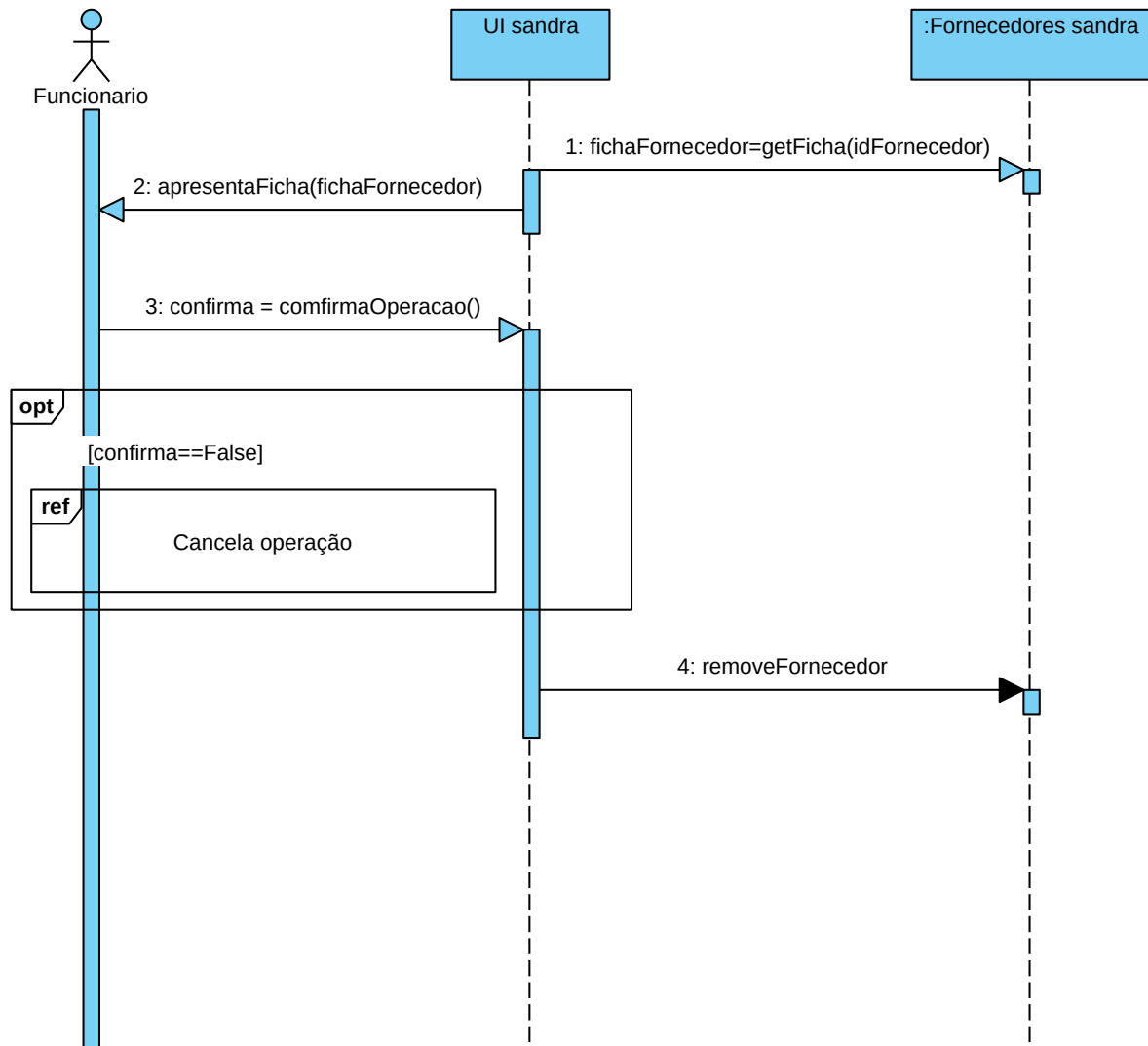


InteractionUse2

Name	Value
Refers To	 Cancela operação

Sequence Diagram

Remover Fornecedor passo2



Summary

Name	Documentation
 Funcionario	
 UI sandra	
 :Fornecedores sandra	
 confirma==False	
 InteractionOperand	
 InteractionUse	

Details



Funcionario

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false
Referenced Actor	Funcionario

Relationships

apresentaFicha(fichaFornecedor) : Message		
To	Name	Value
	End Model Element	Funcionario
Type	Message	
Sequence Number	2	
Asynchronous	false	

confirma = confirmaOperacao() : Message		
To	Name	Value
	End Model Element	UI sandra
Type	Message	
Sequence Number	3	
Asynchronous	false	



UI sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

fichaFornecedor=getFicha(idFornecedor) : Message		
To	Name	Value
	End Model Element	:Fornecedores sandra
Type	Message	
Sequence Number	1	
Asynchronous	false	

apresentaFicha(fichaFornecedor) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	2	
Asynchronous	false	

confirma = confirmaOperacao() : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	3	
Asynchronous	false	

removeFornecedor : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Message	
Sequence Number	4	
Asynchronous	false	

:Fornecedores sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

fichaFornecedor=getFicha(idFornecedor) : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Message	
Sequence Number	1	
Asynchronous	false	

removeFornecedor : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Message	
Sequence Number	4	
Asynchronous	false	

