



Universidade do Minho

Conselho de Cursos de Engenharia

Licenciatura em Engenharia Informática

3ºAno

Disciplina:

Desenvolvimento de Sistemas de Software

Ano Lectivo de 2009/2010

GereComSaber – (2ªFase)

Grupo: 33

João Correia 40688

Luís Ferreira 47043

Marcos Sousa 43197

Ricardo Ferreira 47057

Dezembro, 2009

Data de Recepção	
Responsável	
Avaliação	
Observações	

GereComSaber - (2ªFase)



João Correia 40688



Luís Ferreira 47043



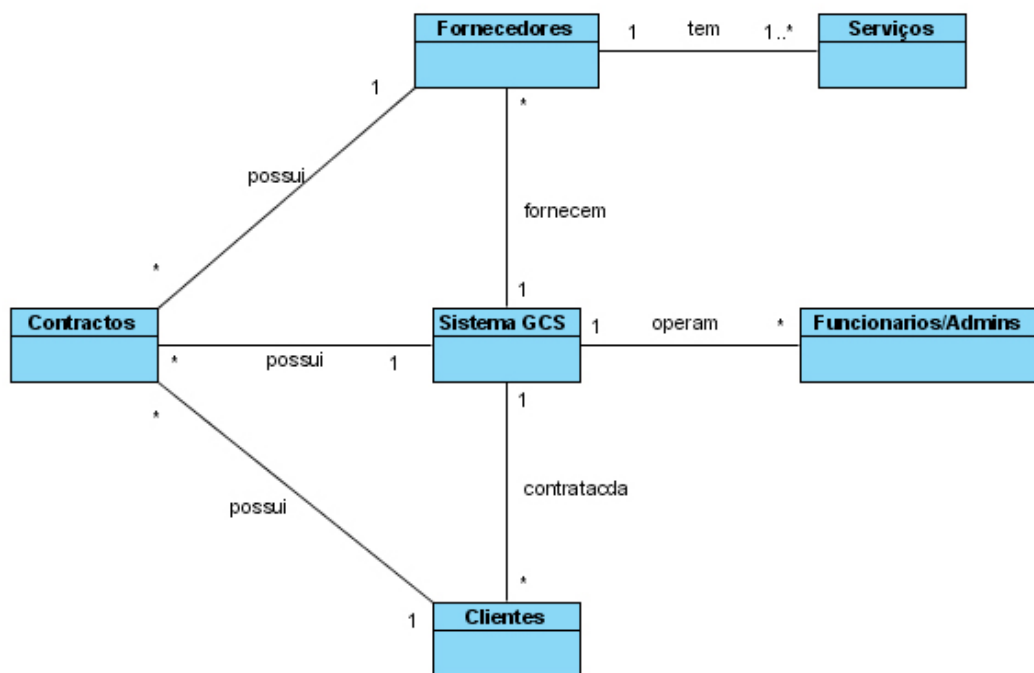
Marcos Sousa 43197



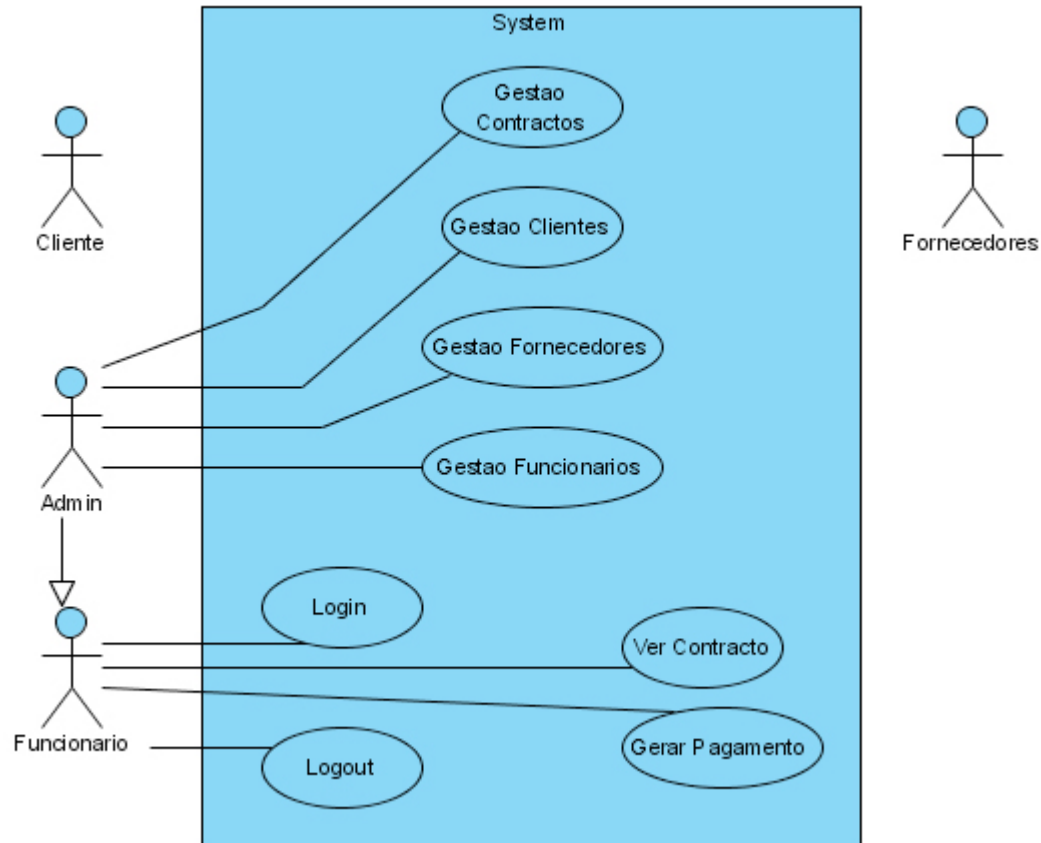
Ricardo Ferreira 47057

Dezembro, 2009

Modelo do Domínio



Use Case's



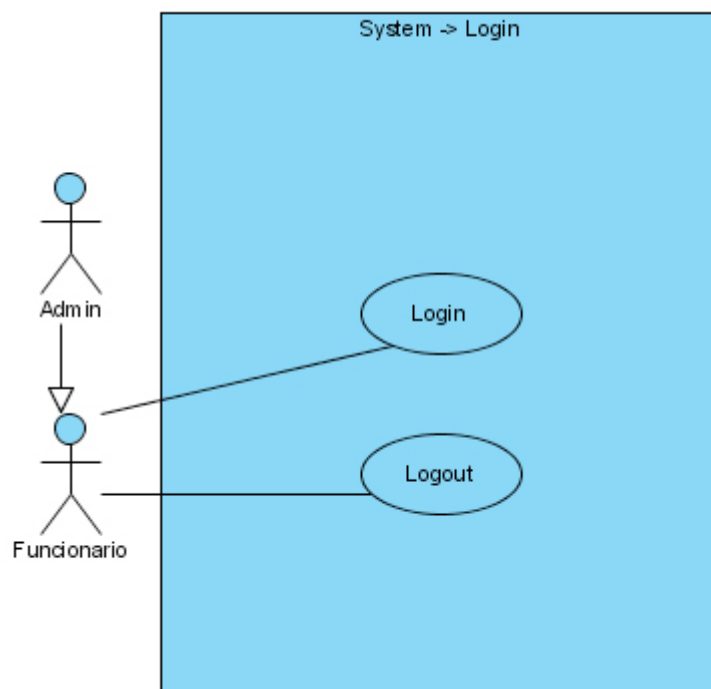
Gerar Pagamento

Super Use Case		
Author	Ricardo Ferreira	
Date	30/Nov/2009 21:09:01	
Brief Description		
Preconditions	Login AND (numero contractos <=1)	
Post-conditions		
Flow of Events		Actor Input
	1	
	2	Selecciona cliente
	3	
	4	Selecciona contracto
	5	
		System Response
		Lista os clientes existentes
		Lista contractos em divida
		Sistema regista pagamento

Ver Contacto

Super Use Case		
Author	Ricardo Ferreira	
Date	26/Nov/2009 22:46:14	
Brief Description		
Preconditions	Login AND (numero contractos <= 1)	
Post-conditions		
Flow of Events		Actor Input
	1	
	2	Selecciona cliente
	3	
	4	Selecciona contrato
	5	
		System Response
		Lista clientes com contracto
		Lista contractos do cliente seleccionado
		Mostra: Serviços contactados Tipo de Pagamento Divida ou Estorno Validade do contracto

Use Case – Gestão Clientes



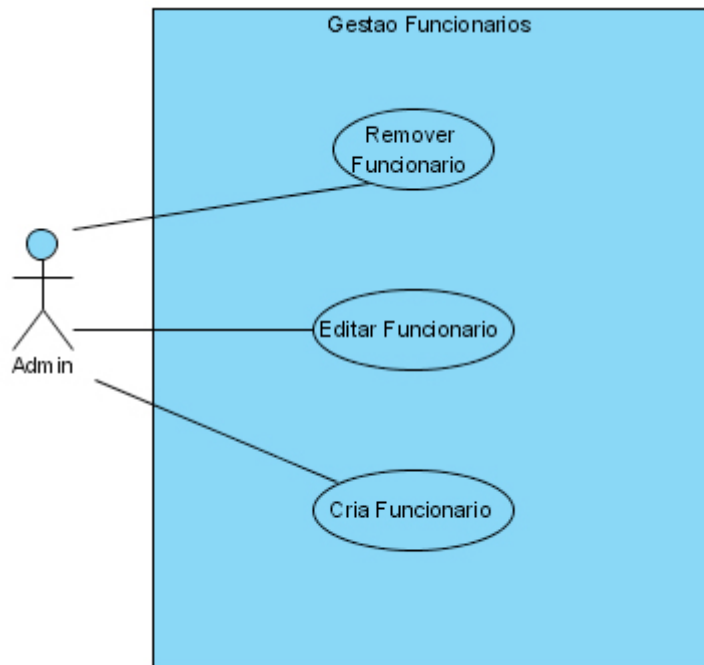
Login

Super Use Case		
Author Ricardo Ferreira		
Date 26/Nov/2009 17:56:59		
Brief Description		
Preconditions Logout		
Post-conditions Login		
Flow of Events		Actor Input
	1	
	2	Insere Username e Password
	3	
	4	
Exception		System Response
	1	
	2	
	3	Verifica dados
	4	Efectua login e atribui privilegios
Exception		System Response
	1	
	2	
	3	Menssagem Erro("Dados errados ou inexistentes")
	4	Volta 1)

