

# Use Case Details

Version •



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eze\_9

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## Sdental

*Package in package "*

Sdental  
Version Phase 1.0 Proposed  
eze\_9 created on 1/8/2022. Last modified 1/8/2022

## Negocio

*Package in package 'Sdental'*

Negocio  
Version 1.0 Phase 1.0 Proposed  
Rody created on 25/5/2022. Last modified 25/5/2022

## BMP

*Package in package 'Negocio'*

BMP  
Version 1.0 Phase 1.0 Proposed  
Rody created on 25/5/2022. Last modified 25/5/2022

## ABM Cliente

*Package in package 'BMP'*

ABM Cliente  
Version 1.0 Phase 1.0 Proposed  
Rody created on 26/5/2022. Last modified 26/5/2022

## ABM Cliente diagram

*Activity diagram in package 'ABM Cliente'*

ABM Cliente  
Version 1.0  
Rody created on 26/5/2022. Last modified 26/5/2022

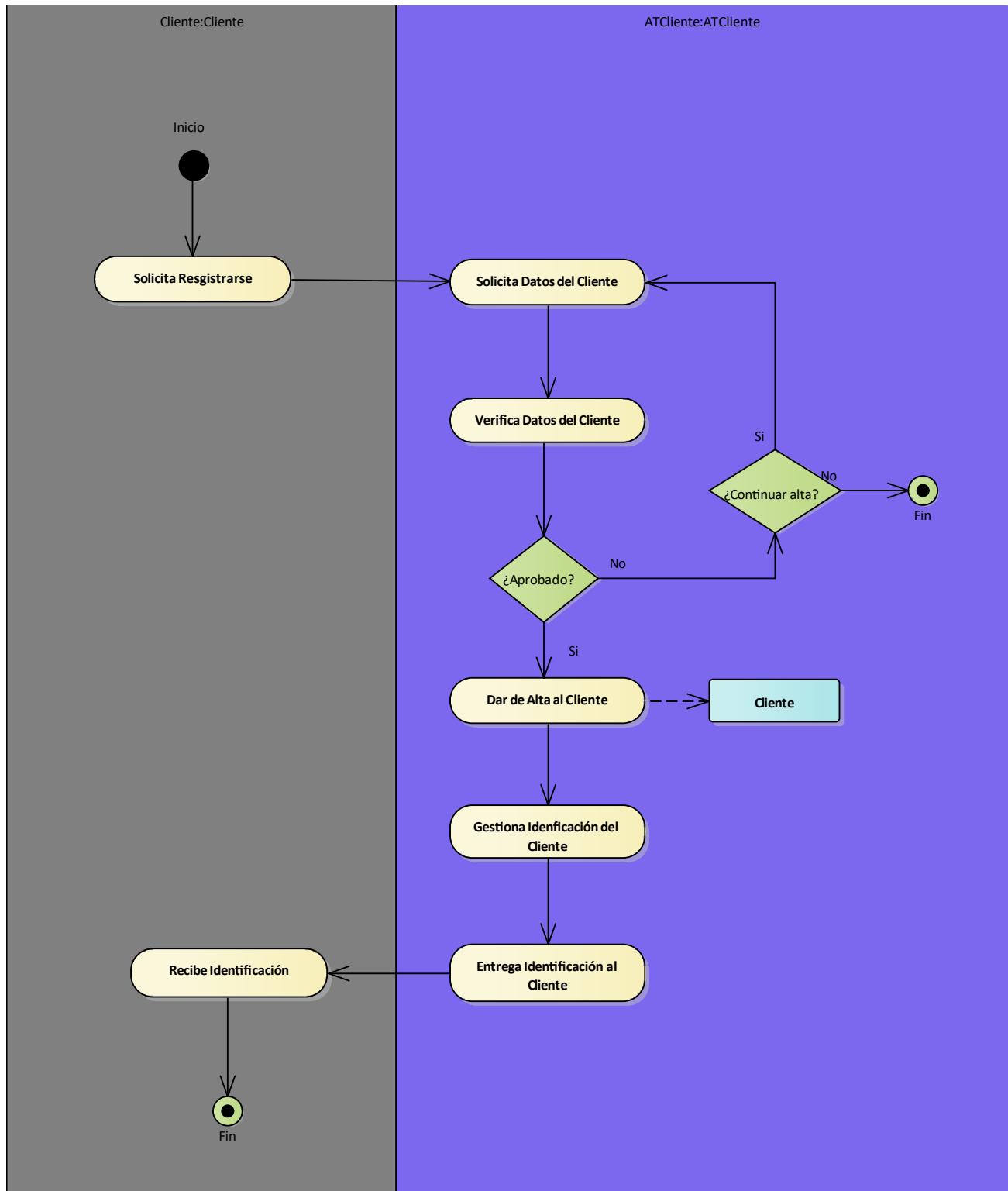


Figure 1: ABM Cliente

## Gestion de Turnos

Package in package 'BMP'

Gestion de Turnos  
Version 1.0 Phase 1.0 Proposed  
Rody created on 26/5/2022. Last modified 26/5/2022

### Gestion de turnos diagram

Activity diagram in package 'Gestion de Turnos'

Gestion de turnos  
Version 1.0  
Rody created on 26/5/2022. Last modified 26/5/2022

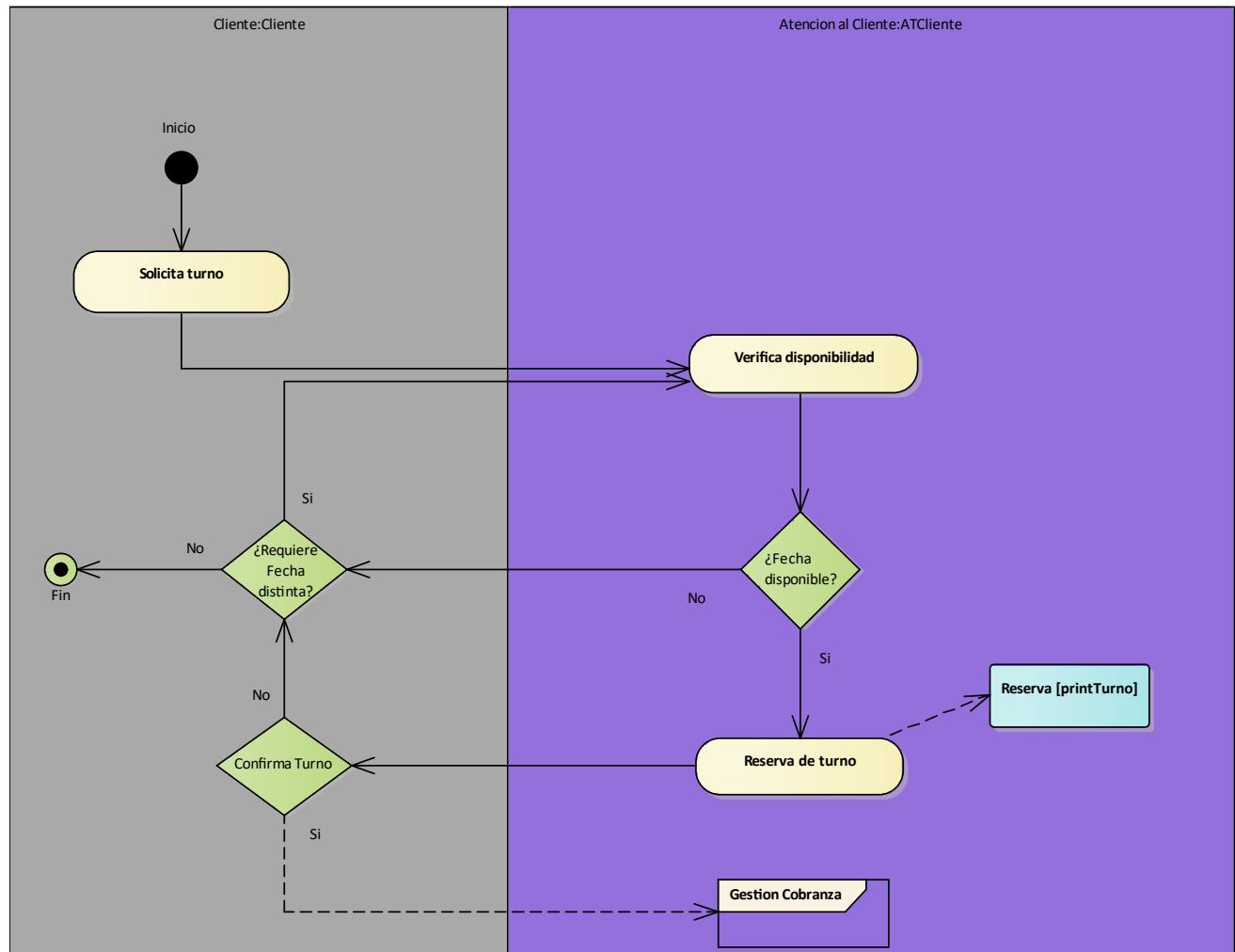


Figure 2: Gestion de turnos

## Gestion de Compra

Package in package 'BMP'

Gestion de Compra  
Version 1.0 Phase 1.0 Proposed  
Rody created on 26/5/2022. Last modified 15/7/2022

### Gestion de compra diagram

Activity diagram in package 'Gestion de Compra'

Gestion de compra  
Version 1.0  
Rody created on 26/5/2022. Last modified 27/5/2022