confirma==False

Name	Value
Interaction Operator	opt

Interaction Operands

Value
InteractionOperand

Covered LifeLines

Name	Documentation
 Funcionario	
 UI sandra	

InteractionOperand

Name	Value	
Guard	Name	Value
	Constraint	confirma==False

Children

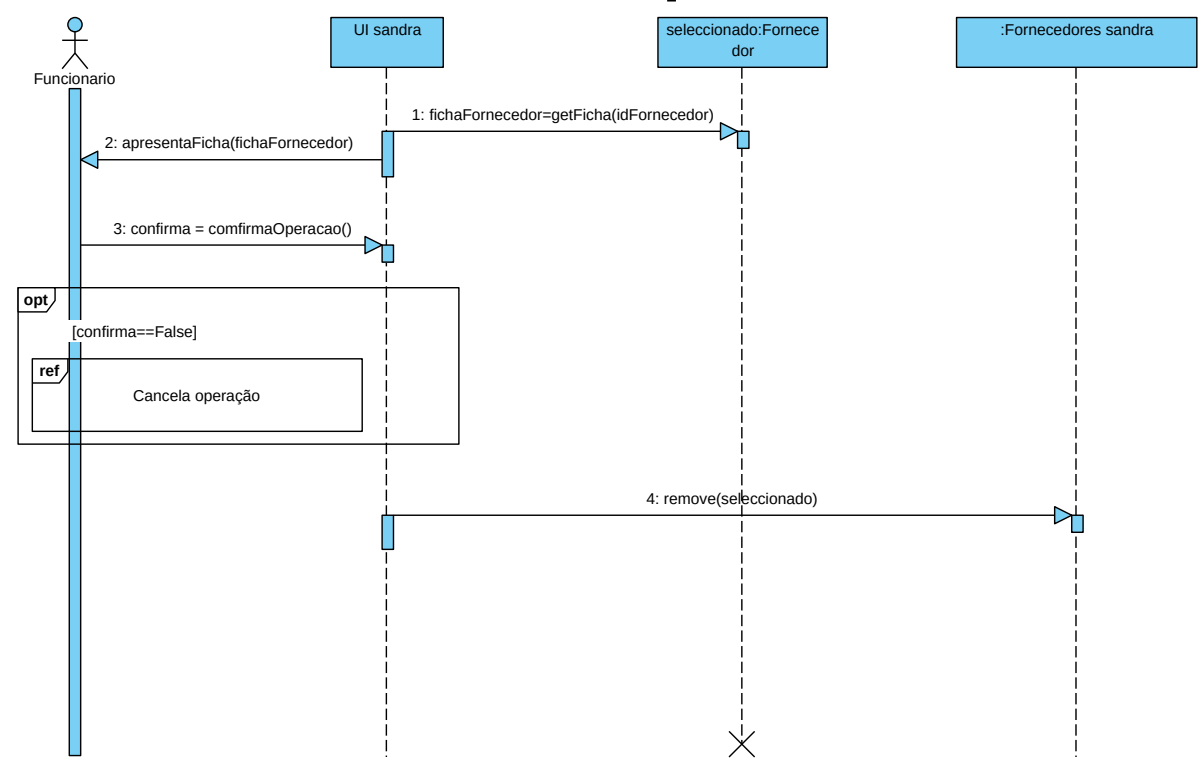
Name	Documentation
 InteractionUse	

InteractionUse

Name	Value
Refers To	 Cancela operação

Sequence Diagram

Remover Fornecedor passo3



Summary

Name	Documentation
 Funcionario	
 UI sandra	
 selecionado:Fornecedor	
 :Fornecedores sandra	
 confirma==False	
 InteractionOperand	
 InteractionUse	

Details



Funcionario

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false
Referenced Actor	Funcionario

Relationships

apresentaFicha(fichaFornecedor) : Message		
To	Name	Value
	End Model Element	Funcionario
Type	Message	
Sequence Number	2	
Asynchronous	false	

confirma = confirmaOperacao() : Message		
To	Name	Value
	End Model Element	UI sandra
Type	Message	
Sequence Number	3	
Asynchronous	false	



UI sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

fichaFornecedor=getFicha(idFornecedor) : Message		
To	Name	Value
	End Model Element	selecionado:Fornecedor
Type	Message	
Sequence Number	1	
Asynchronous	false	

apresentaFicha(fichaFornecedor) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	2	
Asynchronous	false	

confirma = confirmaOperacao() : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	3	
Asynchronous	false	

remove(selecionado) : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Message	
Sequence Number	4	
Asynchronous	false	

selecionado:Fornecedor

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	true
Multi Object	false

Relationships

fichaFornecedor=getFicha(idFornecedor) : Message		
To	Name	Value
	End Model Element	 selecionado:Fornecedor
Type	Message	
Sequence Number	1	
Asynchronous	false	

:Fornecedores sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

remove(seleccionado) : Message		
To	Name	Value
	End Model Element	 :Fornecedores sandra
Type	Message	
Sequence Number	4	
Asynchronous	false	

confirma==False

Name	Value
Interaction Operator	opt

Interaction Operands

Value
InteractionOperand

Covered LifeLines

Name	Documentation
 Funcionario	
 UI sandra	

InteractionOperand

Name	Value	
Guard	Name	Value
	Constraint	confirma==False

Children

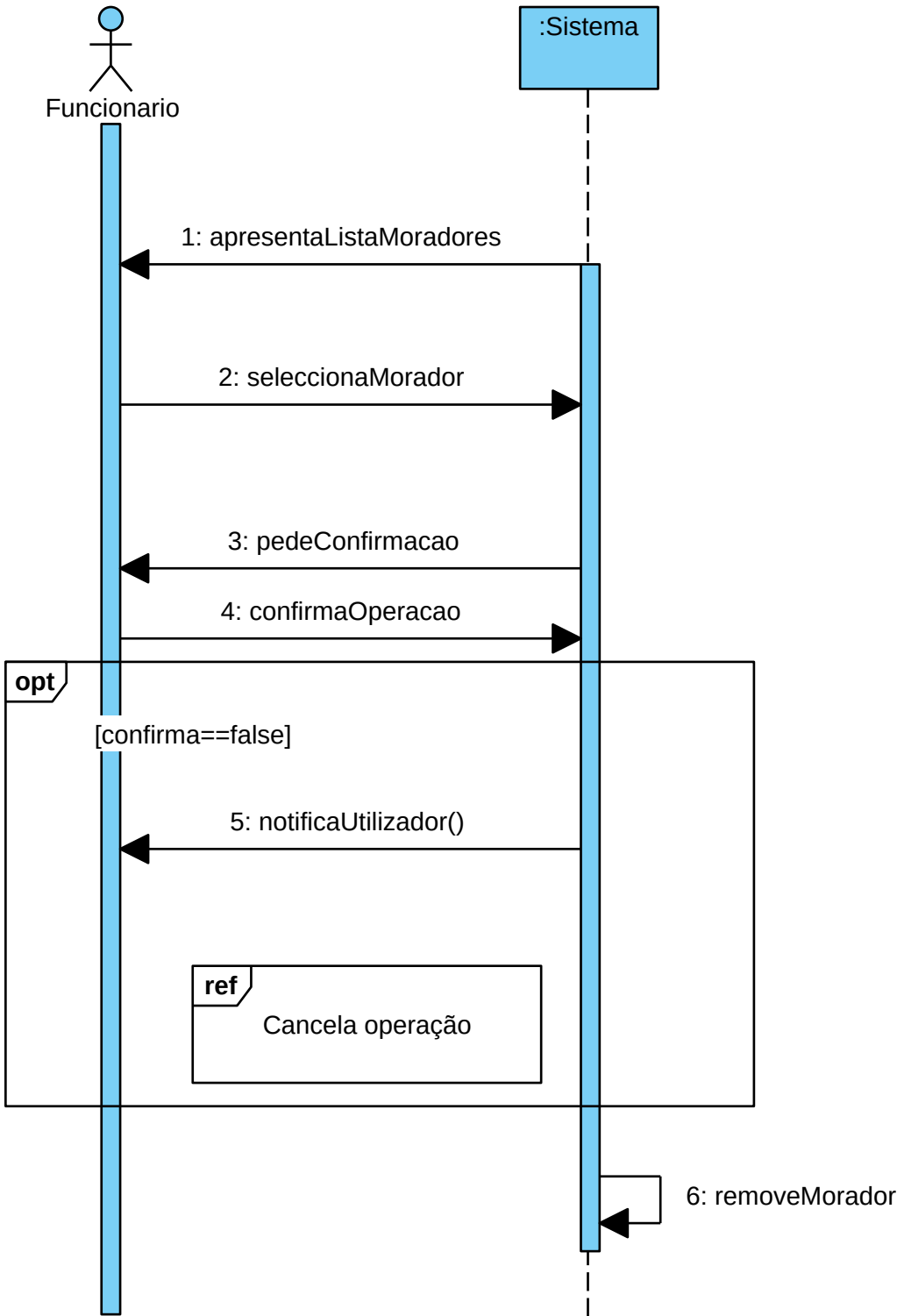
Name	Documentation
 InteractionUse	

InteractionUse

Name	Value
Refers To	 Cancela operação

Sequence Diagram

Remover Morador passo1



Summary

Name	Documentation
 :Sistema	

 Funcionario	
 confirma==false	
 Operand	
 InteractionUse2	

Details

:Sistema

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresentaListaMoradores : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	1	
Asynchronous	false	

selecionaMorador : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

pedeConfirmacao : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	3	
Asynchronous	false	

confirmaOperacao : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

notificaUtilizador() : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	5	
Asynchronous	false	

removeMorador : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Self Message	
Sequence Number	6	
Asynchronous	false	

removeMorador : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Self Message	
Sequence Number	6	
Asynchronous	false	

Funcionario

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresentaListaMoradores : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	1	
Asynchronous	false	

selecionaMorador : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

pedeConfirmacao : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	3	
Asynchronous	false	

confirmaOperacao : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

notificaUtilizador() : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	5	
Asynchronous	false	

 **confirma==false**

Name	Value
Interaction Operator	opt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Funcionario	
 :Sistema	