Logout

Super Use Case		
Author Ricardo Ferreira		
Date 26/Nov/2009 18:03:27		
Brief Description		
Preconditions Login		
Post-conditions Logout		
Flow of Events		Actor Input
	1	
		System Response
		Logout e remove privilegios

Use Case – Gestão Funcionarios



Remover Funcionario

Super Use Case			
Author	Ricardo Ferreira		
Date	26/Nov/2009 18:22:52		
Brief Description			
Preconditions	(numero funcionarios <= 1) AND (Login com privilegios de Admin)		
Post-conditions	numero funcionarios - 1		
Flow of Events		Actor Input	System Response
	1		Lista funcionarios existentes
	2	Seleciona funcionario a remover	
	3		Pede confirmacao
	4	Confirma	
	5		Apaga registo do funcionario selecionado
Exception		Actor Input	System Response
	1		
	2		
	3		Sai da janela remover funcionarios

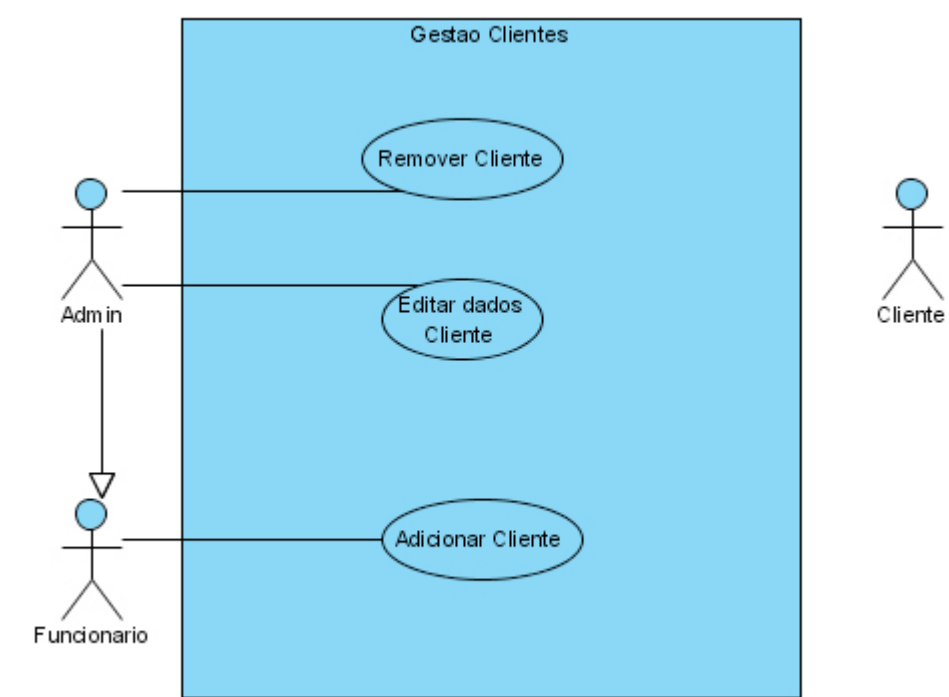
Editar Funcionario

Super Use Case		
Author		
Ricardo Ferreira		
Date		
26/Nov/2009 18:15:59		
Brief Description		
Preconditions		
(numero funcionarios <= 1) AND (Login com privilegios de Admin)		
Post-conditions		
Flow of Events		Actor Input
	1	
	2	Seleciona funcionario
	3	
	4	Altera dados do funcionario
	5	
	6	
Exception		System Response
	1	Lista funcionarios existentes
	2	
	3	Mostra dados do funcionario
	4	
	5	Verifica alteracao
	6	Altera dados
		Actor Input
	1	
	2	
	3	
	4	
	5	
	6	
		System Response
	1	
	2	
	3	
	4	
	5	Menssagem Erro("Username existente")
	6	Volta 3)

Adicionar Funcionario

Super Use Case		
Author		
Ricardo Ferreira		
Date		
26/Nov/2009 18:08:30		
Brief Description		
Preconditions		
Post-conditions		
(numero funcionarios + 1) AND (Login com privilegios de Admin)		
Flow of Events		Actor Input
	1	
	2	Introduz dados
	3	
	4	
Exception		System Response
	1	Pede Username e Pass
	2	
	3	Verifica dados
	4	Insere funcionario no sistema
		Actor Input
	1	
	2	
	3	
	4	
		System Response
	1	
	2	
	3	Menssagem Erro("Username ja existente")
	4	Volta 1)

Use Case – Gestão Clientes



Adicionar Cliente

Super Use Case		
Author		
Ricardo Ferreira		
Date		
26/Nov/2009 18:34:00		
Brief Description		
Preconditions		
Login		
Post-conditions		
numero clientes + 1		
Flow of Events		Actor Input
	1	
	2	Introduz dados cliente
	3	
Exception		System Response
	1	Pede dados cliente
	2	
	3	Verifica dados
	4	Adiciona cliente ao sistema
		Actor Input
	1	
	2	
	3	
		System Response
	1	
	2	
	3	Menssagem Erro("Cliente ja existente")
	4	Volta 1)

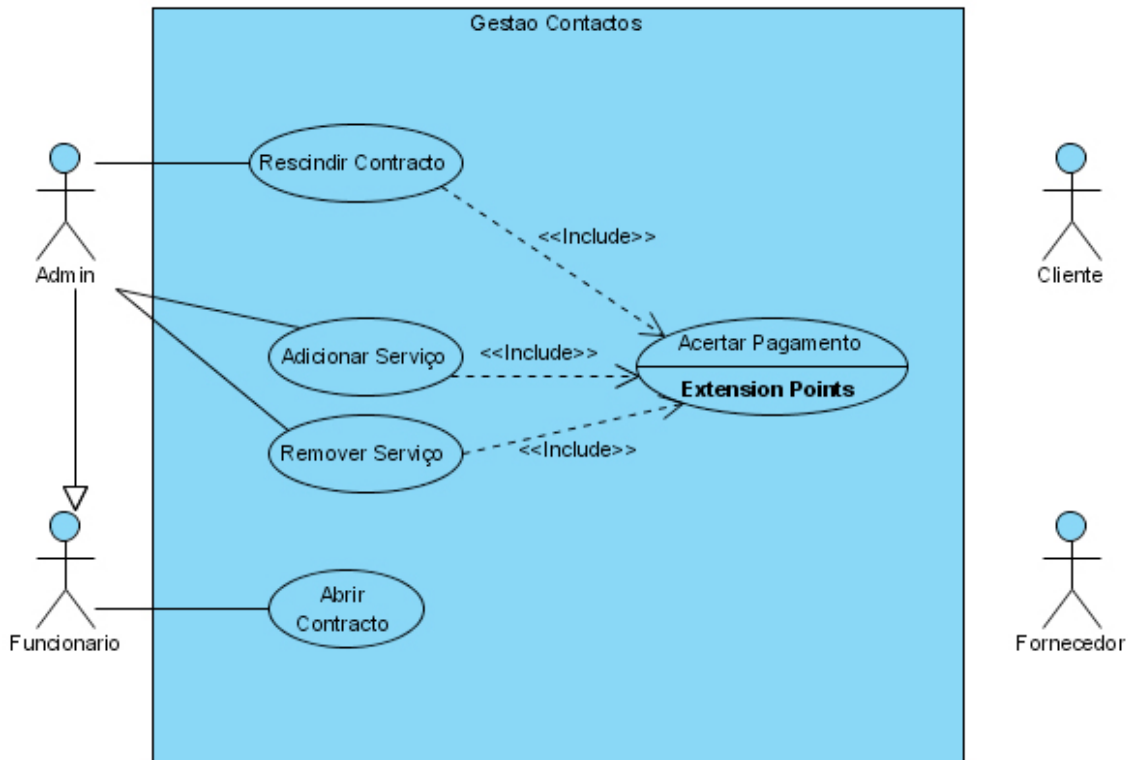
Editar Cliente

Super Use Case		
Author	Ricardo Ferreira	
Date	26/Nov/2009 18:37:00	
Brief Description		
Preconditions	(numero clientes <= 1) AND (Login com privilegios de Admin)	
Post-conditions		
Flow of Events		Actor Input
	1	
	2	Selecciona cliente
	3	
	4	Altera dados do cliente
	5	
	6	
Exception		System Response
	1	Lista os clientes no sistema
	2	
	3	Mostra dados do cliente
	4	
	5	Verifica dados
	6	Alteracao realizada no sistema
		Actor Input
	1	
	2	
	3	
	4	
	5	
	6	
		System Response
	1	Menssagem Erro("Cliente ja existente")
	2	Volta a 3)

Remover Cliente

Super Use Case		
Author	Ricardo Ferreira	
Date	26/Nov/2009 18:41:28	
Brief Description		
Preconditions	(numero clientes <= 1) AND (Login com privilegios de Admin)	
Post-conditions	numero clientes - 1	
Flow of Events		Actor Input
	1	
	2	Selecciona cliente
	3	
	4	Confirma
	5	
	6	
Exception		System Response
	1	Lista clientes
	2	
	3	Pede confirmacao
	4	
	5	Verifica se existem contractos abertos
	6	Elimina cliente do sistema
		Actor Input
	1	
	2	
	3	
	4	
	5	
	6	
		System Response
	1	Fecha janela de remocao de clientes
	2	
	3	Menssagem Erro("Este cliente tem contractos abertos não pode ser eliminado")
	4	Volta 1)

Use Case – Gestão Contractos



Rescindir Contracto

Super Use Case		
Author	Ricardo Ferreira	
Date	30/Nov/2009 21:55:26	
Brief Description		
Preconditions	(Login com privilegios de Admin) AND (numero contractos >=1)	
Post-conditions		
Flow of Events		Actor Input
		System Response
	1	Lista clientes com contractos no sistema
	2	Selecciona cliente
	3	Lista contractos activos
	4	Selecciona contracto
	5	Pede confirmacao da rescisao
	6	Acerta pagamento
	7	Marca contracto com rescindido