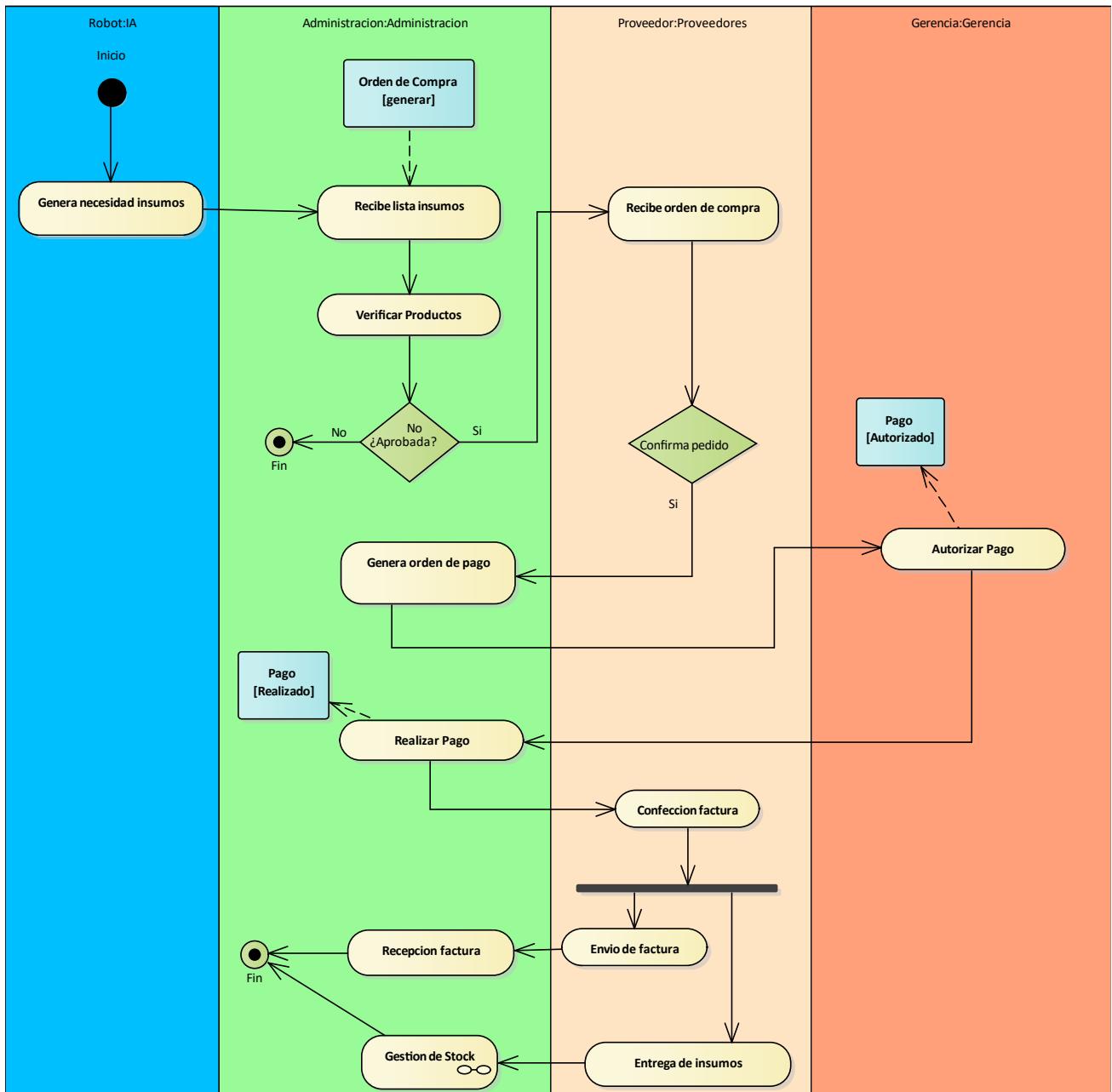


Figure 3: Gestion de compra

## GestionServicios

Package in package 'BMP'

GestionServicios  
Version 1.0 Phase 1.0 Proposed  
Rody created on 26/5/2022. Last modified 26/5/2022

### GestionServicios diagram

Activity diagram in package 'GestionServicios'

GestionServicios  
Version 1.0  
Rody created on 26/5/2022. Last modified 27/5/2022

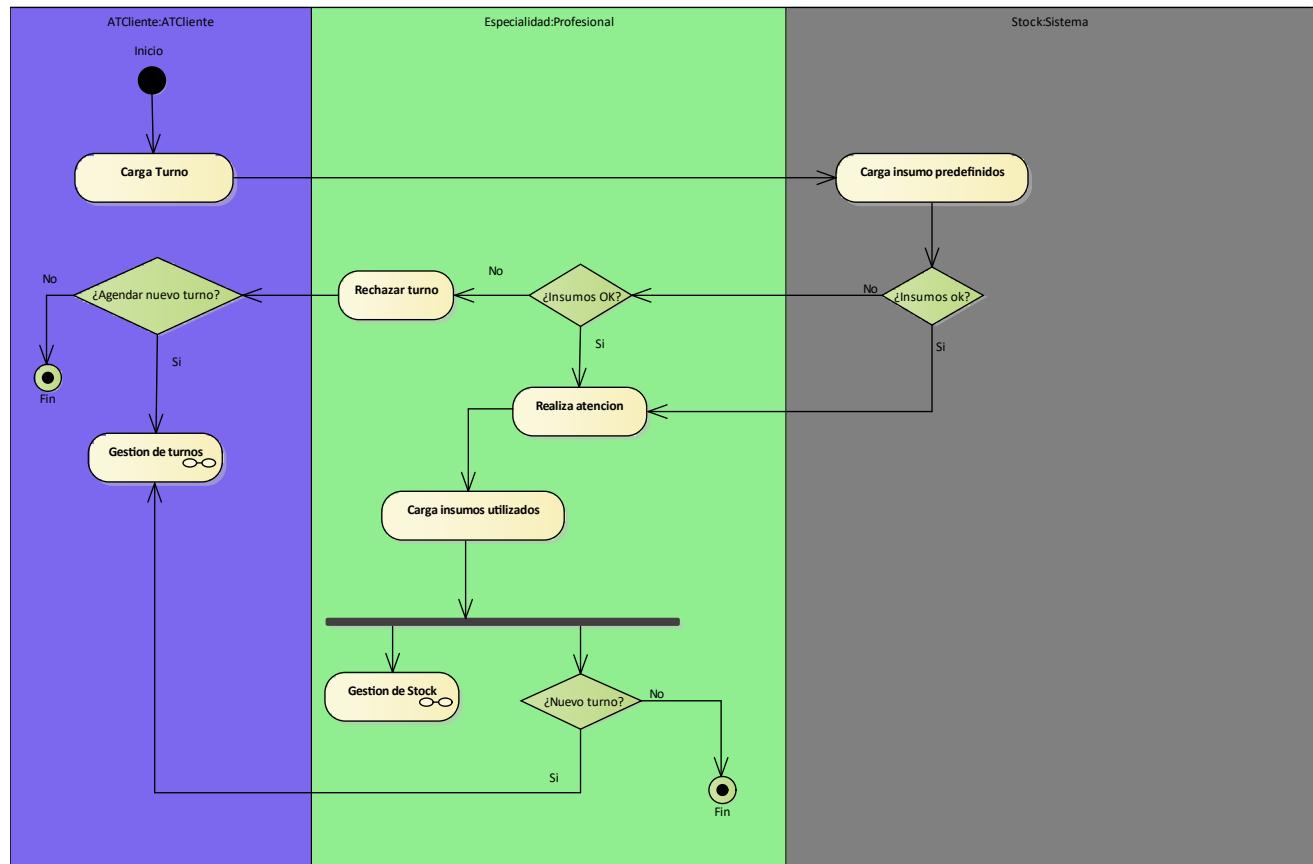


Figure 4: GestionServicios

## Gestion de Stock

Package in package 'BMP'

Gestion de Stock  
Version 1.0 Phase 1.0 Proposed  
Rody created on 26/5/2022. Last modified 26/5/2022

### Gestion de Stock diagram

Activity diagram in package 'Gestion de Stock'

Gestion de Stock  
Version 1.0  
Rody created on 26/5/2022. Last modified 27/5/2022

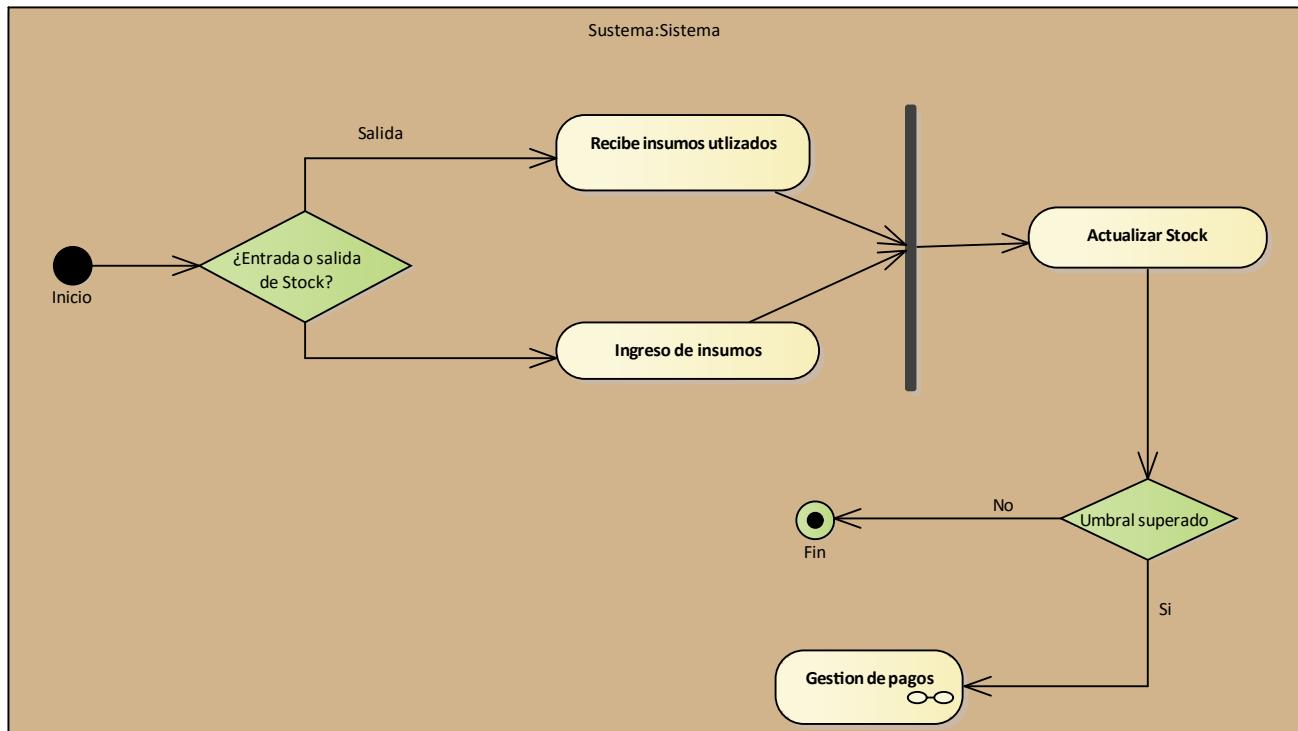


Figure 5: Gestion de Stock

## ABM System User

Package in package 'BMP'