Operand

Name	Value	
Guard	Name	Value
	Constraint	confirma==false

Children

Name	Documentation
 InteractionUse2	

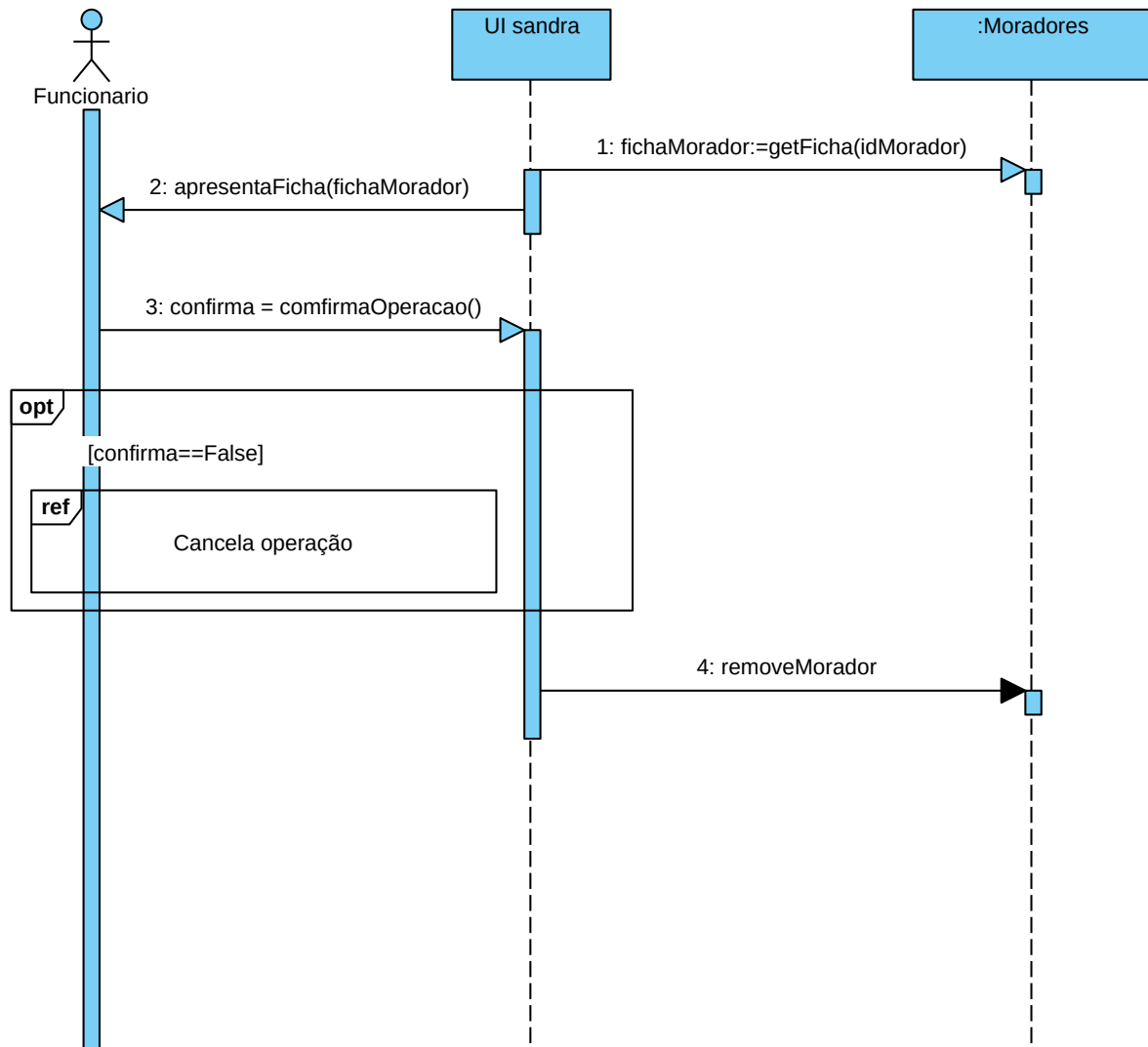


InteractionUse2

Name	Value
Refers To	 Cancela operação

Sequence Diagram

Remover Morador passo2



Summary

Name	Documentation
 Funcionario	
 UI sandra	
 :Moradores	
 confirma==False	
 InteractionOperand	
 InteractionUse	

Details



Funcionario

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false
Referenced Actor	Funcionario

Relationships

apresentaFicha(fichaMorador) : Message		
To	Name	Value
	End Model Element	Funcionario
Type	Message	
Sequence Number	2	
Asynchronous	false	

confirma = confirmaOperacao() : Message		
To	Name	Value
	End Model Element	UI sandra
Type	Message	
Sequence Number	3	
Asynchronous	false	



UI sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

fichaMorador:=getFicha(idMorador) : Message		
To	Name	Value
	End Model Element	:Moradores
Type	Message	
Sequence Number	1	
Asynchronous	false	

apresentaFicha(fichaMorador) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	2	
Asynchronous	false	

confirma = confirmaOperacao() : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	3	
Asynchronous	false	

removeMorador : Message		
To	Name	Value
	End Model Element	 :Moradores
Type	Message	
Sequence Number	4	
Asynchronous	false	



:Moradores

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

fichaMorador:=getFicha(idMorador) : Message		
To	Name	Value
	End Model Element	 :Moradores
Type	Message	
Sequence Number	1	
Asynchronous	false	

removeMorador : Message		
To	Name	Value
	End Model Element	 :Moradores
Type	Message	
Sequence Number	4	
Asynchronous	false	