Adicionar Serviço

Super Use Case		
Author	Ricardo Ferreira	
Date	30/Nov/2009 22:02:54	
Brief Description		
Preconditions	(Login com privilegios de Admin) AND (numero contractos >=1)	
Post-conditions		
Flow of Events		Actor Input
	1	
	2	Selecciona cliente
	3	
	4	Selecciona servicios
	5	
	6	
		System Response
		Lista clientes com contractos no sistema
		Lista servicios
		Acerta pagamento
		Adiciona servicios ao contracto

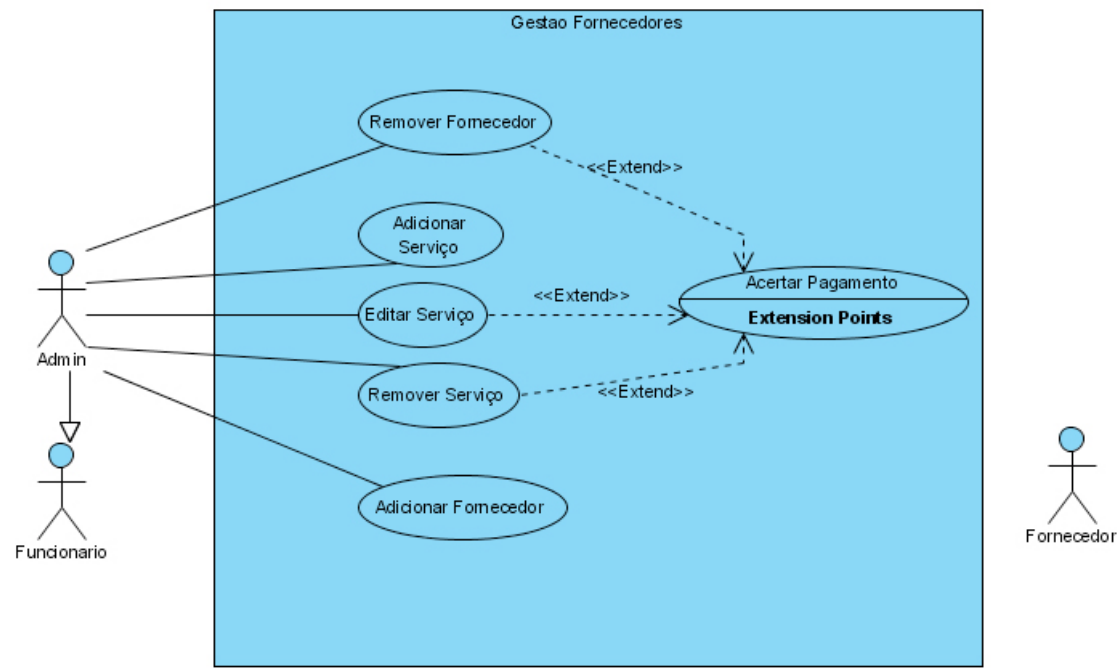
Remover Serviço

Super Use Case		
Author	Ricardo Ferreira	
Date	30/Nov/2009 22:06:40	
Brief Description		
Preconditions	(Login com privilegios de Admin) AND (numero contractos >=1)	
Post-conditions		
Flow of Events		Actor Input
	1	
	2	Selecciona cliente
	3	
	4	Selecciona servicios
	5	
	6	
		System Response
		Lista clientes com contractos no sistema
		Lista servicios
		Acerta pagamento
		Remove servicios ao contracto

Abrir Contracto

Super Use Case		
Author	Ricardo Ferreira	
Date	30/Nov/2009 15:36:10	
Brief Description		
Preconditions	(Login com privilegios Admin) AND (numero fornecedores >=1) AND (numero clientes >=1)	
Post-conditions	numero contractos = numero contractos + 1	
Flow of Events		Actor Input
	1	
	2	Seleccionar clientes
	3	
	4	Seleccionar fornecedor
	5	
	6	Seleccionar servicios
	7	
	8	
		System Response
		Listar clientes
		Listar fornecedores
		Listar servicios
		Regista contracto
		Calcula pagamento necessario

Use Case – Gestão Fornecedores



Remover Fornecedor

Super Use Case			
Author	Ricardo Ferreira		
Date	30/Nov/2009 21:18:21		
Brief Description			
Preconditions	(numero fornecedores >=1) AND Login com privilegios de Admin		
Post-conditions			
Flow of Events		Actor Input	System Response
	1		Lista os fornecedores existentes
	2	Selecciona fornecedor	
	3		Pede confirmacao
	4		Verifica acertos nos pagamentos
	5		Remove fornecedor do sistema
	6		Remove serviços associados
Exception		Actor Input	System Response
	1		
	2		
	3		Volta a 1)
Alternative		Actor Input	System Response
	1		
	2		
	3		
	4		Acerta pagamentos
	5		Volta 5)

Adicionar Serviço

Super Use Case		
Author	Ricardo Ferreira	
Date	30/Nov/2009 21:28:53	
Brief Description		
Preconditions	(Login com privilegios de Admin) AND (numero fornecedores >=1)	
Post-conditions		
Flow of Events		Actor Input
	1	
	2	Selecciona fornecedor
	3	
	4	Introduz dados
	5	
		System Response
		Lista fornecedores no sistema
		Pede dados: -Gama do servico -Tipo de servico -Preco
		Adiciona servico a tabela do fornecedor
Exception		Actor Input
	1	
	2	
	3	
	4	
		System Response
		Mensagem Erro("Tipo de servico ja existente neste fornecedor")
		Volta 3)

Remover Serviço

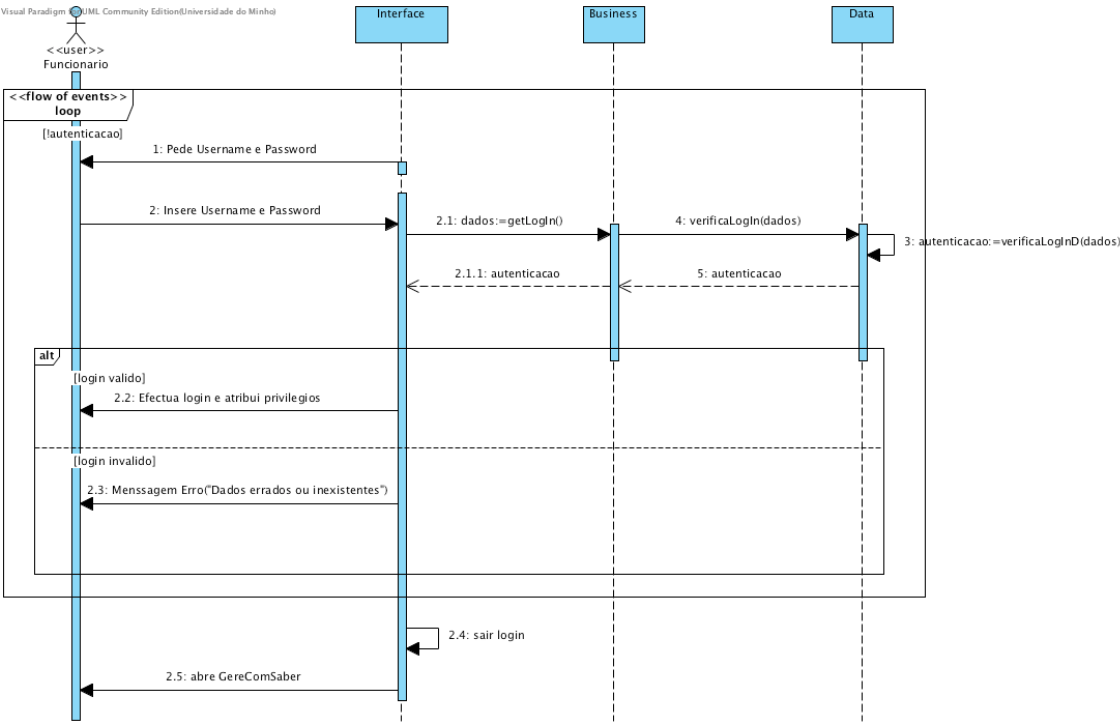
Super Use Case		
Author	Ricardo Ferreira	
Date	30/Nov/2009 21:42:10	
Brief Description		
Preconditions	(Login com privilegios Admin) AND (numero fornecedores >=1)	
Post-conditions		
Flow of Events		Actor Input
	1	
	2	Selecciona fornecedor
	3	
	4	Selecciona servico
	5	
	6	
	7	
		System Response
		Lista fornecedores no sistema
		Lista servicos do fornecedor
		Pede confirmacao de remocao
		Verifica remocao
		Remove o servico do sistema
Exception		Actor Input
	1	
	2	
	3	
	4	
		System Response
		Volta 3)
Alternative		Actor Input
	1	
	2	
	3	
	4	
	5	
	6	
	7	
		System Response
		Verifica se existem contractos com este servico
		Acerta pagamento
		Volta 7)