ABM System User  
Version 1.0 Phase 1.0 Proposed  
Rody created on 25/5/2022. Last modified 25/5/2022

### ABM System User diagram

Activity diagram in package 'ABM System User'

ABM System User  
Version 1.0  
Rody created on 25/5/2022. Last modified 25/5/2022

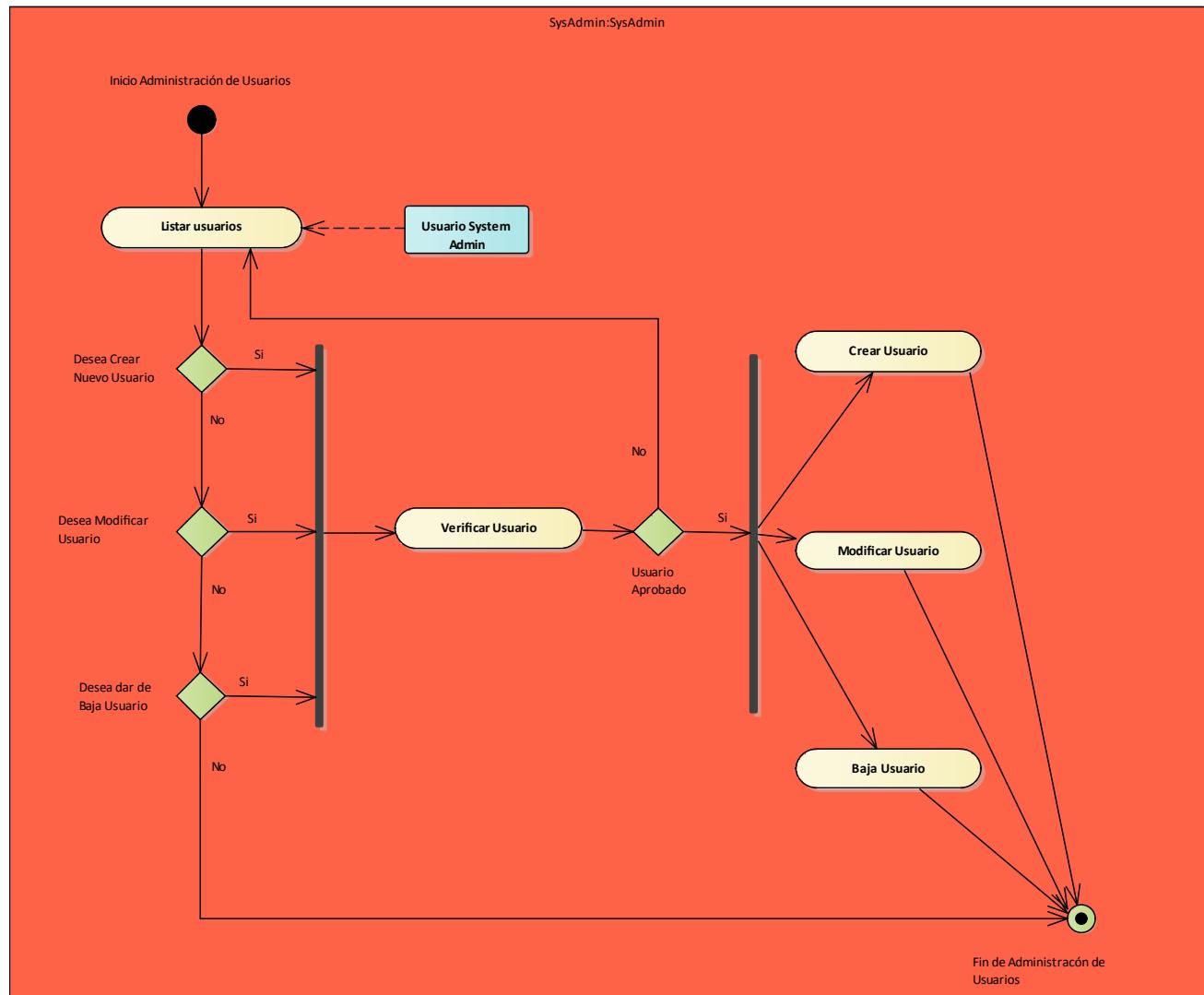


Figure 6: ABM System User

## Gestion Cobranza

Package in package 'BMP'

Gestion Cobranza  
Version 1.0 Phase 1.0 Proposed  
Rody created on 26/5/2022. Last modified 26/5/2022

### Gestion Cobranza diagram

Activity diagram in package 'Gestion Cobranza'

Gestion Cobranza  
Version 1.0  
Rody created on 26/5/2022. Last modified 27/5/2022

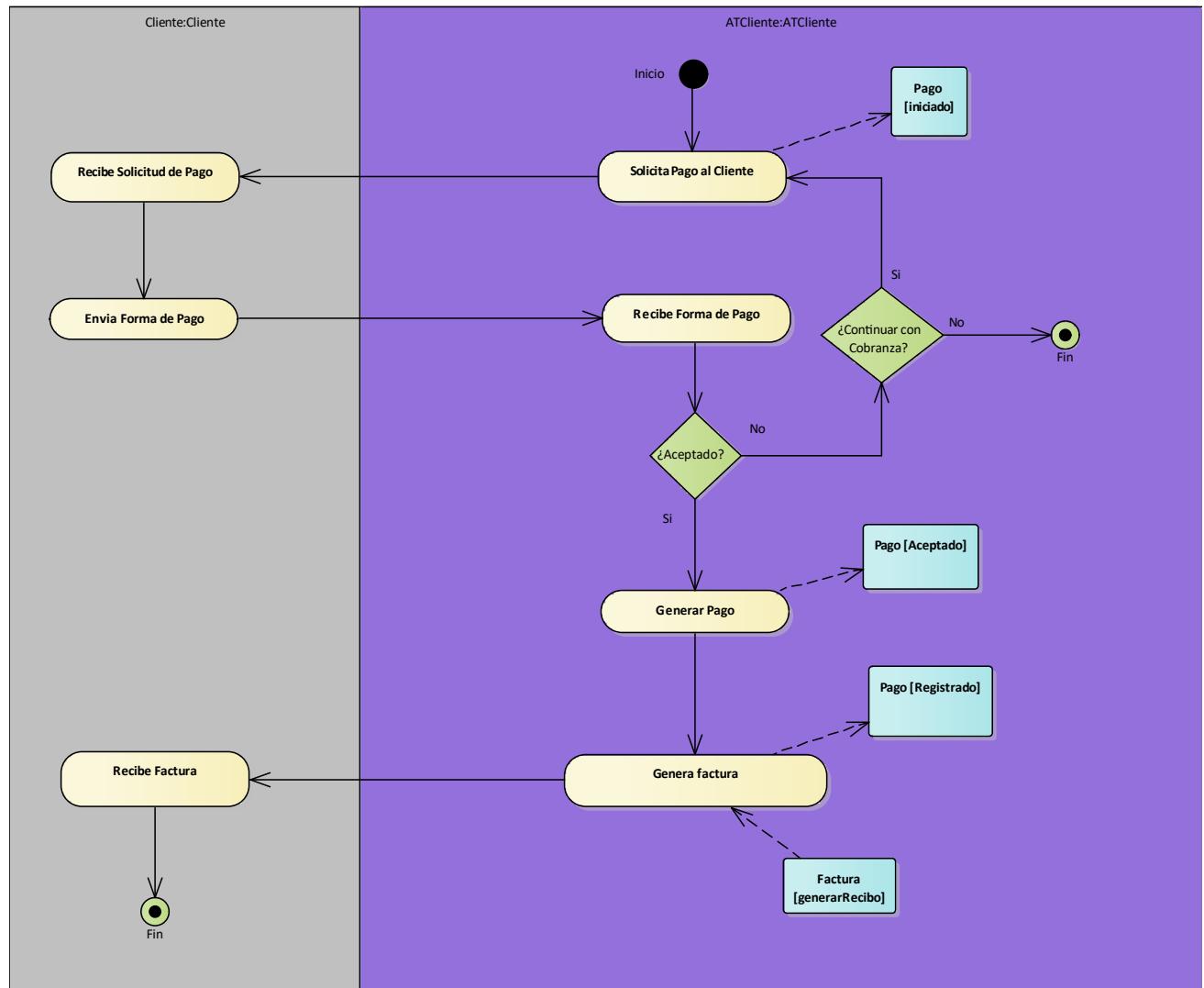


Figure 7: Gestion Cobranza

## Casos de uso del negocio

Package in package 'Negocio'

Casos de uso del negocio  
Version 1.0 Phase 1.0 Proposed  
Rody created on 25/5/2022. Last modified 25/5/2022

### Casos de uso del negocio diagram

Use Case diagram in package 'Casos de uso del negocio'

Casos de uso del negocio  
Version 1.0  
Rody created on 1/7/2022. Last modified 15/7/2022



Figure 8: Casos de uso del negocio

## **Confirmar Insumos**

*UseCase in package 'Casos de uso del negocio'*

Confirmar Insumos  
Version 1.0 Phase 1.0 Proposed  
Rody created on 1/7/2022. Last modified 15/7/2022

### CONNECTORS

- ↗ **Association** Unspecified
  - From: Object : Object, Public
  - To: Confirmar Insumos : UseCase, Public

## **Definir humrales STOCK**

*UseCase in package 'Casos de uso del negocio'*

Definir humrales STOCK  
Version 1.0 Phase 1.0 Proposed  
Rody created on 1/7/2022. Last modified 1/7/2022

### CONNECTORS

- ↗ **Association** Unspecified
  - From: Object : Object, Public
  - To: Definir humrales STOCK : UseCase, Public
- ↗ **Association** Unspecified
  - From: Object : Object, Public
  - To: Definir humrales STOCK : UseCase, Public

## **Entrega de Insumos**

*UseCase in package 'Casos de uso del negocio'*

Entrega de Insumos  
Version 1.0 Phase 1.0 Proposed  
Rody created on 1/7/2022. Last modified 1/7/2022

### CONNECTORS

- ↗ **Association** Unspecified
  - From: Object : Object, Public
  - To: Entrega de Insumos : UseCase, Public