confirma==False

Name	Value
Interaction Operator	opt

Interaction Operands

Value
InteractionOperand

Covered LifeLines

Name	Documentation
 Funcionario	
 UI sandra	

InteractionOperand

Name	Value	
Guard	Name	Value
	Constraint	confirma==False

Children

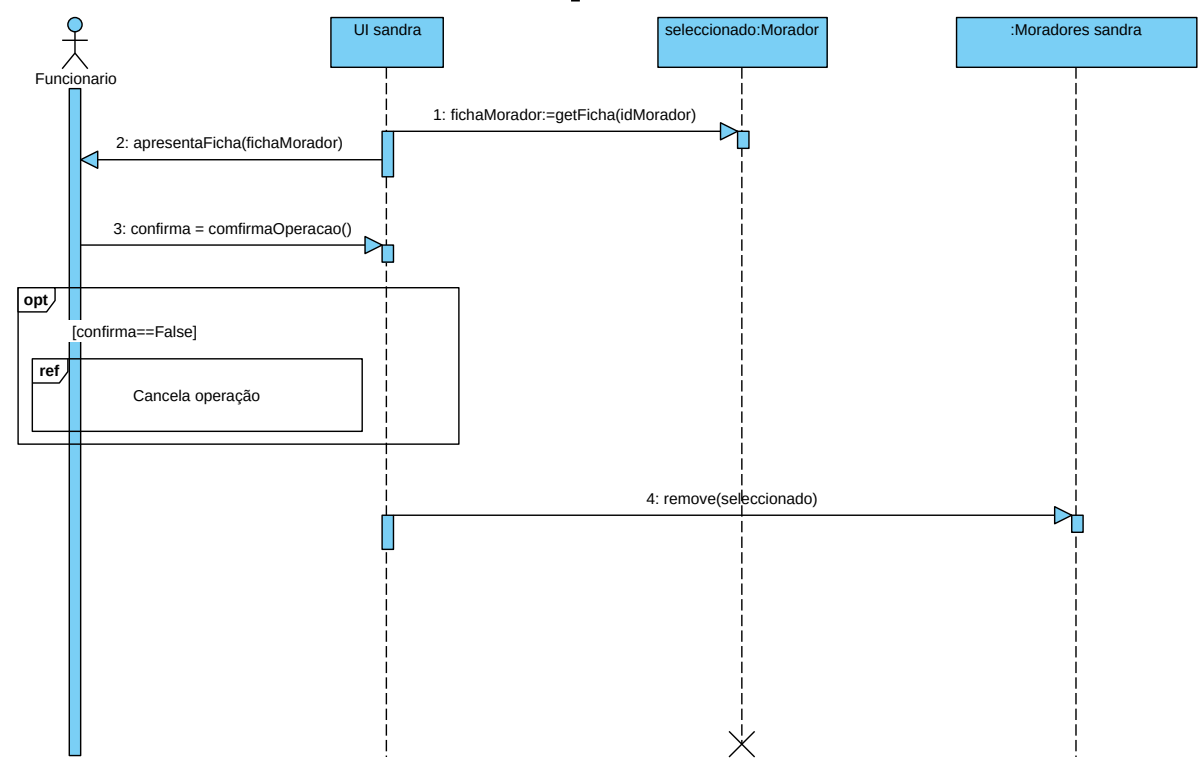
Name	Documentation
 InteractionUse	

InteractionUse

Name	Value
Refers To	 Cancela operação

Sequence Diagram

Remover Morador passo3



Summary

Name	Documentation
UI sandra	
seleccionado:Morador	
Funcionario	
:Moradores sandra	
confirma==False	
InteractionOperand	
InteractionUse	

Details

UI sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

fichaMorador:=getFicha(idMorador) : Message		
To	Name	Value
	End Model Element	 seleccionado:Morador
Type	Message	
Sequence Number	1	
Asynchronous	false	

apresentaFicha(fichaMorador) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	2	
Asynchronous	false	

confirma = confirmaOperacao() : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	3	
Asynchronous	false	

remove(selecionado) : Message		
To	Name	Value
	End Model Element	 :Moradores sandra
Type	Message	
Sequence Number	4	
Asynchronous	false	

selecionado:Morador

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	true
Multi Object	false

Relationships

fichaMorador:=getFicha(idMorador) : Message		
To	Name	Value
	End Model Element	 selecionado:Morador
Type	Message	
Sequence Number	1	
Asynchronous	false	



Funcionario

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false
Referenced Actor	 Funcionario

Relationships

apresentaFicha(fichaMorador) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	2	
Asynchronous	false	

confirma = confirmaOperacao() : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	3	
Asynchronous	false	



:Moradores sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

remove(seleccionado) : Message		
To	Name	Value
	End Model Element	 :Moradores sandra
Type	Message	
Sequence Number	4	
Asynchronous	false	

confirma==False

Name	Value
Interaction Operator	opt

Interaction Operands

Value
InteractionOperand

Covered LifeLines

Name	Documentation
 Funcionario	
 UI sandra	

InteractionOperand

Name	Value	
Guard	Name	Value
	Constraint	confirma==False

Children

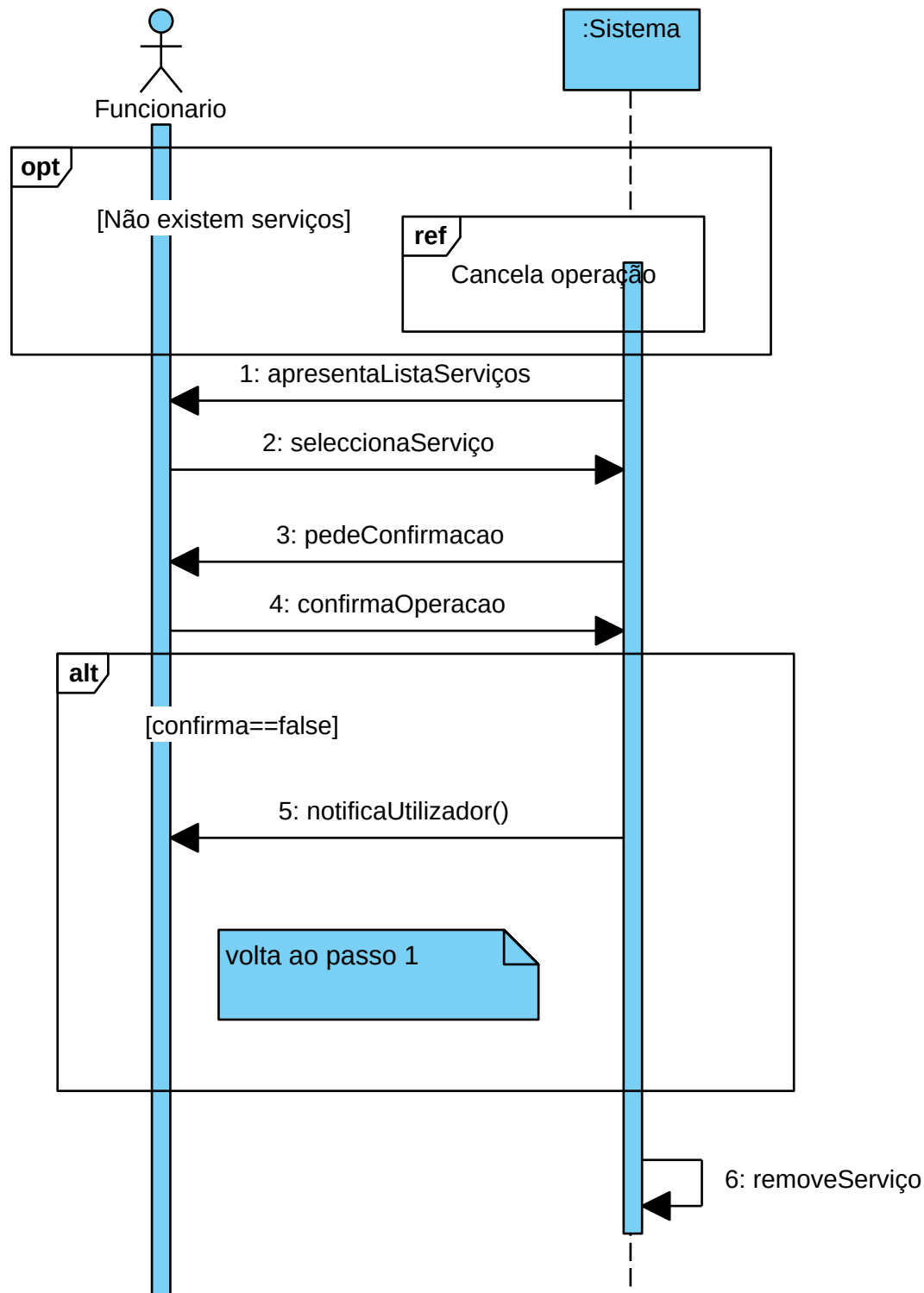
Name	Documentation
 InteractionUse	

InteractionUse

Name	Value
Refers To	 Cancela operação

Sequence Diagram

Remover Serviço passo1



Summary

Name	Documentation
 Funcionario	

 :Sistema	
 confirma==false	
 Operand	
 N/A	volta ao passo 1
 Não existem serviços	
 Operand	
 InteractionUse2	

Details



Funcionario

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresentaListaServiços : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	1	
Asynchronous	false	

selecionaServiço : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

pedeConfirmacao : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	3	
Asynchronous	false	

confirmaOperacao : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

notificaUtilizador() : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	5	
Asynchronous	false	

:Sistema

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresentaListaServiços : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	1	
Asynchronous	false	

seleccionaServiço : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

pedeConfirmacao : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	3	
Asynchronous	false	

confirmaOperacao : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

notificaUtilizador() : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	5	
Asynchronous	false	

removeServiço : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Self Message	
Sequence Number	6	
Asynchronous	false	

removeServiço : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Self Message	
Sequence Number	6	
Asynchronous	false	