Editar Serviço

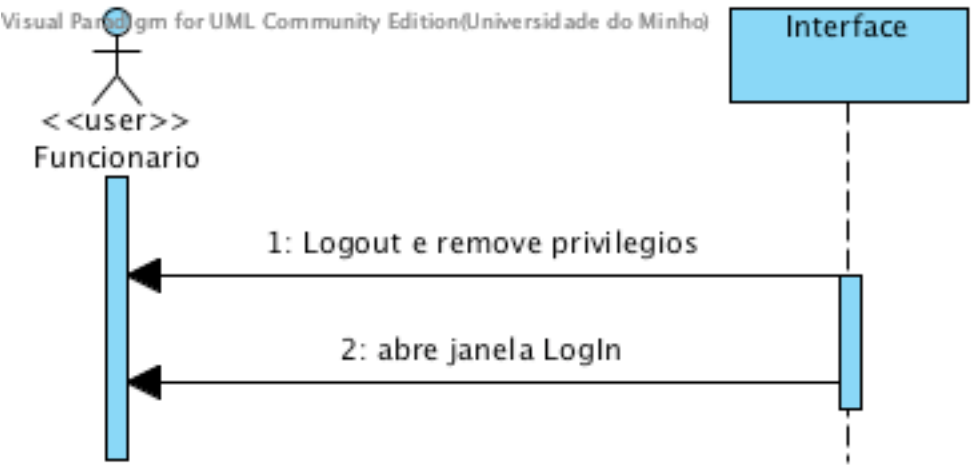
Super Use Case			
Author	Ricardo Ferreira		
Date	30/Nov/2009 21:35:24		
Brief Description			
Preconditions	(numero fornecedores>=1) AND (Login com privilegios de Admin)		
Post-conditions			
Flow of Events		Actor Input	System Response
	1		Lista fornecedores no sistema
	2	Selecciona fornecedor	
	3		Lista servicos existentes
	4	Selecciona servico	
	5		Mostra os dados do servico
	6	Altera os dados do servico	
	7		Verifica alteracao
Exception		Actor Input	System Response
	1		
	2		
	3		
	4		
	5		
	6		
	7		Mensagem Erro("Servico ja existente")
Alternative		Actor Input	System Response
	1		
	2		
	3		
	4		
	5		
	6		
	7		Verifica se existem contractos com este servico
			Acerta pagamento
	8		
	9		Volta 8)

Diagramas de Sequencia (implementação)