## **Generar Listado de Insumos Faltantes**

*UseCase in package 'Casos de uso del negocio'*

Generar Listado de Insumos Faltantes

Version 1.0 Phase 1.0 Proposed  
Rody created on 1/7/2022. Last modified 1/7/2022

## CONNECTORS

↗ **Association** Unspecified  
From: Object : Object, Public  
To: Generar Listado de Insumos Faltantes : UseCase, Public

## Generar Notificaciones

UseCase in package 'Casos de uso del negocio'

Generar Notificaciones  
Version 1.0 Phase 1.0 Proposed  
Rody created on 1/7/2022. Last modified 1/7/2022

## CONNECTORS

↗ **Association** Unspecified  
From: Object : Object, Public  
To: Generar Notificaciones : UseCase, Public

## Gestion de Usuarios

UseCase in package 'Casos de uso del negocio'

Gestion de Usuarios  
Version 1.0 Phase 1.0 Proposed  
Rody created on 1/7/2022. Last modified 15/7/2022

## CONNECTORS

↗ **Association** Unspecified  
From: Object : Object, Public  
To: Gestion de Usuarios : UseCase, Public

## Gestionar Aprobaciones

UseCase in package 'Casos de uso del negocio'

Gestionar Aprobaciones  
Version 1.0 Phase 1.0 Proposed  
Rody created on 1/7/2022. Last modified 1/7/2022

## CONNECTORS

↗ **Association** Unspecified  
From: Object : Object, Public  
To: Gestionar Aprobaciones : UseCase, Public

## Gestionar Clientes

UseCase in package 'Casos de uso del negocio'

Gestionar Clientes  
Version 1.0 Phase 1.0 Proposed  
Rody created on 1/7/2022. Last modified 14/7/2022

CONNECTORS
<p>↗ Association Unspecified From: Object : Object, Public To: Gestionar Clientes : UseCase, Public</p>
<p>↗ Association Unspecified From: Object : Object, Public To: Gestionar Clientes : UseCase, Public</p>

## Gestionar Compra

UseCase in package 'Casos de uso del negocio'

Gestionar Compra  
Version 1.0 Phase 1.0 Proposed  
Rody created on 1/7/2022. Last modified 1/7/2022

CONNECTORS
<p>↗ Association Unspecified From: Object : Object, Public To: Gestionar Compra : UseCase, Public</p>
<p>↗ Association Unspecified From: Object : Object, Public To: Gestionar Compra : UseCase, Public</p>

## Gestionar Stock

UseCase in package 'Casos de uso del negocio'

Gestionar Stock  
Version 1.0 Phase 1.0 Proposed  
Rody created on 1/7/2022. Last modified 1/7/2022

CONNECTORS
<p>↗ Association Unspecified From: Object : Object, Public To: Gestionar Stock : UseCase, Public</p>

## Gestionar Turno

UseCase in package 'Casos de uso del negocio'

Gestionar Turno

Version 1.0 Phase 1.0 Proposed

Rody created on 1/7/2022. Last modified 1/7/2022

### CONNECTORS

↗ Association Unspecified  
From: Object : Object, Public  
To: Gestionar Turno : UseCase, Public

↗ Association Unspecified  
From: Object : Object, Public  
To: Gestionar Turno : UseCase, Public

## Prestar Servicio

UseCase in package 'Casos de uso del negocio'

Prestar Servicio

Version 1.0 Phase 1.0 Proposed

Rody created on 1/7/2022. Last modified 1/7/2022

### CONNECTORS

↗ Association Unspecified  
From: Object : Object, Public  
To: Prestar Servicio : UseCase, Public

↗ Association Unspecified  
From: Object : Object, Public  
To: Prestar Servicio : UseCase, Public

## Validar Humbrales STOCK

UseCase in package 'Casos de uso del negocio'

Validar Humbrales STOCK

Version 1.0 Phase 1.0 Proposed

Rody created on 1/7/2022. Last modified 1/7/2022

### CONNECTORS

↗ Association Unspecified  
From: Object : Object, Public  
To: Validar Humbrales STOCK : UseCase, Public



## Hardware

Package in package 'Negocio'

Hardware  
Version 1.0 Phase 1.0 Proposed  
Rody created on 25/5/2022. Last modified 25/5/2022

## Hardware diagram

Component diagram in package 'Hardware'

Hardware  
Version 1.0  
Rody created on 25/5/2022. Last modified 27/5/2022

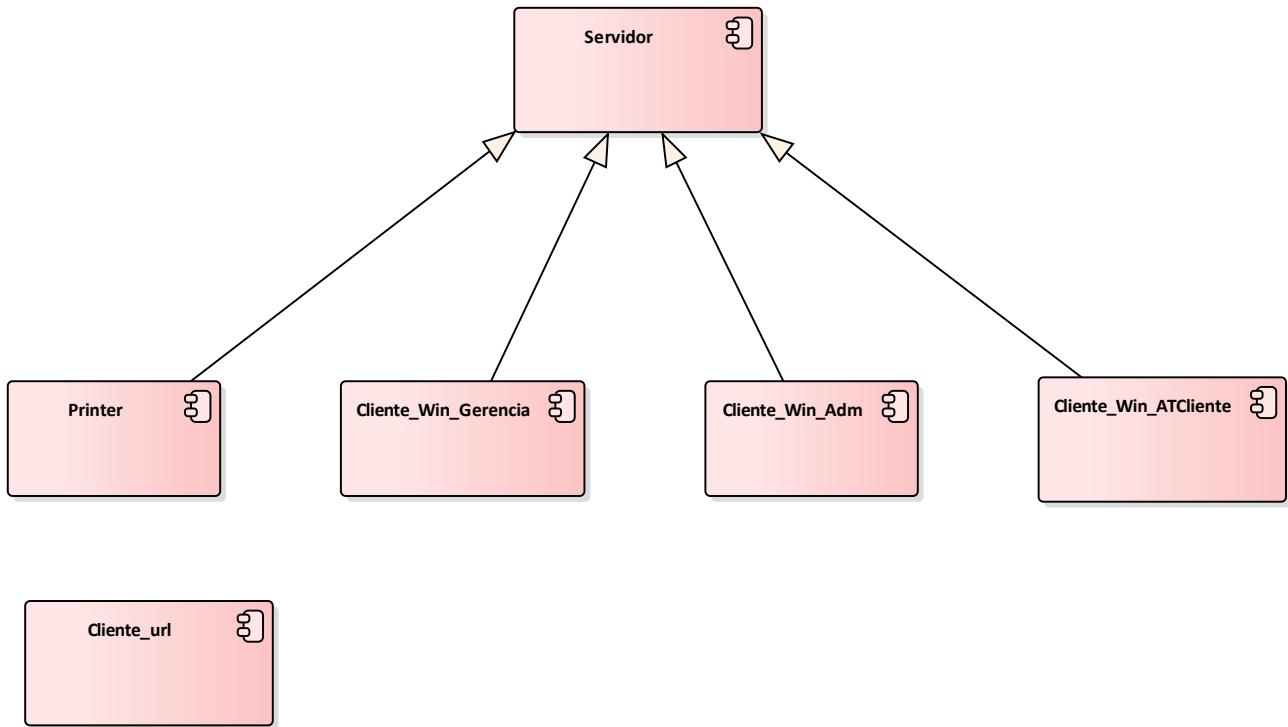


Figure 9: Hardware

## Stakeholders

Package in package 'Negocio'

Stakeholders  
Version 1.0 Phase 1.0 Proposed  
Rody created on 25/5/2022. Last modified 25/5/2022

### Stakeholders diagram

Class diagram in package 'Stakeholders'

Stakeholders  
Version 1.0  
Rody created on 25/5/2022. Last modified 14/7/2022

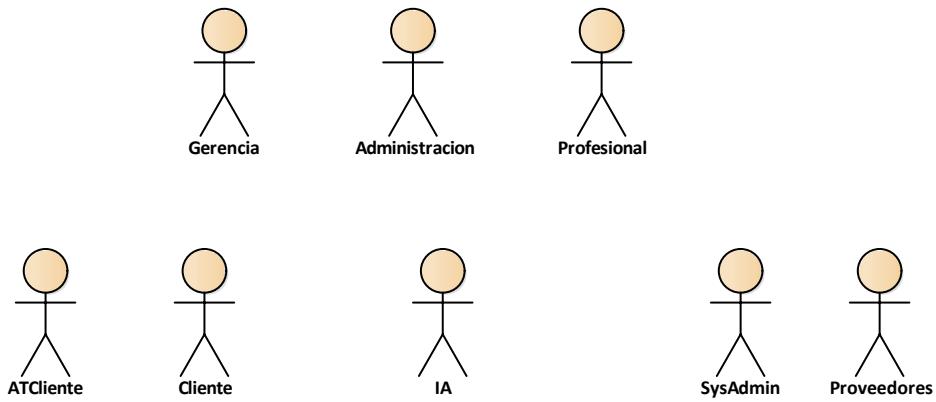


Figure 10: Stakeholders

## 1. Requerimientos

*Package in package 'Sdental'*

1. Requerimientos  
Version 1.0 Phase 1.0 Proposed  
Rody created on 25/5/2022. Last modified 25/5/2022

### 1.1 Requerimientos funcionales

*Package in package '1. Requerimientos'*

1.1 Requerimientos funcionales  
Version 1.0 Phase 1.0 Proposed  
Rody created on 25/5/2022. Last modified 25/5/2022

#### 1.1.1 RF.Usuarios

*Package in package '1.1 Requerimientos funcionales'*

1.1.1 RF.Usuarios  
Version 1.0 Phase 1.0 Proposed  
Rody created on 27/5/2022. Last modified 27/5/2022

#### 1.1.1 RF.Usuarios diagram

*Requirements diagram in package '1.1.1 RF.Usuarios'*

1.1.1 RF.Usuarios  
Version 1.0  
Rody created on 27/5/2022. Last modified 27/5/2022

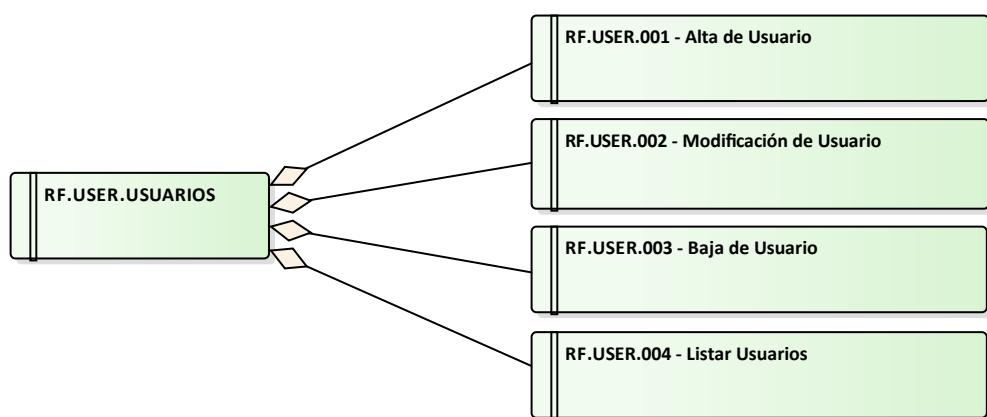


Figure 11: 1.1.1 RF.Usuarios

## 1.1.2 RF.Clientes

Package in package '1.1 Requerimientos funcionales'