 **confirma==false**

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Funcionario	
 :Sistema	

Operand

Name	Value	
Guard	Name	Value
	Constraint	confirma==false

Children

Name	Documentation
 N/A	volta ao passo 1

N/A

Name	Value
Documentation	volta ao passo 1

Não existem serviços

Name	Value
Interaction Operator	opt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Funcionario	
 :Sistema	

Operand

Name	Value	
Guard	Name	Value
	Constraint	Não existem serviços

Children

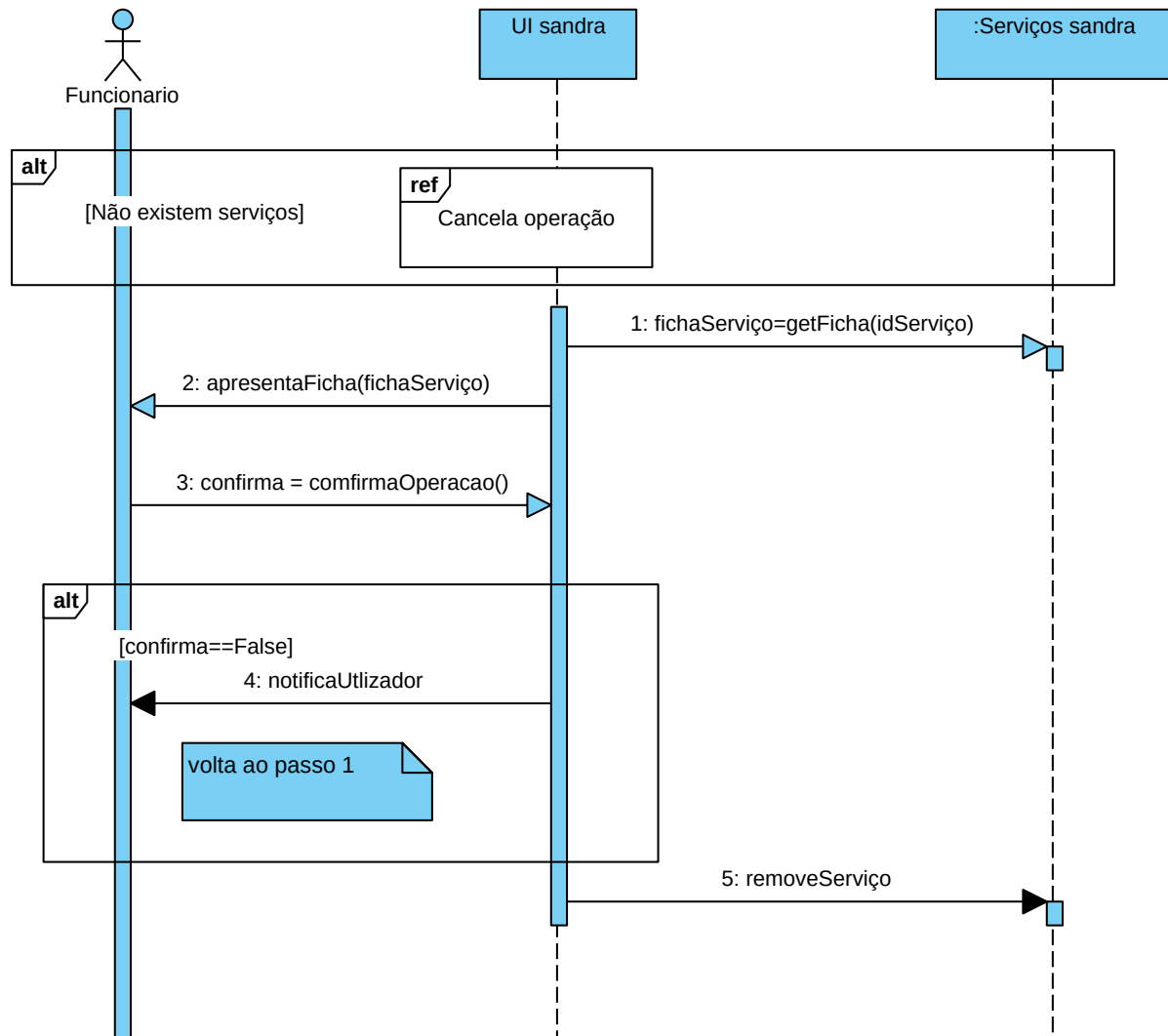
Name	Documentation
 InteractionUse2	

InteractionUse2

Name	Value
Refers To	 Cancela operação

Sequence Diagram

Remover Serviço passo2



Summary

Name	Documentation
 Funcionario	
 UI sandra	
 :Serviços sandra	
 confirma==False	
 InteractionOperand	
 N/A	volta ao passo 1
 Não existem serviços	
 Operand	
 InteractionUse2	

Details



Funcionario

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false
Referenced Actor	Funcionario

Relationships

apresentaFicha(fichaServiço) : Message		
To	Name	Value
	End Model Element	Funcionario
Type	Message	
Sequence Number	2	
Asynchronous	false	

confirma = confirmaOperacao() : Message		
To	Name	Value
	End Model Element	UI sandra
Type	Message	
Sequence Number	3	
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	Funcionario
Type	Message	
Sequence Number	4	
Asynchronous	false	



UI sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

fichaServiço=getFicha(idServiço) : Message		
To	Name	Value
	End Model Element	 :Serviços sandra
Type	Message	
Sequence Number	1	
Asynchronous	false	

apresentaFicha(fichaServiço) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	2	
Asynchronous	false	

confirma = confirmaOperacao() : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	3	
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	4	
Asynchronous	false	

removeServiço : Message		
To	Name	Value
	End Model Element	 :Serviços sandra
Type	Message	
Sequence Number	5	
Asynchronous	false	

:Serviços sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

fichaServiço=getFicha(idServiço) : Message		
To	Name	Value
	End Model Element	 :Serviços sandra
Type	Message	
Sequence Number	1	
Asynchronous	false	

removeServiço : Message		
To	Name	Value
	End Model Element	 :Serviços sandra
Type	Message	
Sequence Number	5	
Asynchronous	false	

confirma==False

Name	Value
Interaction Operator	alt

Interaction Operands

Value
InteractionOperand

Covered LifeLines

Name	Documentation
 Funcionario	
 UI sandra	

InteractionOperand

Name	Value	
Guard	Name	Value
	Constraint	confirma==False

N/A

Name	Value
Documentation	volta ao passo 1

Não existem serviços

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Funcionario	
 UI sandra	
 :Serviços sandra	