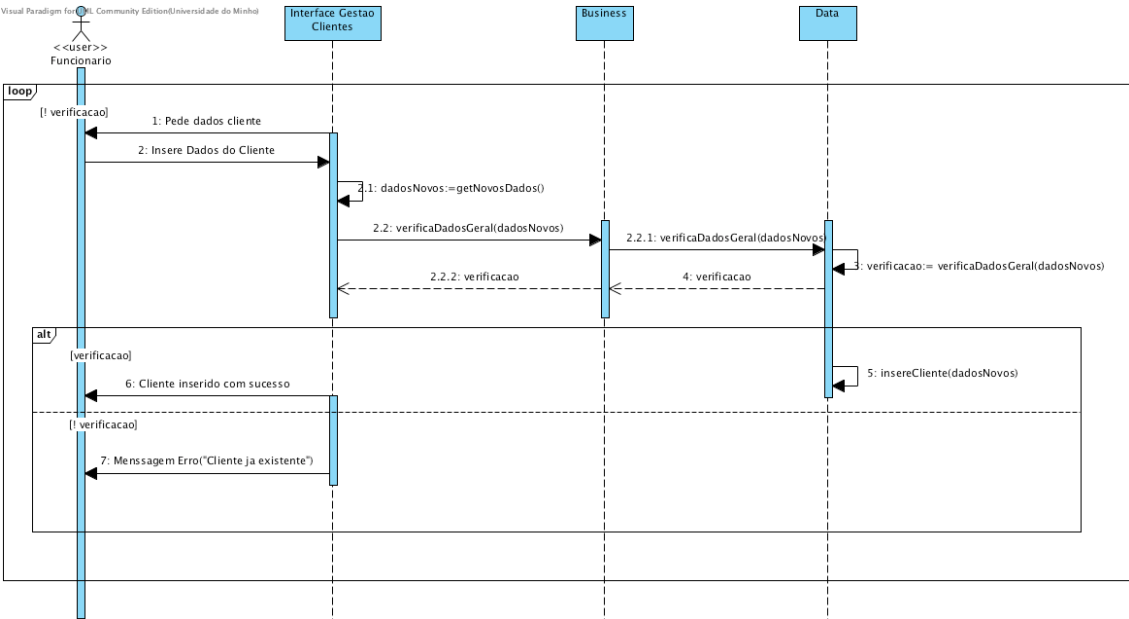
Login



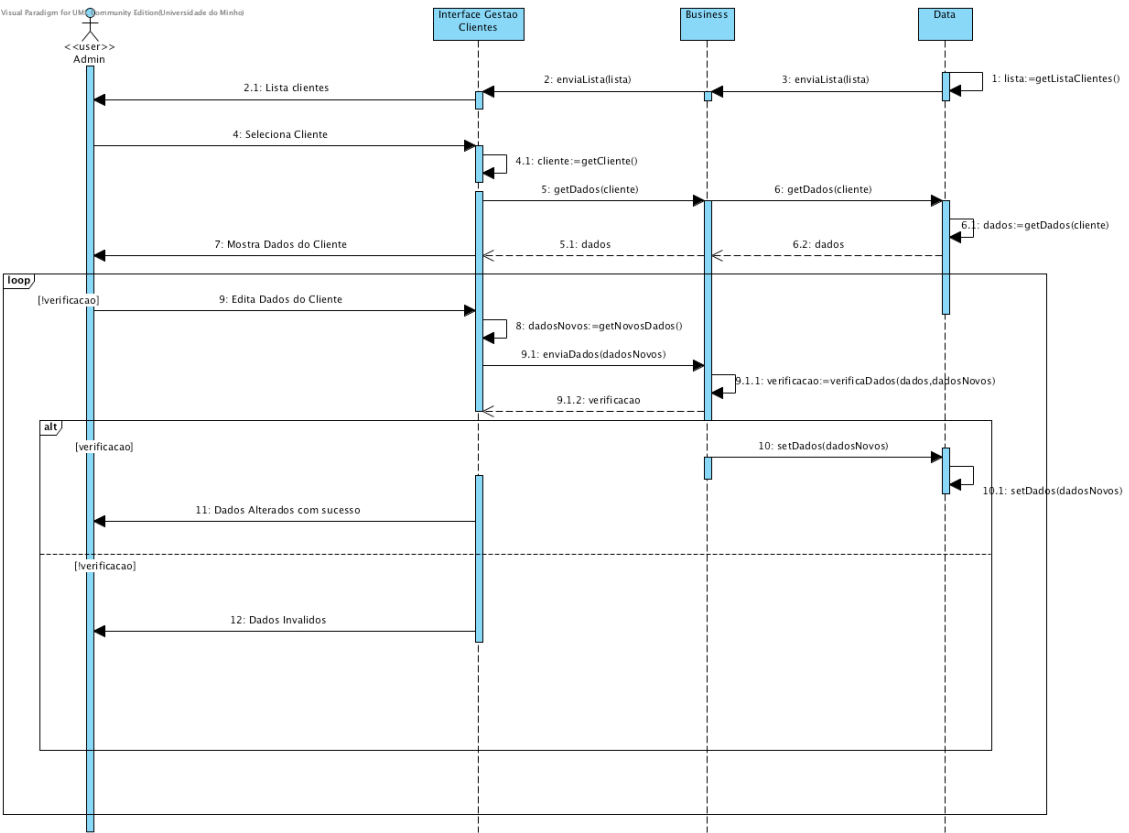
Logout



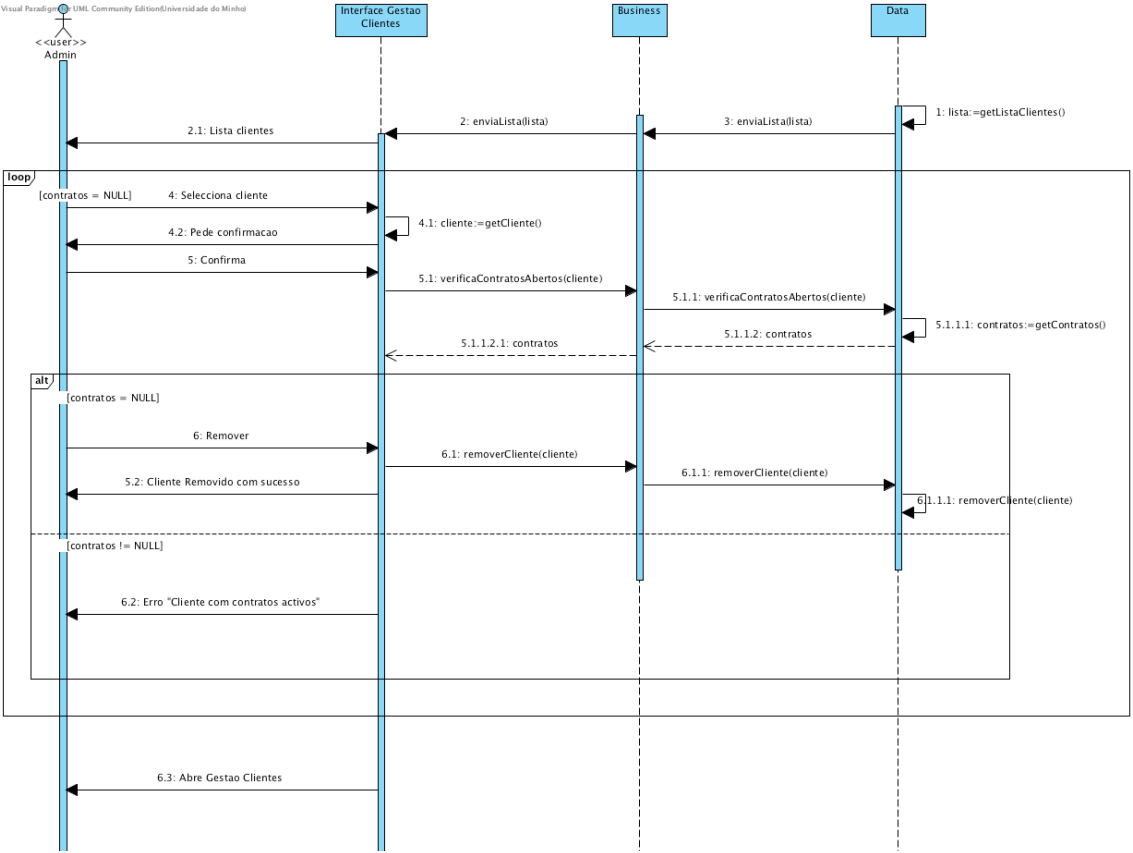
Adicionar Cliente



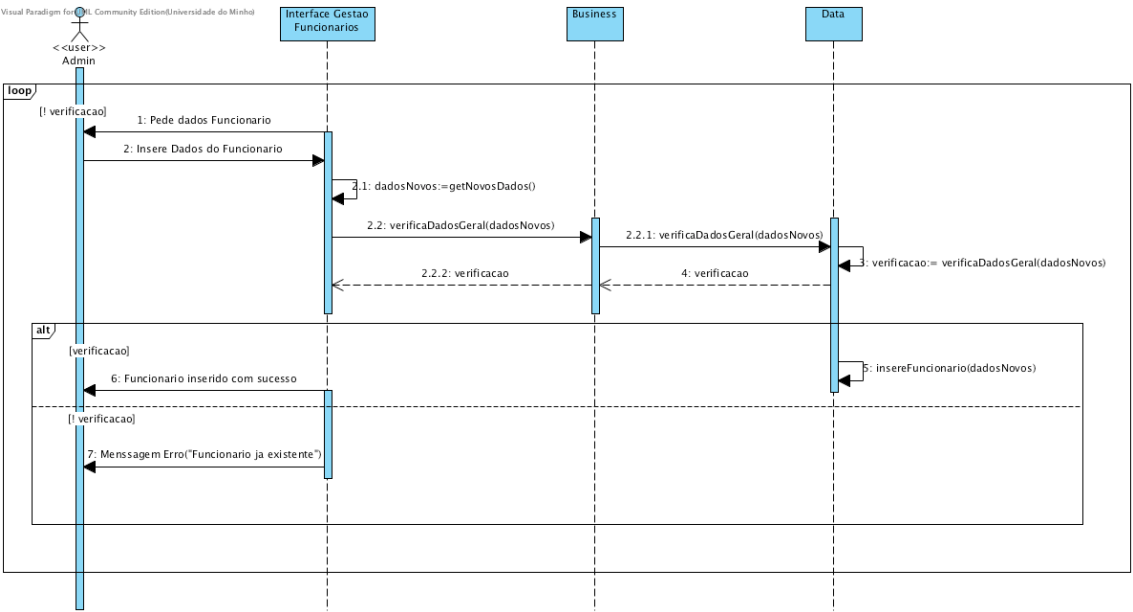
Editar Cliente



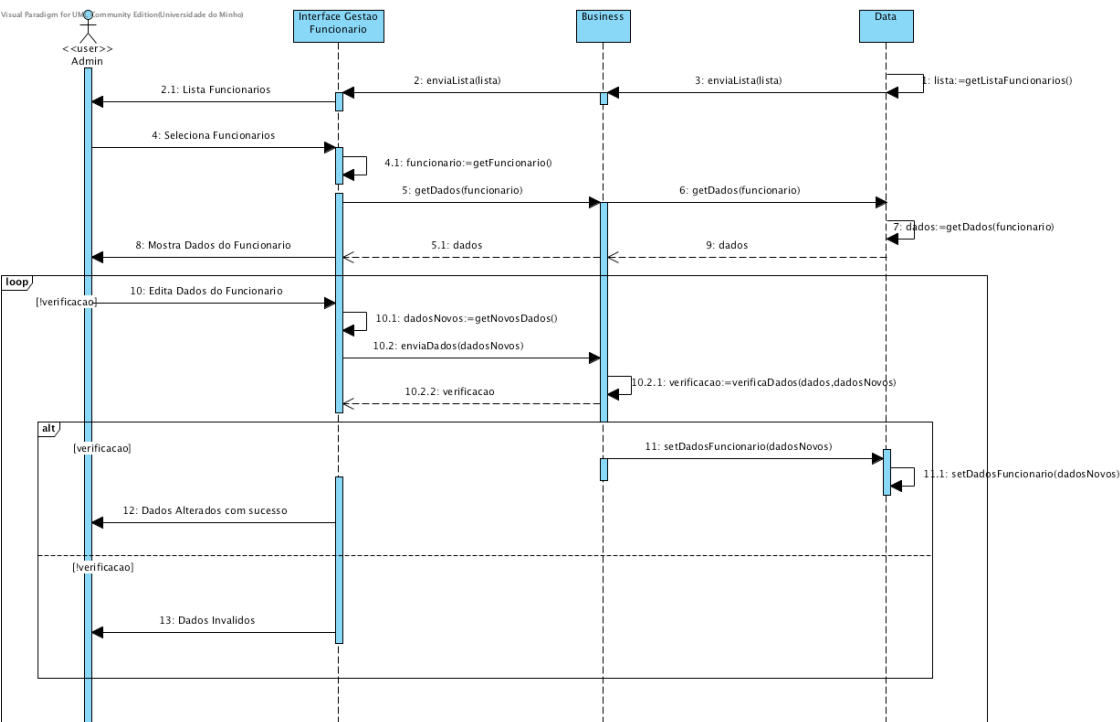
Remover Cliente



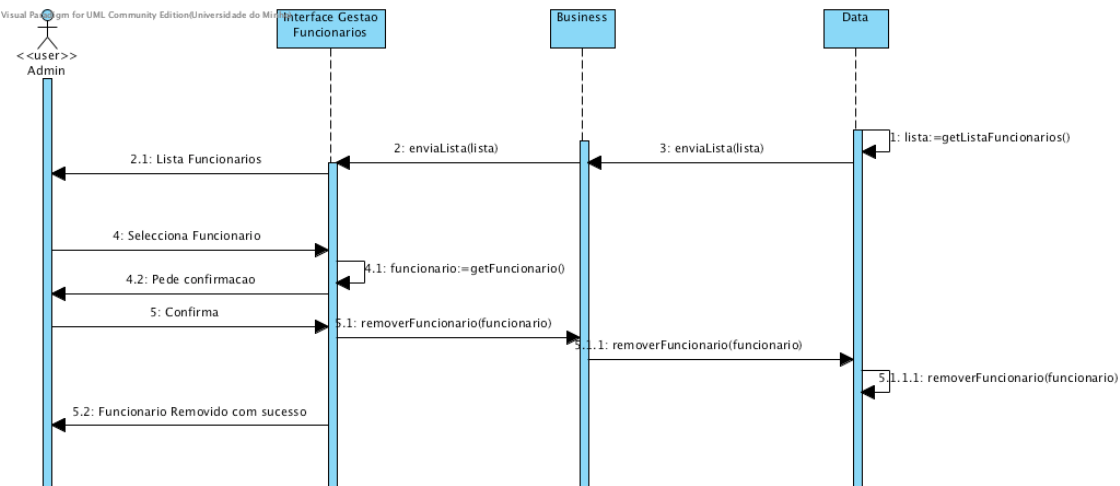