1.1.2 RF.Clientes  
Version 1.0 Phase 1.0 Proposed  
Rody created on 27/5/2022. Last modified 27/5/2022

### 1.1.2 RF.Clientes diagram

Requirements diagram in package '1.1.2 RF.Clientes'

1.1.2 RF.Clientes  
Version 1.0  
Rody created on 27/5/2022. Last modified 27/5/2022

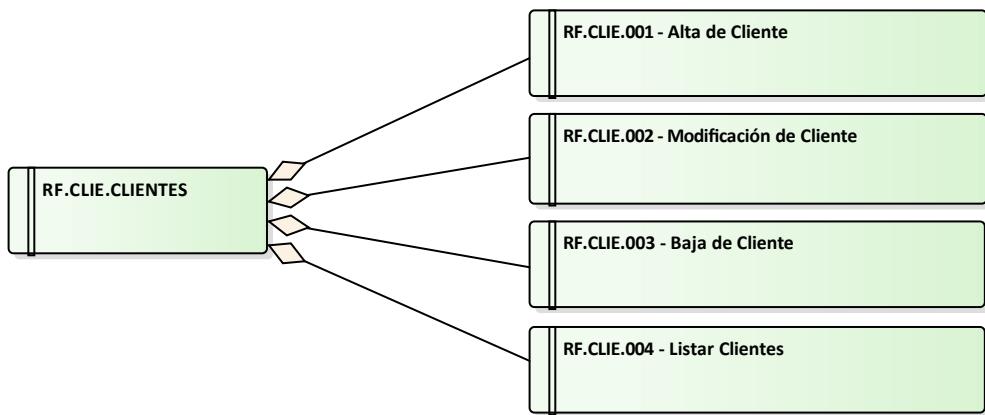


Figure 12: 1.1.2 RF.Clientes

### 1.1.3 RF.Profesionales

Package in package '1.1 Requerimientos funcionales'

1.1.3 RF.Profesionales  
Version 1.0 Phase 1.0 Proposed  
Rody created on 27/5/2022. Last modified 27/5/2022

### 1.1.3 RF.Profesionales diagram

Requirements diagram in package '1.1.3 RF.Profesionales'

1.1.3 RF.Profesionales  
Version 1.0  
Rody created on 27/5/2022. Last modified 27/5/2022

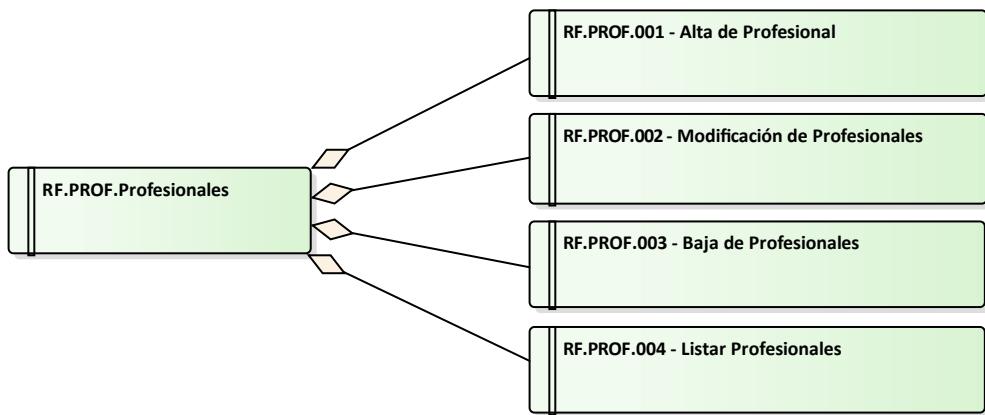


Figure 13: 1.1.3 RF.Profesionales

## 1.1.4 RF.Proveedores

Package in package '1.1 Requerimientos funcionales'

1.1.4 RF.Proveedores  
Version 1.0 Phase 1.0 Proposed  
Rody created on 27/5/2022. Last modified 27/5/2022

### 1.1.4 RF.Proveedores diagram

Requirements diagram in package '1.1.4 RF.Proveedores'

1.1.4 RF.Proveedores  
Version 1.0  
Rody created on 27/5/2022. Last modified 27/5/2022

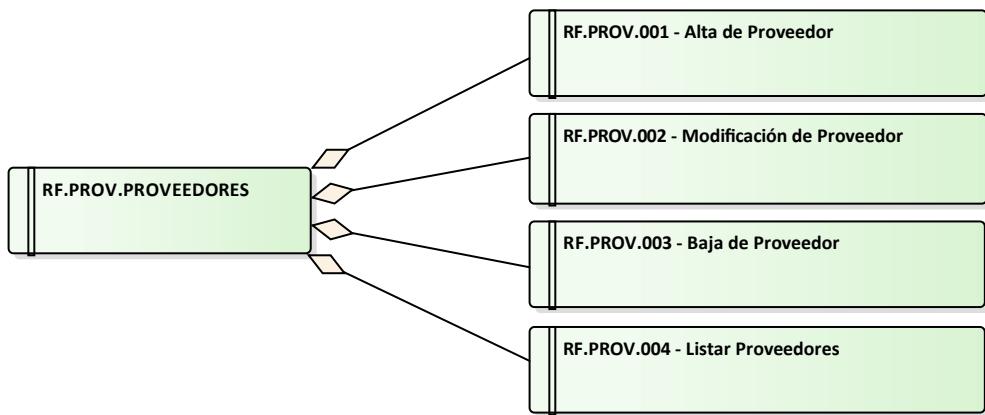


Figure 14: 1.1.4 RF.Proveedores

## 1.1.5 RF.Turnos

Package in package '1.1 Requerimientos funcionales'

1.1.5 RF.Turnos  
Version 1.0 Phase 1.0 Proposed  
Rody created on 27/5/2022. Last modified 27/5/2022

### 1.1.5 RF.Turnos diagram

Requirements diagram in package '1.1.5 RF.Turnos'

1.1.5 RF.Turnos  
Version 1.0  
Rody created on 27/5/2022. Last modified 27/5/2022

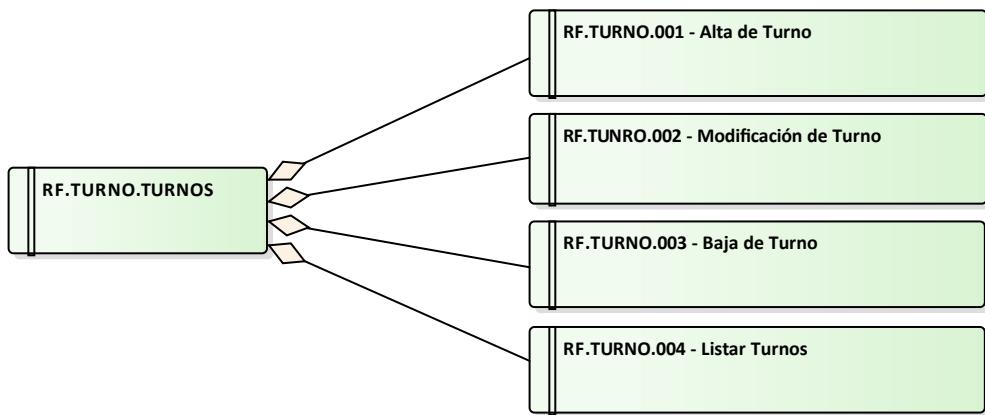


Figure 15: 1.1.5 RF.Turnos

## 1.1.6 RF.Stock

Package in package '1.1 Requerimientos funcionales'

1.1.6 RF.Stock  
Version 1.0 Phase 1.0 Proposed  
Rody created on 27/5/2022. Last modified 27/5/2022

### 1.1.6 RF.Stock diagram

Requirements diagram in package '1.1.6 RF.Stock'

1.1.6 RF.Stock  
Version 1.0  
Rody created on 27/5/2022. Last modified 27/5/2022

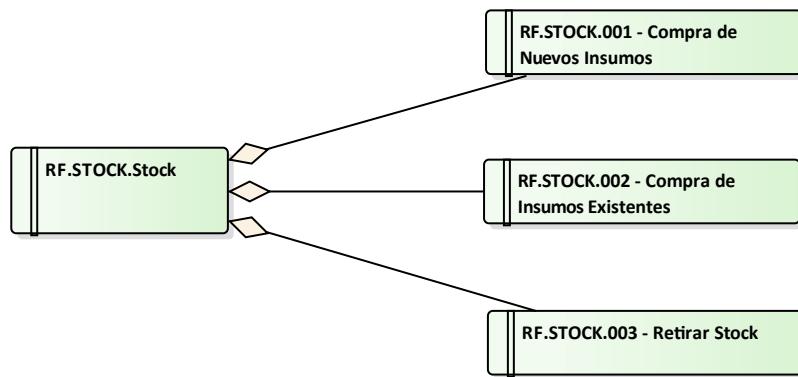


Figure 16: 1.1.6 RF.Stock

## 1.2 Requerimientos no funcionales

Package in package '1. Requerimientos'

1.2 Requerimientos no funcionales  
Version 1.0 Phase 1.0 Proposed  
Rody created on 25/5/2022. Last modified 25/5/2022

## 1.2 Requerimientos no funcionales diagram

Requirements diagram in package '1.2 Requerimientos no funcionales'