Operand

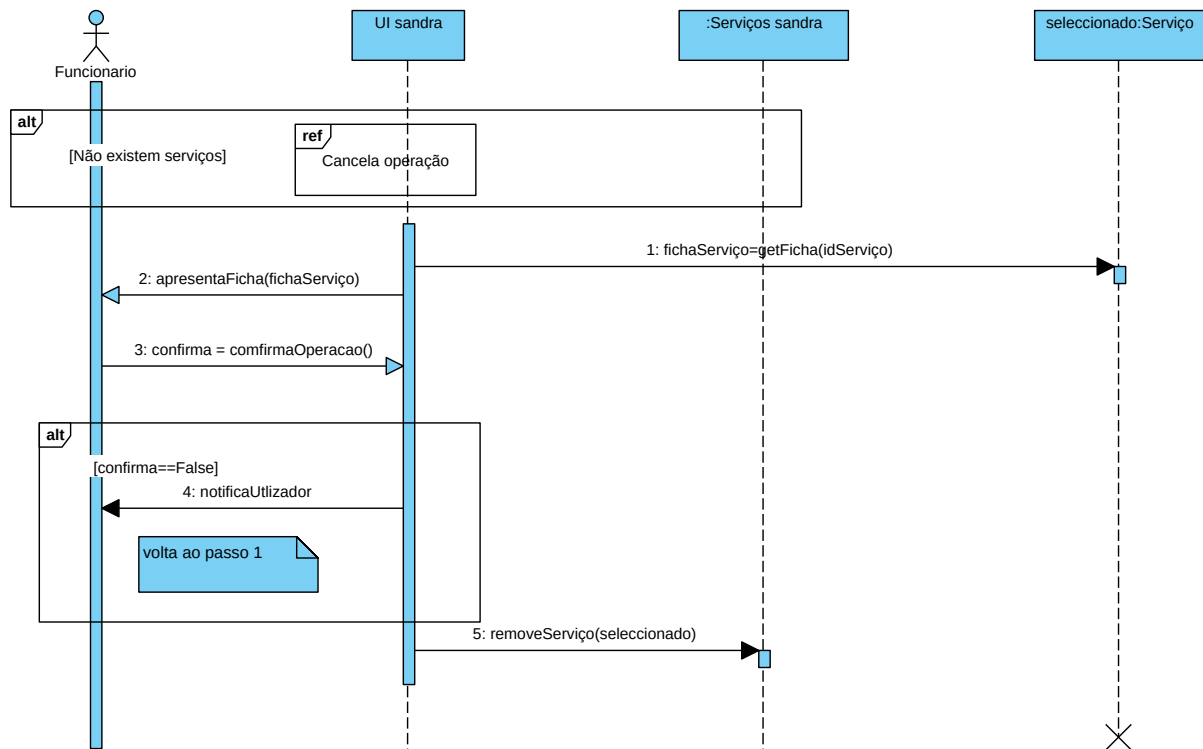
Name	Value	
Guard	Name	Value
	Constraint	Não existem serviços

InteractionUse2

Name	Value
Refers To	 Cancela operação

Sequence Diagram

Remover Serviço passo3



Summary

Name	Documentation
 Funcionario	
 UI sandra	
 seleccionado:Serviço	
 :Serviços sandra	
 confirma==False	
 InteractionOperand	
 N/A	volta ao passo 1
 Não existem serviços	
 Operand	
 InteractionUse2	

Details



Funcionario

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false
Referenced Actor	Funcionario

Relationships

apresentaFicha(fichaServiço) : Message		
To	Name	Value
	End Model Element	Funcionario
Type	Message	
Sequence Number	2	
Asynchronous	false	

confirma = confirmaOperacao() : Message		
To	Name	Value
	End Model Element	UI sandra
Type	Message	
Sequence Number	3	
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	Funcionario
Type	Message	
Sequence Number	4	
Asynchronous	false	



UI sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

fichaServiço=getFicha(idServiço) : Message		
To	Name	Value
	End Model Element	 seleccionado:Serviço
Type	Message	
Sequence Number	1	
Asynchronous	false	

apresentaFicha(fichaServiço) : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	2	
Asynchronous	false	

confirma = confirmaOperacao() : Message		
To	Name	Value
	End Model Element	 UI sandra
Type	Message	
Sequence Number	3	
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Funcionario
Type	Message	
Sequence Number	4	
Asynchronous	false	

removeServiço(seleccionado) : Message		
To	Name	Value
	End Model Element	 :Serviços sandra
Type	Message	
Sequence Number	5	
Asynchronous	false	

selecionado:Serviço

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	true
Multi Object	false

Relationships

fichaServiço=getFicha(idServiço) : Message		
To	Name	Value
	End Model Element	 selecionado:Serviço
Type	Message	
Sequence Number	1	
Asynchronous	false	

:Serviços sandra

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

removeServiço(selecionado) : Message		
To	Name	Value
	End Model Element	 :Serviços sandra
Type	Message	
Sequence Number	5	
Asynchronous	false	

confirma==False

Name	Value
Interaction Operator	alt

Interaction Operands

Value
InteractionOperand

Covered LifeLines

Name	Documentation
 Funcionario	
 UI sandra	

InteractionOperand

Name	Value	
Guard	Name	Value
	Constraint	confirma==False

N/A

Name	Value
Documentation	volta ao passo 1

Não existem serviços

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Funcionario	
 UI sandra	
 :Serviços sandra	

Operand

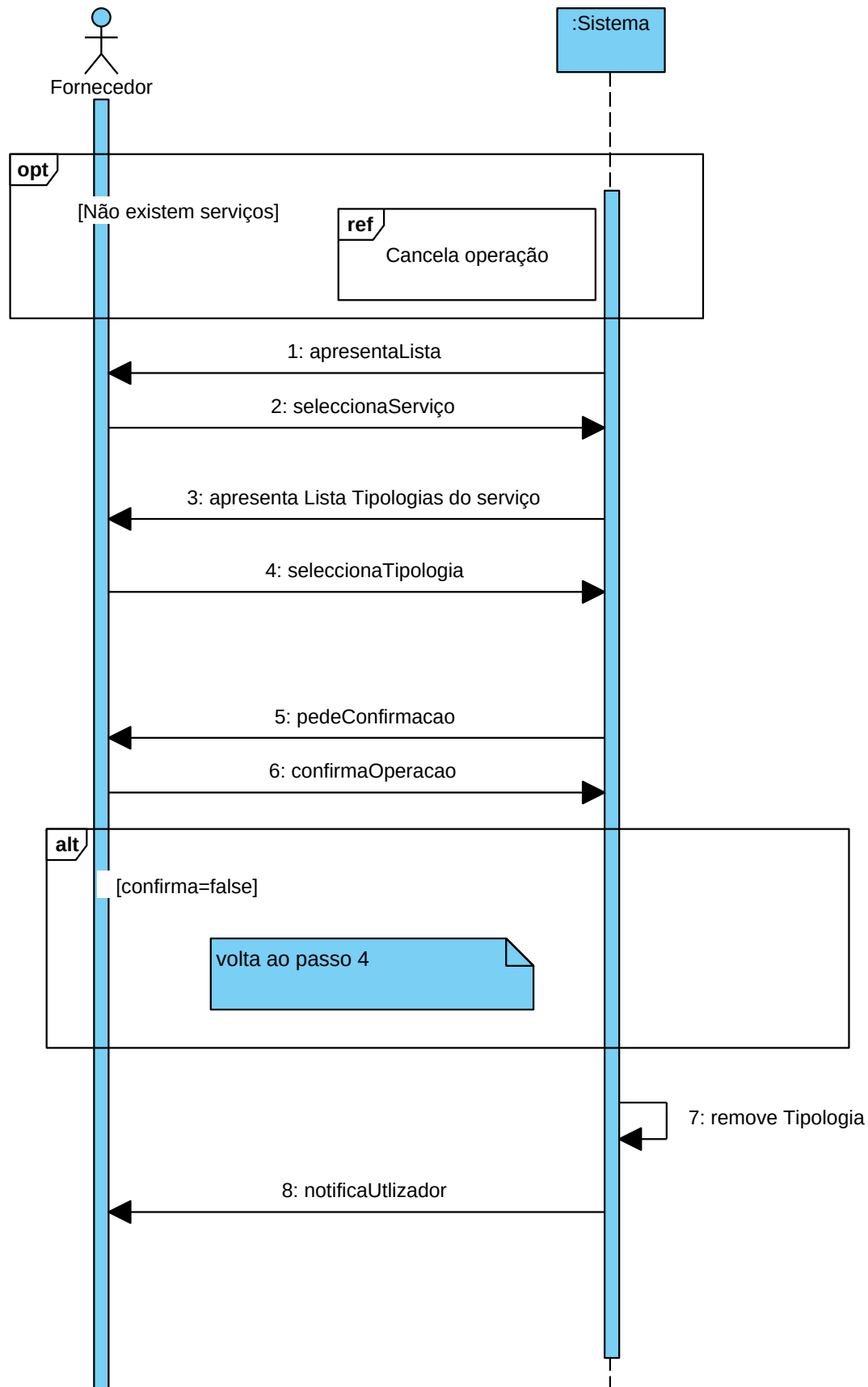
Name	Value	
Guard	Name	Value
	Constraint	Não existem serviços