Adicionar Funcionário



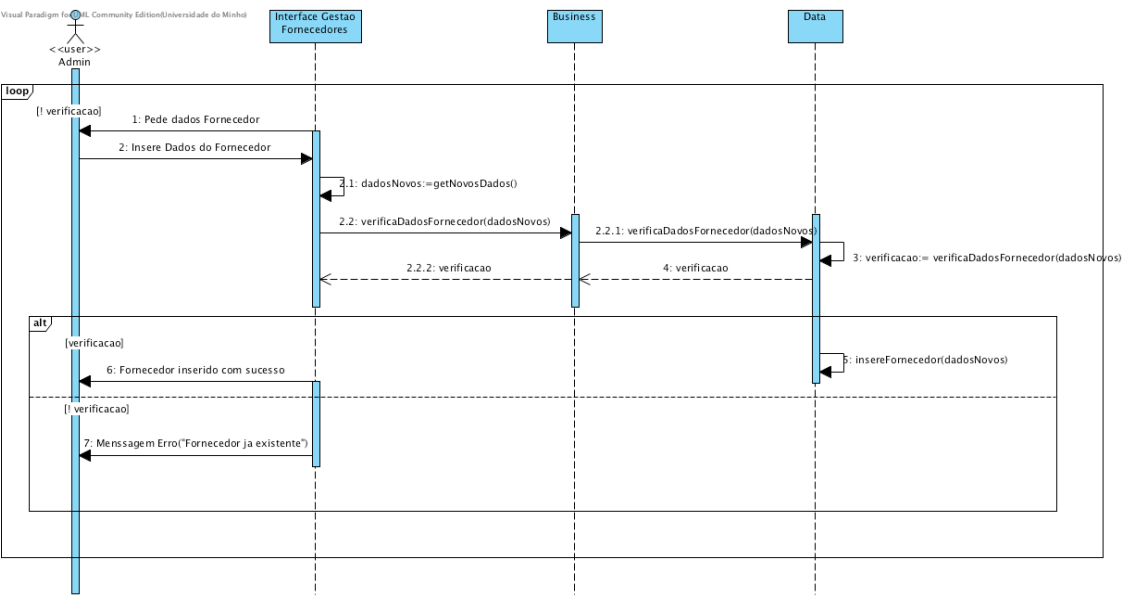
Editar Funcionário



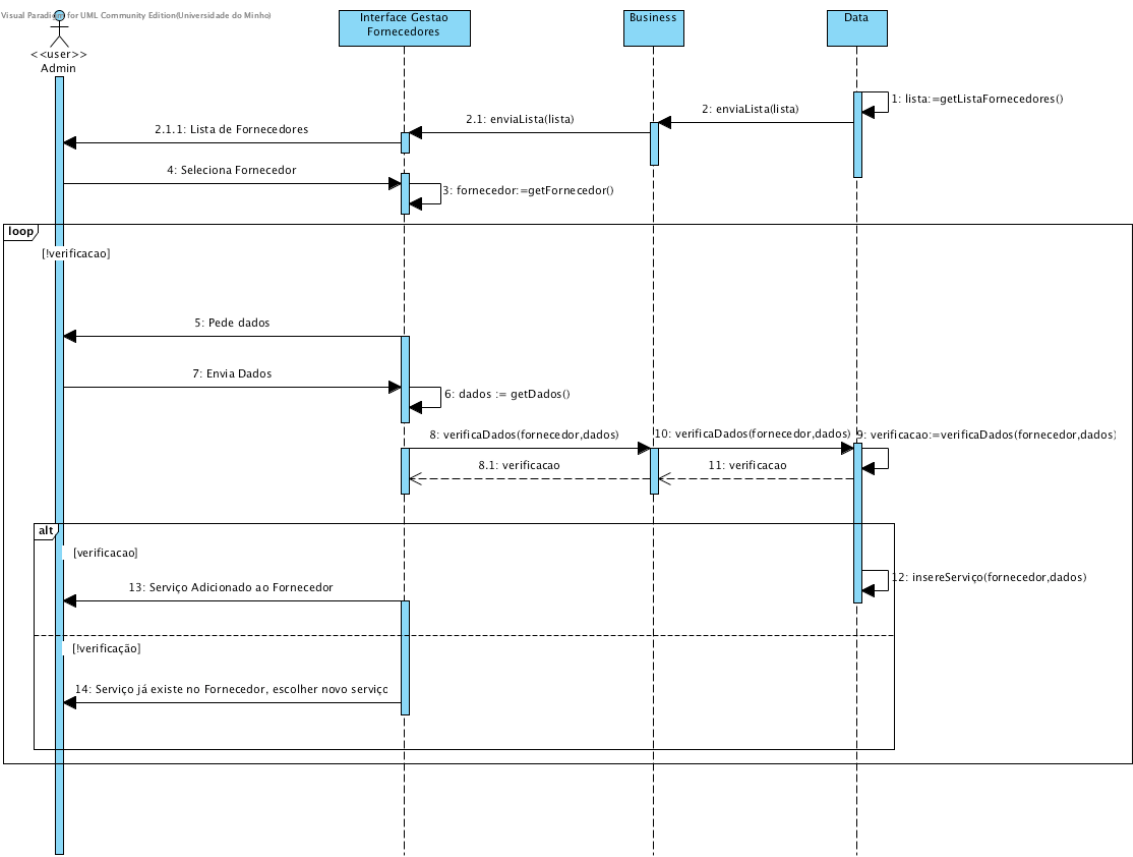
Remover Funcionário



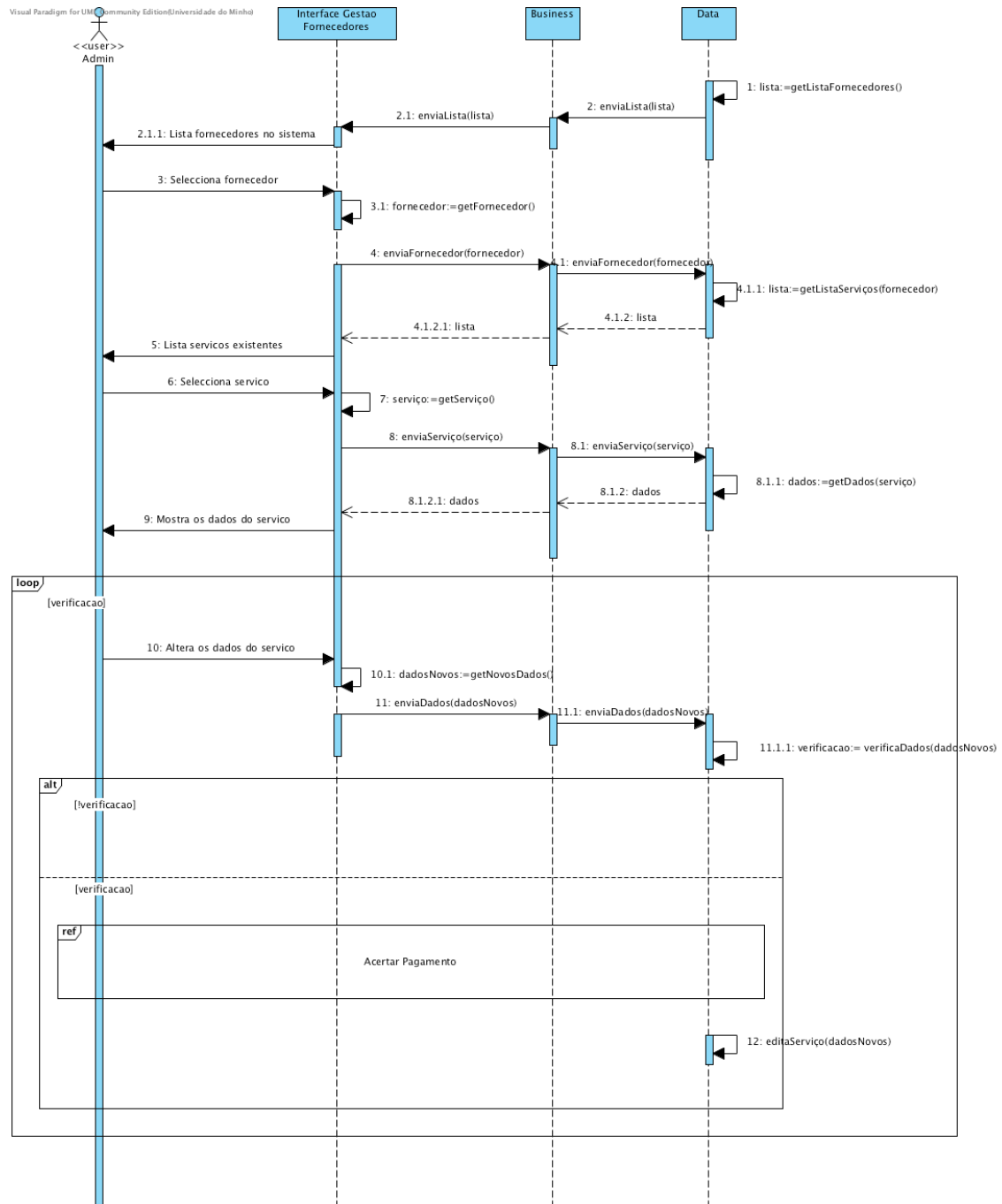
Adicionar Fornecedor



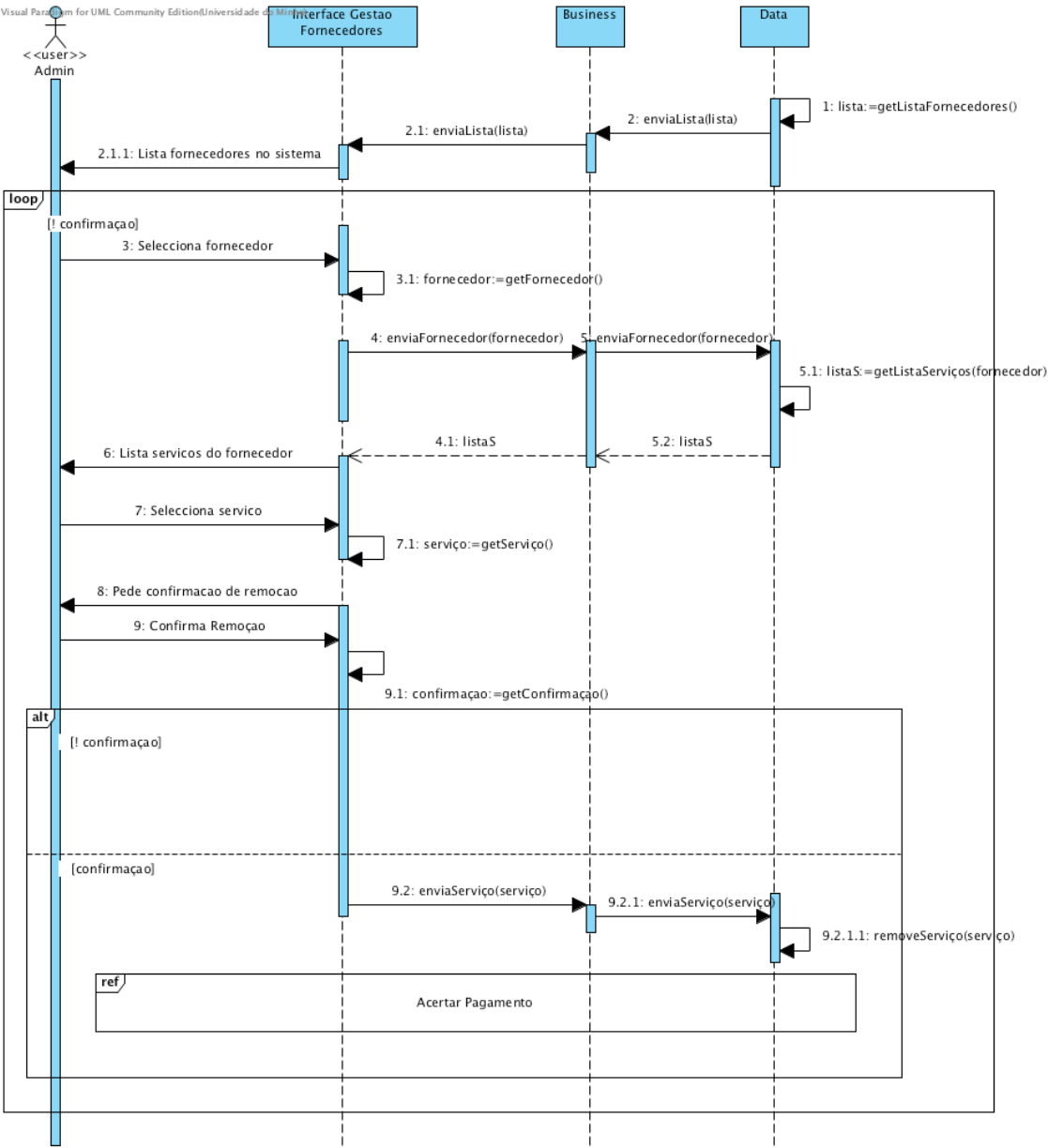
Adicionar Serviço



Visual Paradigm for UML Community Edition(Universidade do Minho)