1.2 Requerimientos no funcionales  
Version 1.0  
Rody created on 27/5/2022. Last modified 27/5/2022

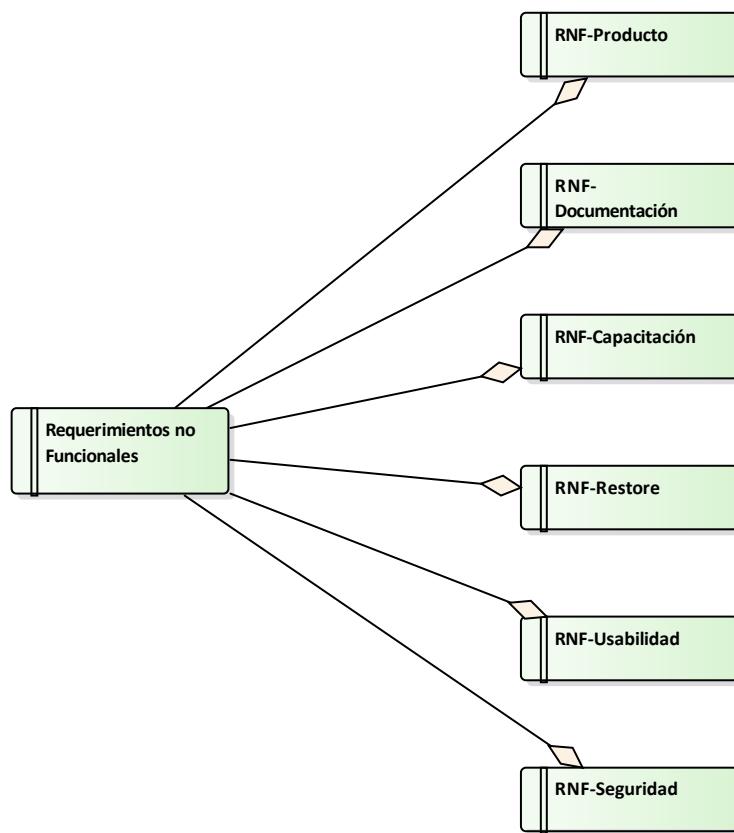


Figure 17: 1.2 Requerimientos no funcionales

## 1.3 Arquitectura Base

*Package in package '1. Requerimientos'*

1.3 Arquitectura Base

Version 1.0 Phase 1.0 Proposed  
Rody created on 25/5/2022. Last modified 25/5/2022

## 2. Diagrama de Dominio

Package in package 'Sdental'

2. Diagrama de Dominio  
Version 1.0 Phase 1.0 Proposed  
Rody created on 25/5/2022. Last modified 25/5/2022

## 2. Diagrama de Dominio diagram

Class diagram in package '2. Diagrama de Dominio'

2. Diagrama de Dominio  
Version 1.0  
Rody created on 27/5/2022. Last modified 27/5/2022

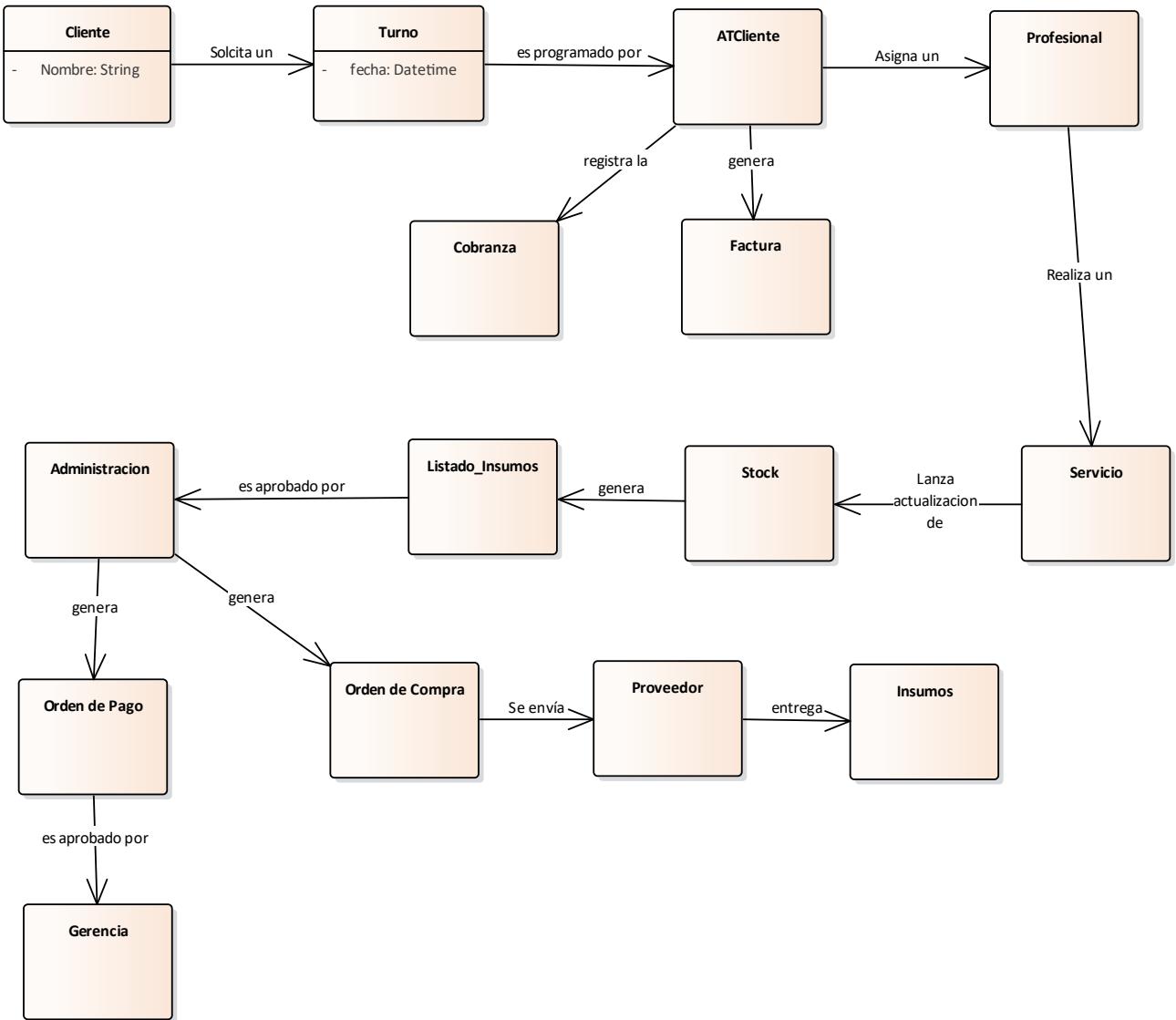


Figure 18: 2. Diagrama de Dominio

### 3. Casos de Uso

Package in package 'Sdental'

3. Casos de Uso  
Version 1.0 Phase 1.0 Proposed  
Rody created on 27/5/2022. Last modified 27/5/2022

#### 3.1. Usos Funcionales

Package in package '3. Casos de Uso'

3.1. Usos Funcionales  
Version 1.0 Phase 1.0 Proposed  
Rody created on 1/7/2022. Last modified 1/7/2022

#### AtencionMedica

Package in package '3.1. Usos Funcionales'

AtencionMedica  
Version 1.0 Phase 1.0 Proposed  
Rody created on 15/7/2022. Last modified 15/7/2022

#### AtencionMedica diagram

Use Case diagram in package 'AtencionMedica'

AtencionMedica  
Version 1.0  
Rody created on 15/7/2022. Last modified 15/7/2022

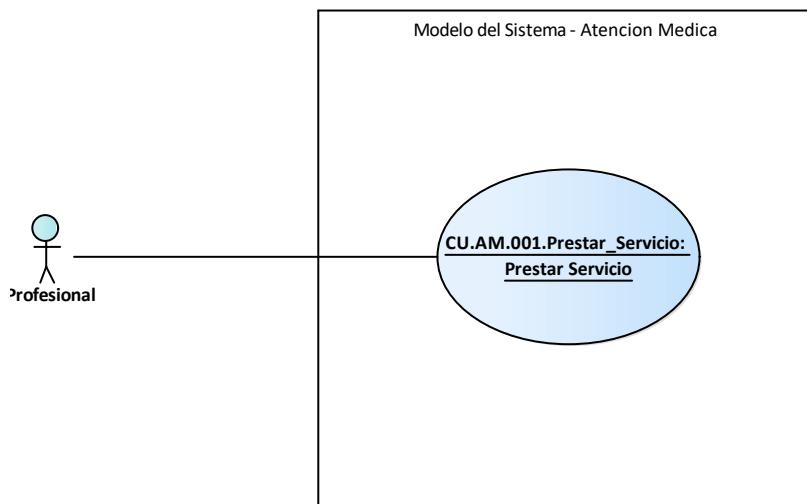


Figure 19: AtencionMedica

#### CU.AM.001.Prestar\_Servicio

*Instance in package 'AtencionMedica'*

**Nombre:** Prestar Servicio

**Objetivo:** Realizar una atención médica

**Disparador:** Atención de un turno.

**Pre:** El turno debe estar dado de alta en el sistema.

**Post:** Se realiza la atención médica

**Curso ppal:**

1. Se recibe el turno. En caso de ser necesario se desestima por falta de insumos o se toma.
2. Se abre el módulo de atención a pacientes.
3. Se realiza la AM.
4. Se confirman los insumos utilizados.
5. Se refleja la historia clínica del paciente-

**Curso Alt:** Se registra en "Documentos Office" (DOFF) los pasos del del curso ppal.

CU.AM.001.Prestar\_Servicio

Version 1.0 Phase 1.0 Proposed

Rody created on 15/7/2022. Last modified 15/7/2022

#### CONNECTORS



**Association** Unspecified

From: Object : Object, Public

To: CU.AM.001.Prestar\_Servicio : Instance, Public

## Gestion Sistema

Package in package '3.1. Usos Funcionales'

Gestion Sistema  
Version 1.0 Phase 1.0 Proposed  
Rody created on 15/7/2022. Last modified 15/7/2022

### Gestion Sistema diagram

Use Case diagram in package 'Gestion Sistema'

Gestion Sistema  
Version 1.0  
Rody created on 15/7/2022. Last modified 15/7/2022