InteractionUse2

Name	Value
Refers To	 Cancela operação

Sequence Diagram

Remover Tipologia passo1



Summary

Name	Documentation
 Fornecedor	
 :Sistema	
 Não existem serviços	
 Operand	
 InteractionUse2	
 confirma=false	
 Operand	
 N/A	volta ao passo 4

Details

Fornecedor

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresentaLista : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	1	
Asynchronous	false	

selecionaServiço : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresenta Lista Tipologias do serviço : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	3	
Asynchronous	false	

selecionaTipologia : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

pedeConfirmacao : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	5	
Asynchronous	false	

confirmaOperacao : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	6	
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	8	
Asynchronous	false	

 :Sistema

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

apresentaLista : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	1	
Asynchronous	false	

selecionaServiço : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	2	
Asynchronous	false	

apresenta Lista Tipologias do serviço : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	3	
Asynchronous	false	

selecionaTipologia : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	4	
Asynchronous	false	

pedeConfirmacao : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	5	
Asynchronous	false	

confirmaOperacao : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Message	
Sequence Number	6	
Asynchronous	false	

remove Tipologia : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Self Message	
Sequence Number	7	
Asynchronous	false	

remove Tipologia : Message		
To	Name	Value
	End Model Element	 :Sistema
Type	Self Message	
Sequence Number	7	
Asynchronous	false	

notificaUtilizador : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	8	
Asynchronous	false	

Não existem serviços

Name	Value
Interaction Operator	opt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Fornecedor	
 :Sistema	

Operand

Name	Value	
Guard	Name	Value
	Constraint	Não existem serviços

Children

Name	Documentation
 InteractionUse2	

InteractionUse2

Name	Value
Refers To	 Cancela operação

confirma=false

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Fornecedor	
 :Sistema	

Operand

Name	Value	
Guard	Name	Value
	Constraint	confirma=false

Children

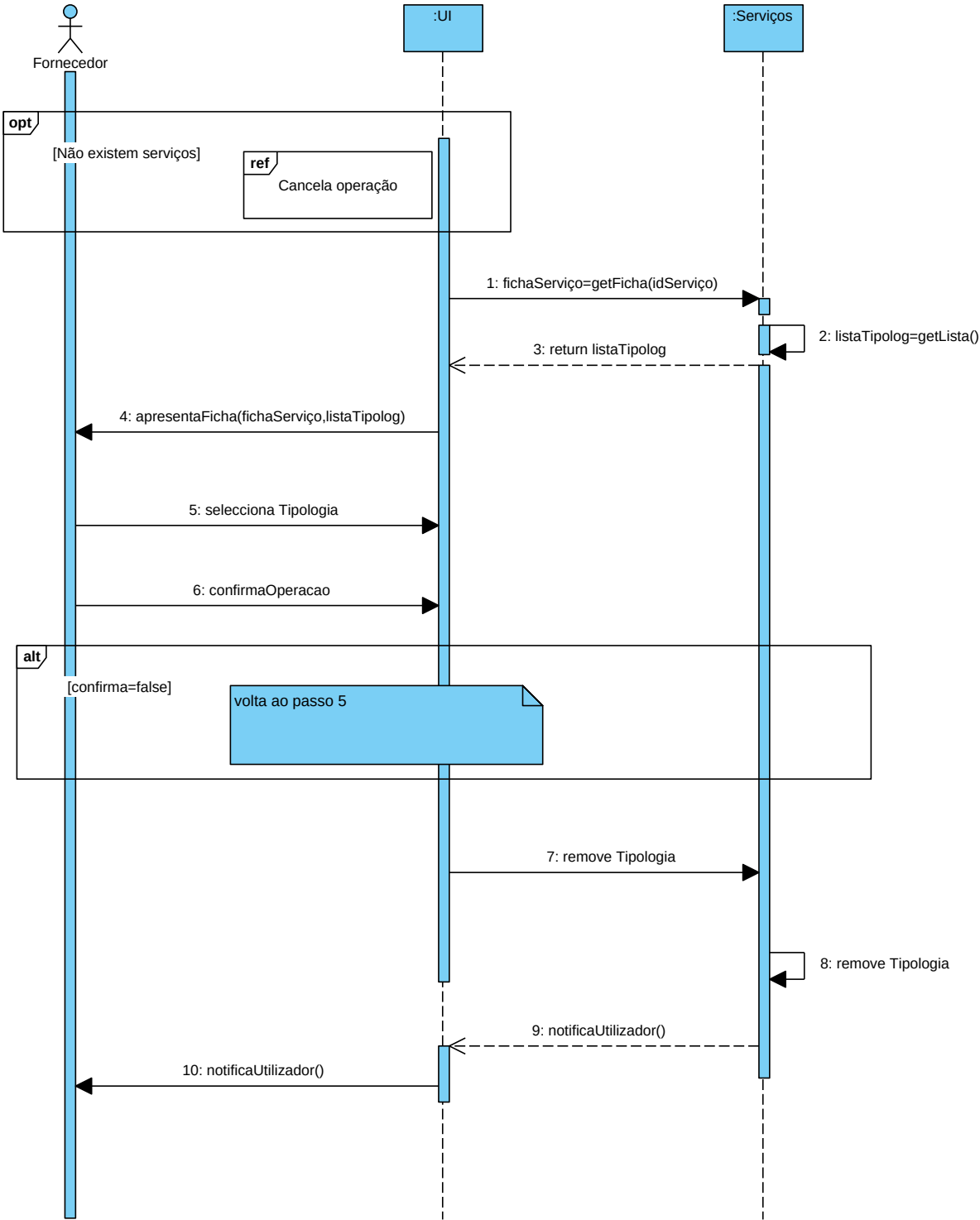
Name	Documentation
 N/A	volta ao passo 4

N/A

Name	Value
Documentation	volta ao passo 4

Sequence Diagram

Remover Tipologia passo2



Summary

Name	Documentation
 :UI	

 Fornecedor	
 :Serviços	
 Não existem serviços	
 Operand	
 InteractionUse2	
 confirma=false	
 Operand	
 N/A	volta ao passo 5

Details

 :UI

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

fichaServiço=getFicha(idServiço) : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Message	
Sequence Number	1	
Asynchronous	false	

return listaTipolog : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

apresentaFicha(fichaServiço,listaTipolog) : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	4	
Asynchronous	false	

seleciona Tipologia : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	5	
Asynchronous	false	

confirmaOperacao : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	6	
Asynchronous	false	

remove Tipologia : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Message	
Sequence Number	7	
Asynchronous	false	

notificaUtilizador() : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	9	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

notificaUtilizador() : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	10	
Asynchronous	false	

Fornecedor

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

apresentaFicha(fichaServiço,listaTipolog) : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	4	
Asynchronous	false	

seleciona Tipologia : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	5	
Asynchronous	false	

confirmaOperacao : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	6	
Asynchronous	false	

notificaUtilizador() : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	10	
Asynchronous	false	