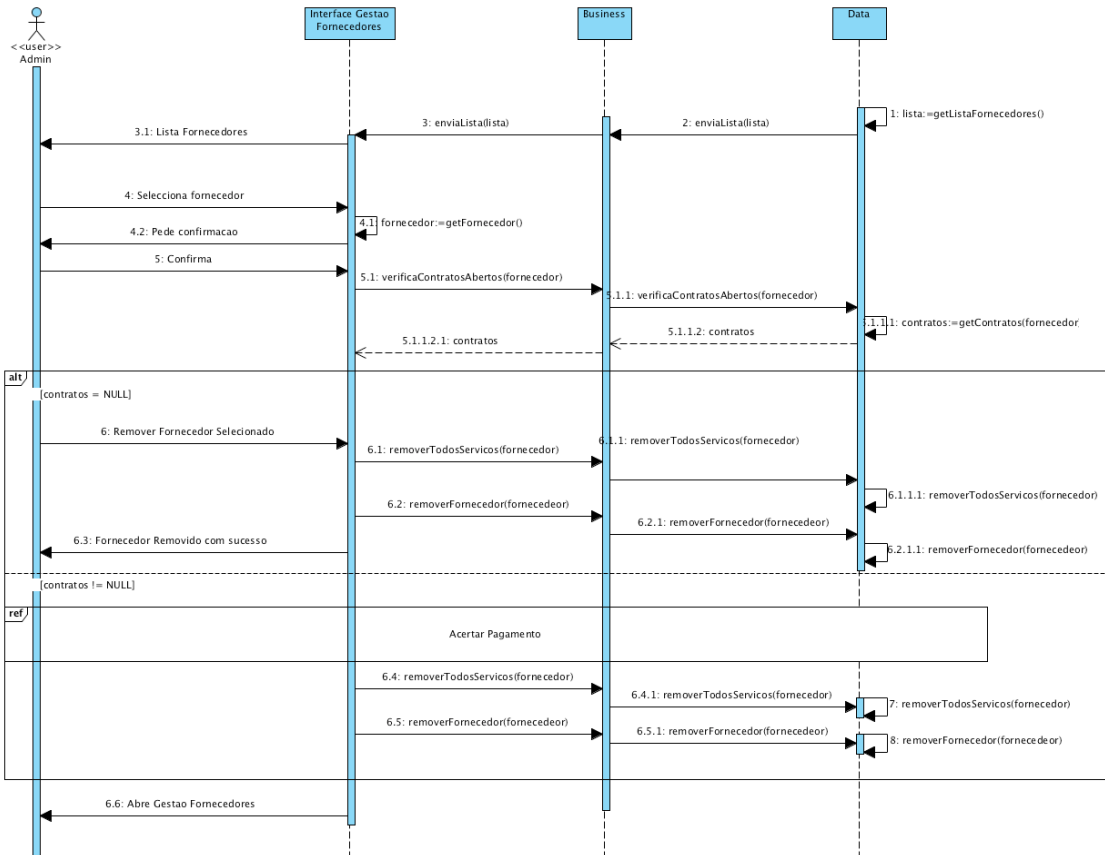


Remover Serviço

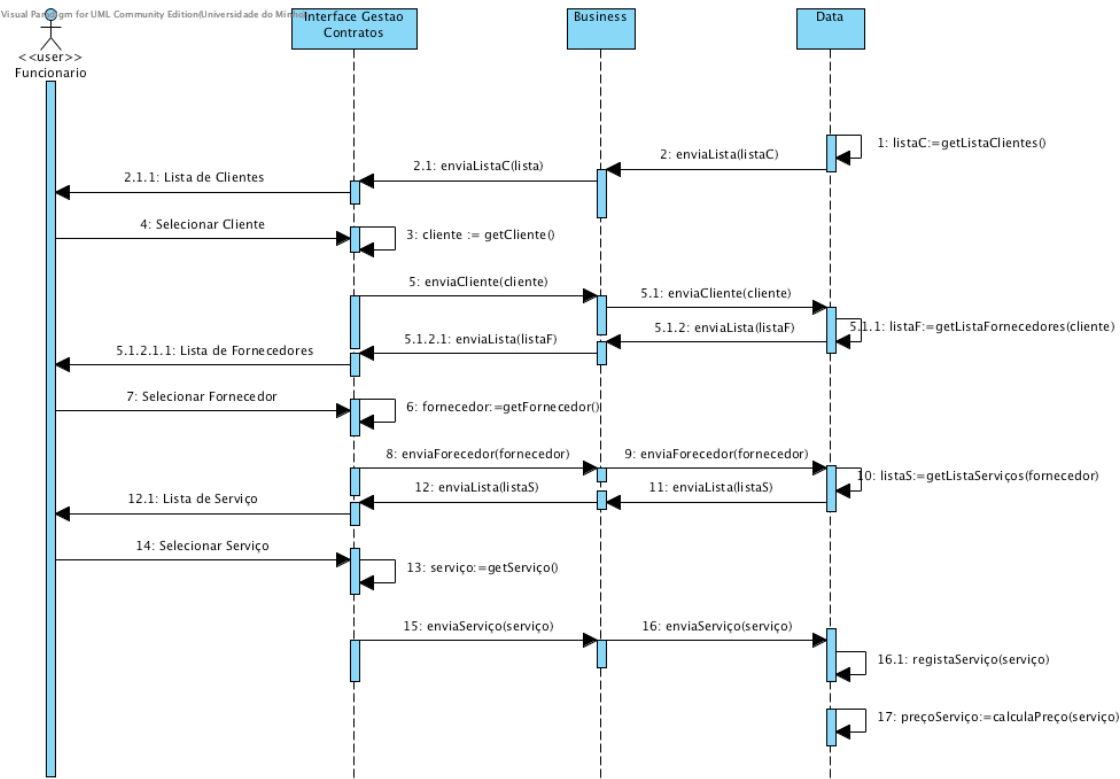


Remover Fornecedor

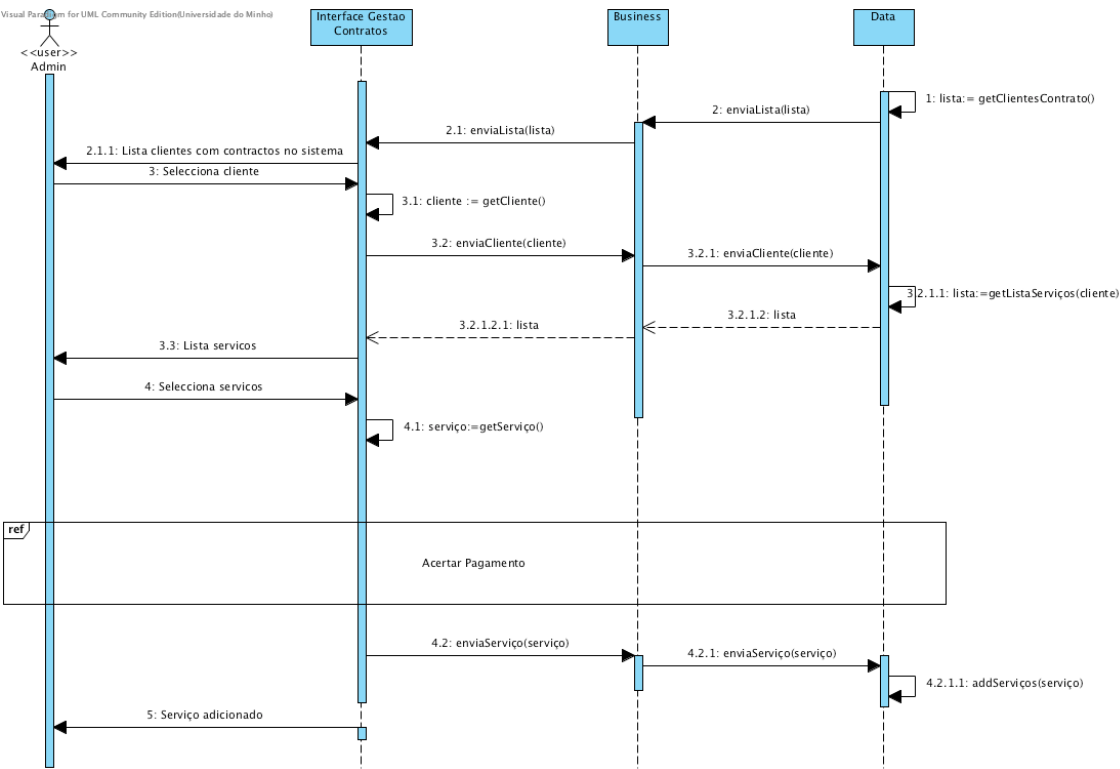
UML Paradigm for UML Community Edition/Universidade do Minho