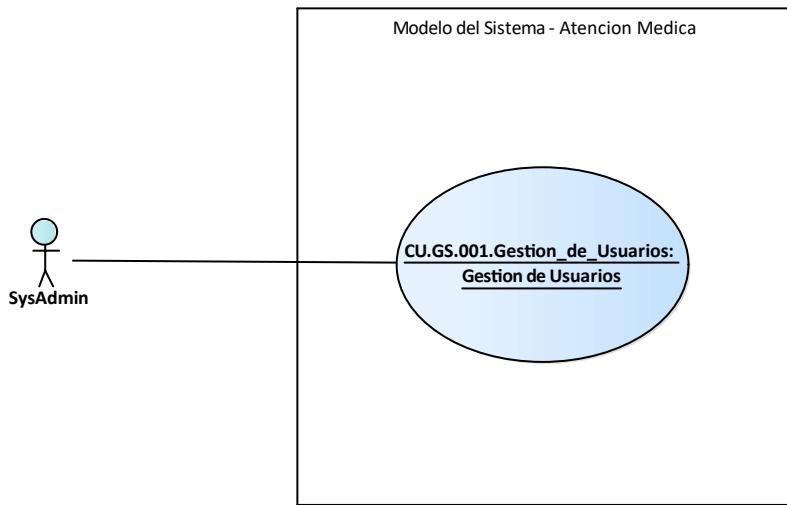


Figure 20: Gestion Sistema

### CU.GS.001.Gestion\_de\_Usuarios

Instance in package 'Gestion Sistema'

**Nombre:** Gestión de usuarios del sistema

**Objetivo:** Gestionar el ABM de usuarios del sistema

**Disparador:** Se requiere el ABM de un nuevo usuario en el sistema

**Pre:** El sistema debe tener conexión a la DB.

**Post:** Se genera un nuevo usuario en el Sistema

#### Curso ppal:

1. En caso de un Alta se solicita: Nombre y Apellido, función. Se registra un nuevo usuario con el formato NOMBRE y contraseña inicial y se le asignan los roles correspondientes.
2. En caso de una Modificación se solicita: Nombre y Apellido, función. Se ajustan los datos necesarios. Es posible que se asigne una nueva función por lo que, también se asignan los permisos correspondientes.
3. En caso de una Baja se solicita: Nombre y Apellido. Se elimina usuario de la DB

**Curso Alt:** N/A

CU.GS.001.Gestion\_de\_Usuarios  
Version 1.0 Phase 1.0 Proposed  
Rody created on 15/7/2022. Last modified 15/7/2022

#### CONNECTORS

**CONNECTORS** **Association**    Unspecified

From: Object : Object, Public

To: CU.GS.001.Gestion\_de\_Usuarios : Instance, Public

## Stock

Package in package '3.1. Usos Funcionales'

Stock  
Version 1.0 Phase 1.0 Proposed  
Rody created on 15/7/2022. Last modified 15/7/2022

### Stock diagram

Use Case diagram in package 'Stock'

Stock  
Version 1.0  
Rody created on 15/7/2022. Last modified 15/7/2022

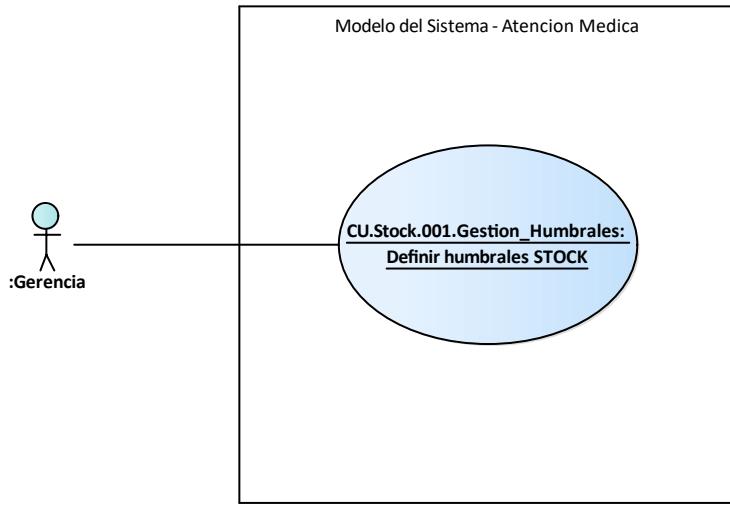


Figure 21: Stock

### CU.Stock.001.Gestion\_Humbrales

Instance in package 'Stock'

**Nombre:** Gestion de Humbrales

**Objetivo:** Definir humbrales para la gestion de Stock automatico.

**Disparador:** Ingreso de nuevo insumo en el sistema.

**Pre:** El insumo debe estar cargado en el sistema.

**Post:** Queda definido un nuevo humbral para el insumo afectado.

**Curso ppal:**

1. Se define el número de stock mínimo para el insumo afectado.

**Curso Alt:** Se registra en DOFF el humbral para el insumo afectado

CU.Stock.001.Gestion\_Humbrales  
Version 1.0 Phase 1.0 Proposed  
Rody created on 15/7/2022. Last modified 15/7/2022

#### CONNECTORS

↗ **Association** Unspecified  
From: Object : Object, Public  
To: CU.Stock.001.Gestion\_Humbrales : Instance, Public



## AtencionAlCliente

Package in package '3.1. Usos Funcionales'

AtencionAlCliente  
Version 1.0 Phase 1.0 Proposed  
Rody created on 15/7/2022. Last modified 15/7/2022

### AtencionAlCliente diagram

Use Case diagram in package 'AtencionAlCliente'

AtencionAlCliente  
Version 1.0  
Rody created on 15/7/2022. Last modified 15/7/2022

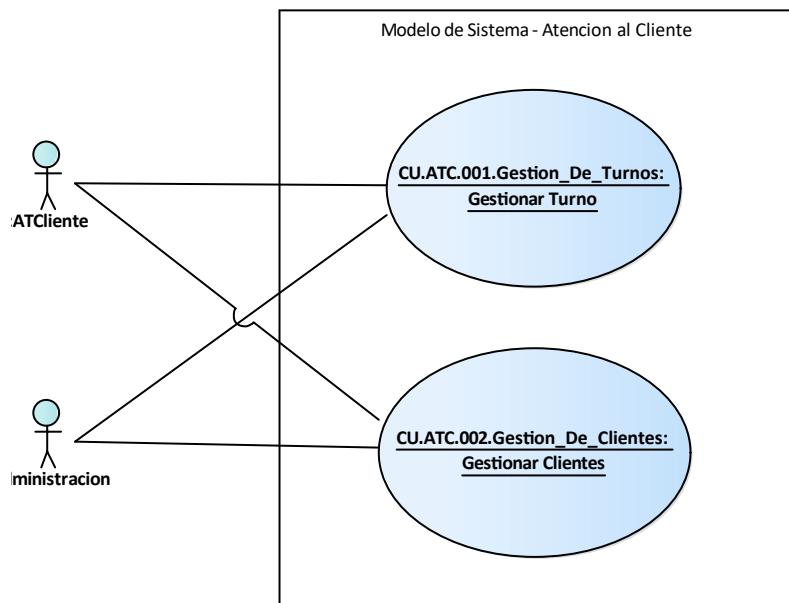


Figure 22: AtencionAlCliente

### CU.ATC.001.Gestion\_De\_Turnos

Instance in package 'AtencionAlCliente'

**Nombre:** Gestión de turnos de pacientes

**Objetivo:** Registrar el ABM de los turnos de cada cliente.

**Disparador:** El cliente ya sea de forma presencial o vía comunicación telefónica, solicita el alta, la baja o la modificación de un turno.

**Pre:** El cliente debe estar dado de alta en el sistema.

**Post:** Se registra un nuevo turno, se modifica un turno o se da de baja algún turno

#### Curso ppal:

1. El Cliente solicita un alta, baja o modificación de un turno
2. El empleado de Atención al Cliente solicita "DNI" o "nombre y apellido" para identificar al Cliente.
3. Si el cliente no existe, se da de alta un nuevo cliente en "CU.ATC.002". Sino se selecciona el usuario correspondiente
4. en caso de alta: ATC consulta que tipo de atención requiere. En caso de Modificación: ATC indica disponibilidad de horarios. En caso de baja: ATC registra la baja del turno
5. Queda registrado el ABM del turno en el sistema.

**Curso Alt:** Se registra en un "sistema de fichas tradicional" los pasos del del curso ppal

CU.ATC.001.Gestion\_De\_Turnos  
Version 1.0 Phase 1.0 Proposed

Rody created on 15/7/2022. Last modified 15/7/2022

**CONNECTORS**

 **Association** Unspecified  
 From: Object : Object, Public  
 To: CU.ATC.001.Gestion\_De\_Turnos : Instance, Public

 **Association** Unspecified  
 From: Object : Object, Public  
 To: CU.ATC.001.Gestion\_De\_Turnos : Instance, Public

**CU.ATC.002.Gestion\_De\_Clientes***Instance in package 'AtencionAlCliente'***Nombre:** Gestionar Clientes**Objetivo:** Registrar el ABM de clientes.**Disparador:** Se requiere un ABM de Cliente.**Pre:** Se requiere DNI, Apellido, Nombre, Dirección (alternativo) y datos de contacto telefónico.**Post:** Se registra un ABM de Cliente**Curso ppal:**

1. ATC detecta la necesidad de un ABM de Cliente.
2. En caso de Alta: Se solicita DNI, Nombre y Apellido, Localidad y datos de contacto telefónico.
3. En caso de Modificación: Se solicita los datos a modificar.
4. En caso de Baja: Se deshabilita el usuario seteando el campo "Activo=false".
5. Queda registrado el ABM del Cliente en el sistema.