:Serviços

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

fichaServiço=getFicha(idServiço) : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Message	
Sequence Number	1	
Asynchronous	false	

listaTipolog=getLista() : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Self Message	
Sequence Number	2	
Asynchronous	false	

listaTipolog=getLista() : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Self Message	
Sequence Number	2	
Asynchronous	false	

return listaTipolog : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

remove Tipologia : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Message	
Sequence Number	7	
Asynchronous	false	

remove Tipologia : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Self Message	
Sequence Number	8	
Asynchronous	false	

remove Tipologia : Message		
To	Name	Value
	End Model Element	 :Serviços
Type	Self Message	
Sequence Number	8	
Asynchronous	false	

notificaUtilizador() : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	9	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

Não existem serviços

Name	Value
Interaction Operator	opt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Fornecedor	
 :UI	

Operand

Name	Value	
Guard	Name	Value
	Constraint	Não existem serviços

Children

Name	Documentation
 InteractionUse2	

InteractionUse2

Name	Value
Refers To	 Cancela operação

confirma=false

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Fornecedor	
 :UI	
 :Serviços	



Operand

Name	Value	
Guard	Name	Value
	Constraint	confirma=false

Children

Name	Documentation
 N/A	volta ao passo 5

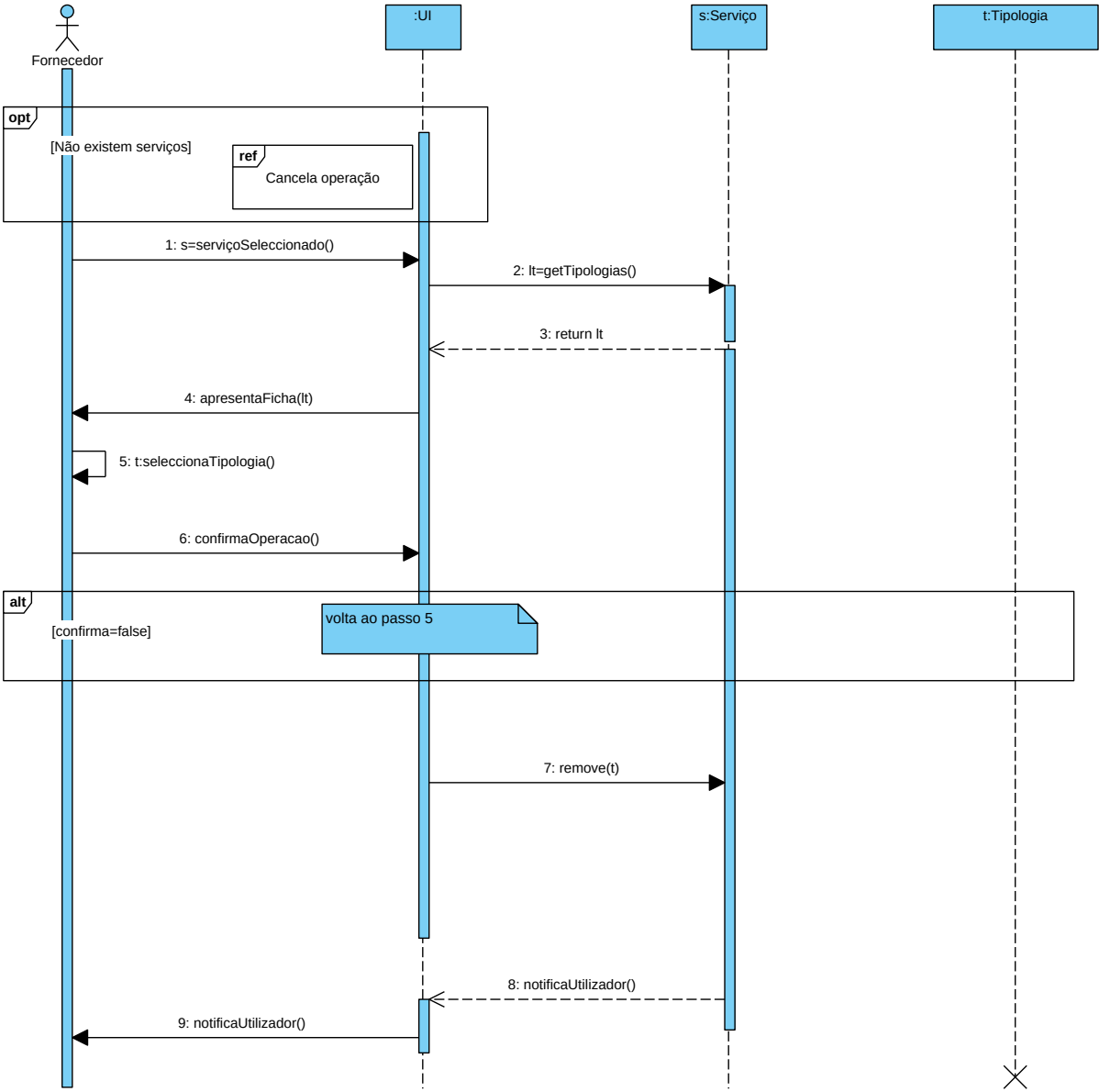


N/A

Name	Value
Documentation	volta ao passo 5

Sequence Diagram

Remover Tipologia passo3



Summary

Name	Documentation
Fornecedor	
:UI	
s:Serviço	
t:Tipologia	
Não existem serviços	
Operand	
InteractionUse2	
confirma=false	

 Operand	
 N/A	volta ao passo 5

Details



Fornecedor

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Relationships

s=serviçoSelecionado() : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	1	
Asynchronous	false	

apresentaFicha(It) : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	4	
Asynchronous	false	

t:seleccionaTipologia() : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Self Message	
Sequence Number	5	
Asynchronous	false	

t:seleccionaTipologia() : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Self Message	
Sequence Number	5	
Asynchronous	false	

confirmaOperacao() : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	6	
Asynchronous	false	

notificaUtilizador() : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	9	
Asynchronous	false	

 :UI

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

s=serviçoSeleccionado() : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	1	
Asynchronous	false	

It=getTipologias() : Message		
To	Name	Value
	End Model Element	 s:Serviço
Type	Message	
Sequence Number	2	
Asynchronous	false	

return It : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

apresentaFicha(It) : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	4	
Asynchronous	false	

confirmaOperacao() : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	6	
Asynchronous	false	

remove(t) : Message		
To	Name	Value
	End Model Element	 s:Serviço
Type	Message	
Sequence Number	7	
Asynchronous	false	

notificaUtilizador() : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	8	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

notificaUtilizador() : Message		
To	Name	Value
	End Model Element	 Fornecedor
Type	Message	
Sequence Number	9	
Asynchronous	false	



s:Serviço

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Relationships

It=getTipologias() : Message		
To	Name	Value
	End Model Element	 s:Serviço
Type	Message	
Sequence Number	2	
Asynchronous	false	

return It : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	3	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

remove(t) : Message		
To	Name	Value
	End Model Element	 s:Serviço
Type	Message	
Sequence Number	7	
Asynchronous	false	

notificaUtilizador() : Message		
To	Name	Value
	End Model Element	 :UI
Type	Message	
Sequence Number	8	
Action Type	Name	Value
	Name	Return
	Iteration	false
	Asynchronous	false
Asynchronous	false	

t:Tipologia

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	true
Multi Object	false

Não existem serviços

Name	Value
Interaction Operator	opt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Fornecedor	
 :UI	

Operand

Name	Value	
Guard	Name	Value
	Constraint	Não existem serviços

Children

Name	Documentation
 InteractionUse2	

InteractionUse2

Name	Value
Refers To	 Cancela operação

confirma=false

Name	Value
Interaction Operator	alt

Interaction Operands

Value
Operand

Covered LifeLines

Name	Documentation
 Fornecedor	
 :UI	
 s:Serviço	
 t:Tipologia	



Operand

Name	Value	
Guard	Name	Value
	Constraint	confirma=false



N/A

Name	Value
Documentation	volta ao passo 5