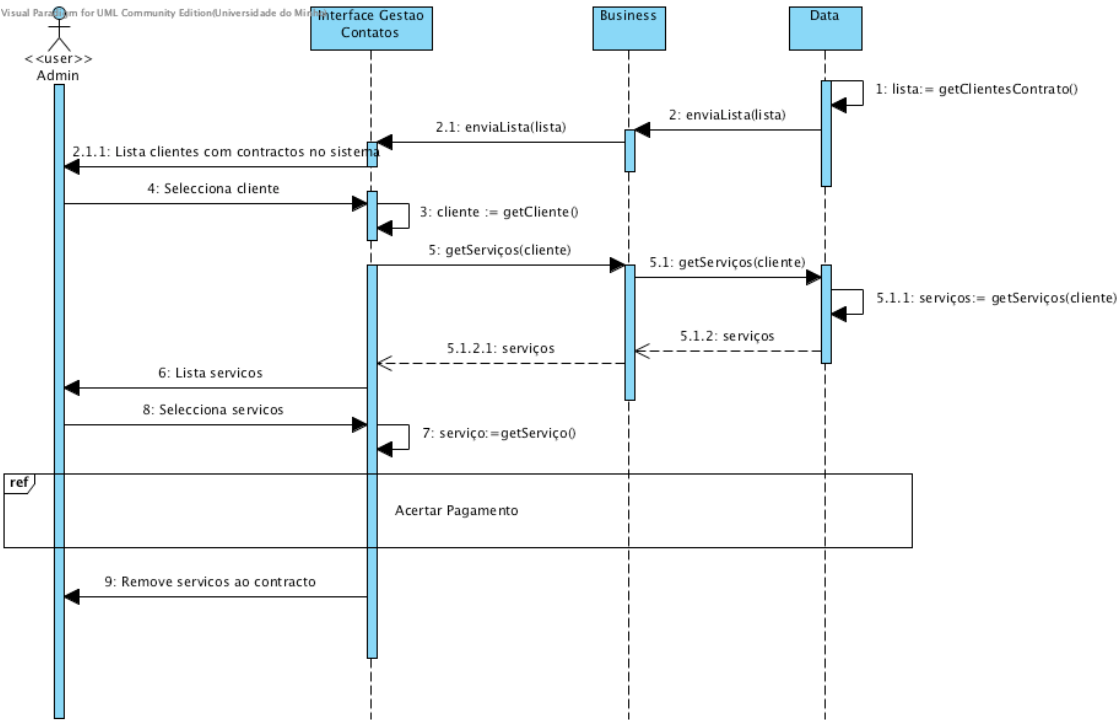
Abrir Contrato



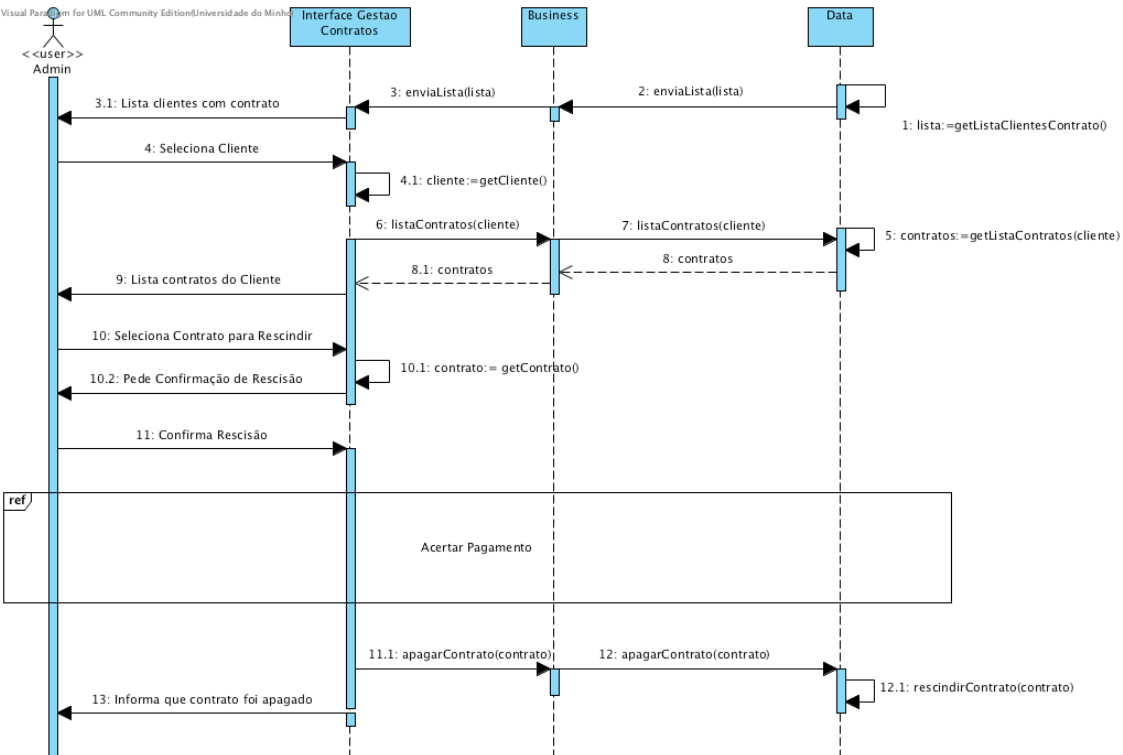
Adicionar Serviço



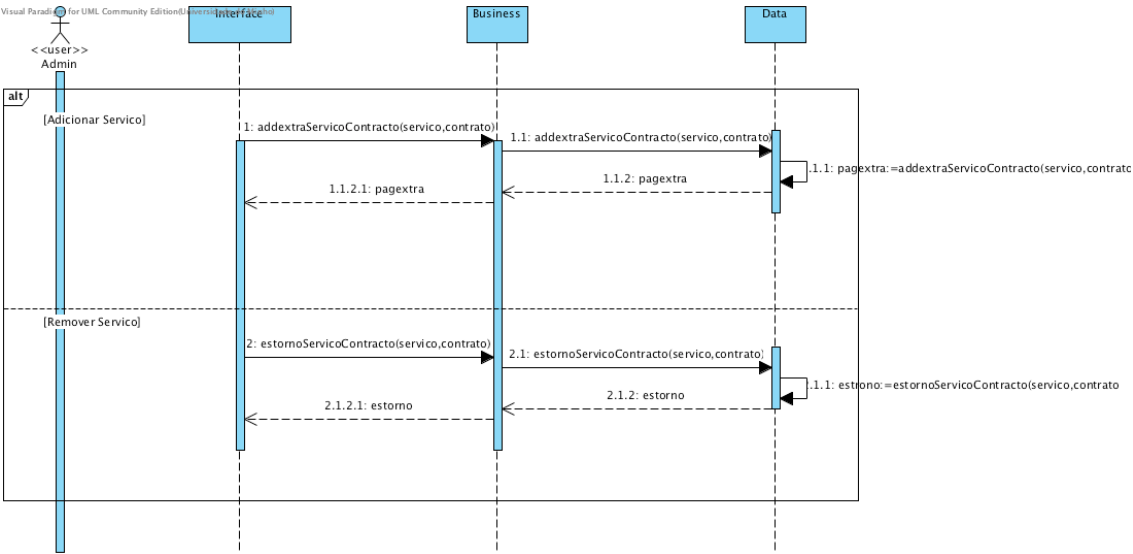
Remover Serviço



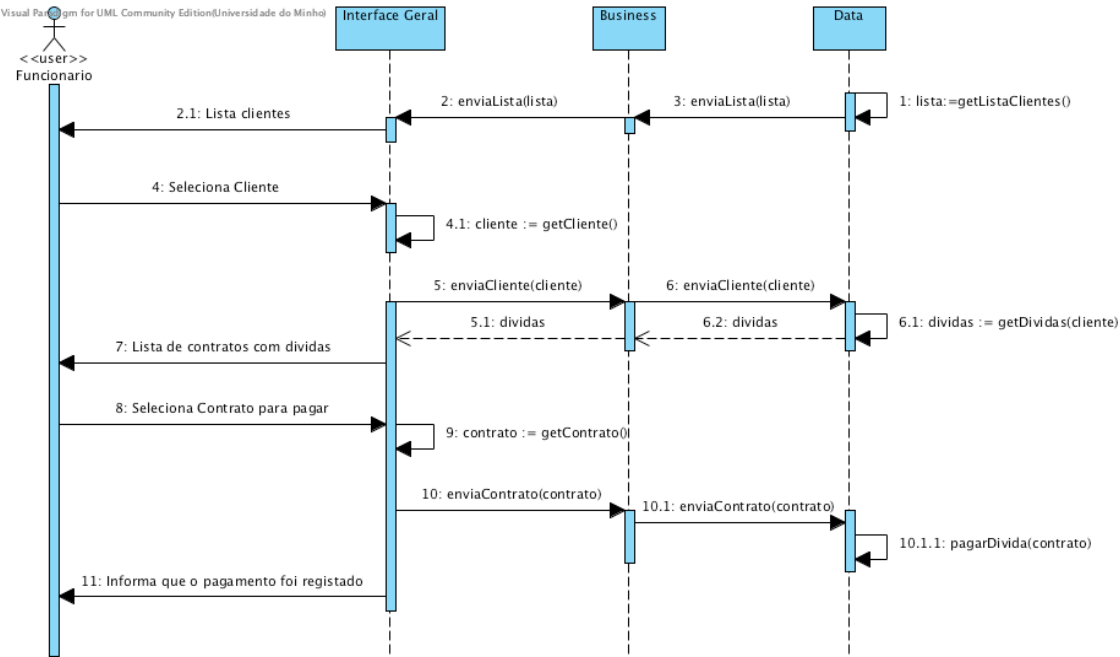
Rescindir Contrato



Acertar Pagamento



Gerar Pagamento



Ver Contrato

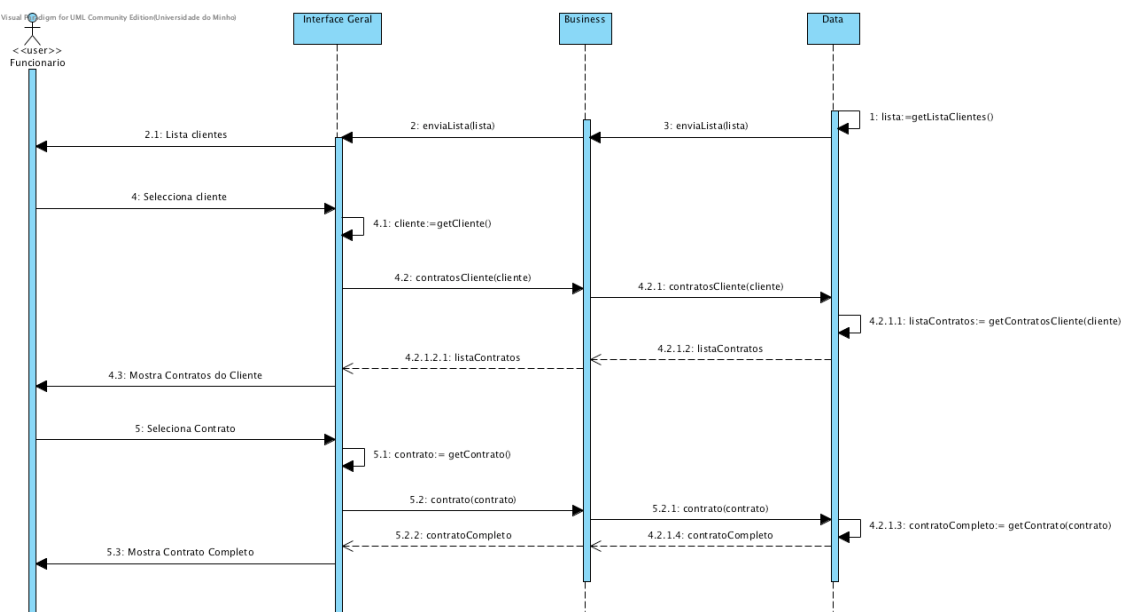


Diagrama de Classes