**Curso Alt:** Se registra en un "sistema de fichas tradicional" los pasos del del curso ppal

CU.ATC.002.Gestion\_De\_Clientes

Version 1.0 Phase 1.0 Proposed

Rody created on 15/7/2022. Last modified 15/7/2022

**CONNECTORS**

 **Association** Unspecified  
 From: Object : Object, Public  
 To: CU.ATC.002.Gestion\_De\_Clientes : Instance, Public

 **Association** Unspecified  
 From: Object : Object, Public  
 To: CU.ATC.002.Gestion\_De\_Clientes : Instance, Public

## Compras

Package in package '3.1. Usos Funcionales'

Compras  
Version 1.0 Phase 1.0 Proposed  
Rody created on 15/7/2022. Last modified 15/7/2022

## Compras diagram

Use Case diagram in package 'Compras'

Compras  
Version 1.0  
Rody created on 15/7/2022. Last modified 15/7/2022

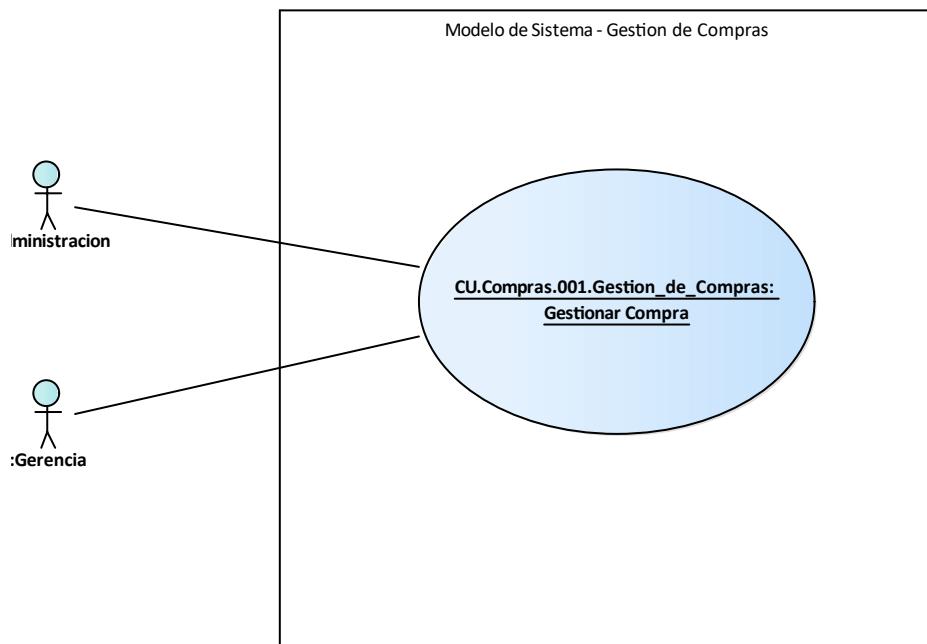


Figure 23: Compras

### CU.Compras.001.Gestion\_de\_Compras

Instance in package 'Compras'

**Nombre:** Gestión de Compras.

**Objetivo:** Realizar ordenes de compras de los insumos faltantes.

**Disparador:** La IA envía una notificación al sector de Administración, una lista de insumos faltantes

**Pre:** El stock debe estar actualizado.

**Post:** Se registra una nueva orden de compra.

#### **Curso ppal:**

1. Se valida la lista enviada por la IA
2. Se valida con la lista de Proveedores sugerida por IA, disponibilidad de insumos.
3. Una vez que el Proveedor seleccionado nos confirma disponibilidad -> Se genera orden de compra para autorizar por Gerencia.
4. Se envia la OC al proveedor para que confirme la lista y precios.
5. Una vez que la OC esta aprobada, se genera una OP a autorizar por Gerencia.
6. Con OP autorizada -> Se realiza el pago al proveedor.
7. El Proveedor genera la factura y realiza el despacho de la mercadería
8. Administración realiza la carga en el sistema de la mercadería recibida
9. El Stock queda actualizado

**Curso Alt:** Se registra en "Documentos Office" los pasos del curso ppal.

CU.Compras.001.Gestion\_de\_Compras  
Version 1.0 Phase 1.0 Proposed  
Rody created on 15/7/2022. Last modified 15/7/2022

## CONNECTORS

↗ **Association** Unspecified  
From: Object : Object, Public  
To: CU.Compras.001.Gestion\_de\_Compras : Instance, Public

↗ **Association** Unspecified  
From: Object : Object, Public  
To: CU.Compras.001.Gestion\_de\_Compras : Instance, Public

## Aprobaciones

Package in package '3.1. Usos Funcionales'

Aprobaciones  
Version 1.0 Phase 1.0 Proposed  
Rody created on 15/7/2022. Last modified 15/7/2022

## Aprobaciones diagram

Use Case diagram in package 'Aprobaciones'

Aprobaciones  
Version 1.0  
Rody created on 15/7/2022. Last modified 15/7/2022

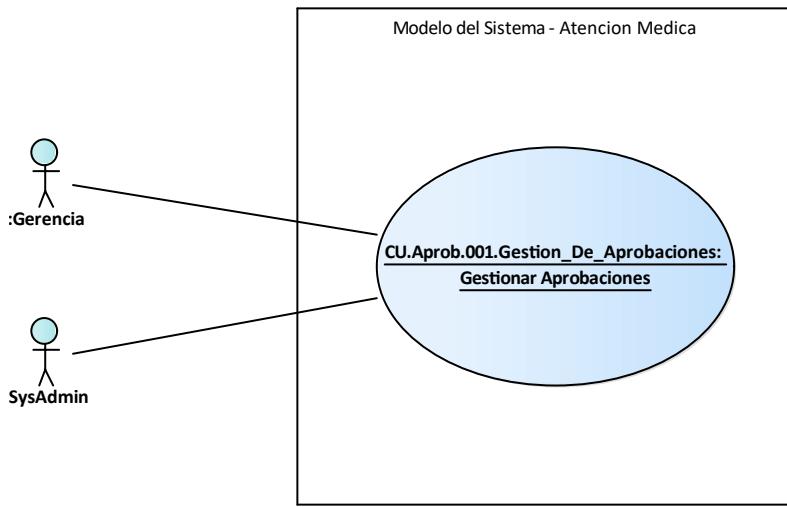


Figure 24: Aprobaciones

### CU.Aprob.001.Gestion\_De\_Aprobaciones

Instance in package 'Aprobaciones'

**Nombre:** Gestión de Aprobaciones

**Objetivo:** Aprobar Documento de Compras (DC).

**Disparador:** Administración solicita la aprobación de DCs

**Pre:** El DC debe estar dado de alta en el sistema.

**Post:** El DC queda autorizado para su procesamiento.

#### Curso ppal:

1. Administracion solicita la aprobacion de un DC.
2. Desde gerencia se evalúa el requerimiento.
3. En caso de estar correcta la carga del DC y que la solicitud sea correcta -> Se autoriza el DC. Sino se rechaza el DC
4. El DC queda autorizado y registrado en el sistema.

**Curso Alt:** Se registra en "Documentos Office" (DOFF) los pasos del curso ppal. En el caso de las aprobaciones, los DOFF deben llevar la firma del Gerente. De lo contrario no se consideran aprobados. En caso de rechazo, se indica en el DOFF bajo firma de Gerencia.

CU.Aprob.001.Gestion\_De\_Aprobaciones  
Version 1.0 Phase 1.0 Proposed  
Rody created on 15/7/2022. Last modified 15/7/2022

## CONNECTORS

**CONNECTORS**

↗ **Association** Unspecified  
From: Object : Object, Public  
To: CU.Aprob.001.Gestion\_De\_Aprobaciones : Instance, Public

↗ **Association** Unspecified  
From: Object : Object, Public  
To: CU.Aprob.001.Gestion\_De\_Aprobaciones : Instance, Public

## 3.2. Usos No Funcionales

Package in package '3. Casos de Uso'

3.2. Usos No Funcionales  
Version 1.0 Phase 1.0 Proposed  
Rody created on 1/7/2022. Last modified 1/7/2022

### I.A

Package in package '3.2. Usos No Funcionales'

I.A  
Version 1.0 Phase 1.0 Proposed  
Rody created on 1/7/2022. Last modified 1/7/2022

### I.A diagram

Use Case diagram in package 'I.A'

I.A  
Version 1.0  
Rody created on 1/7/2022. Last modified 15/7/2022

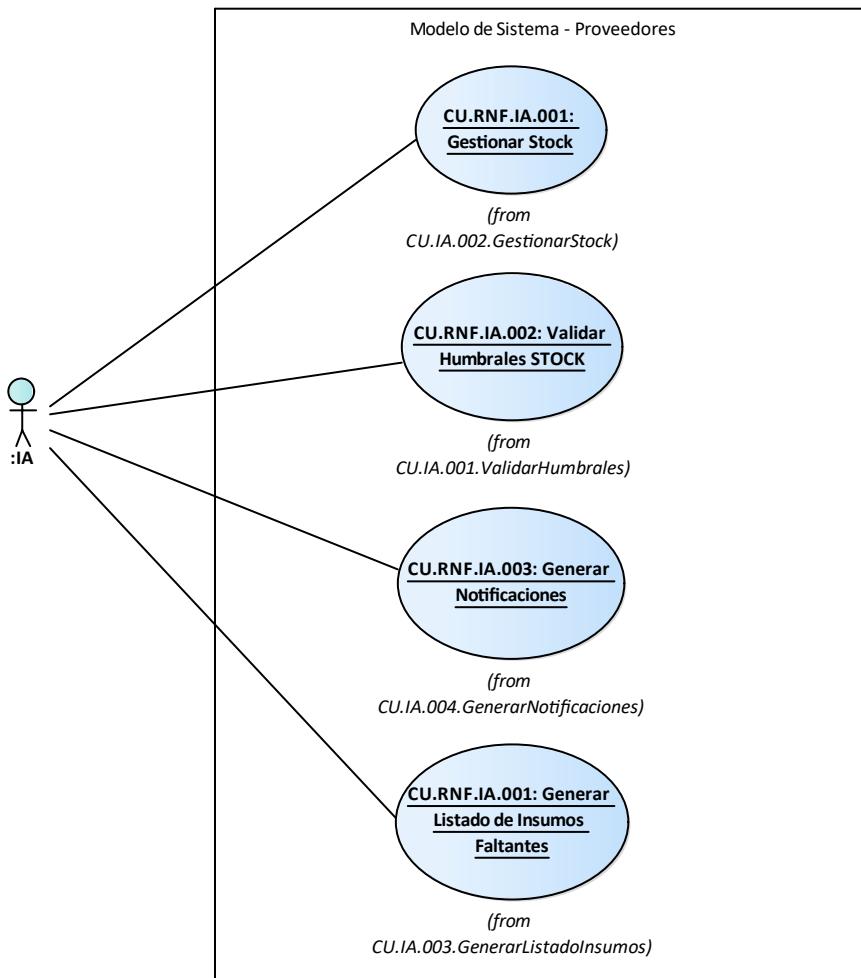


Figure 25: I.A

## CU.IA.001.ValidarHumbrales

Package in package 'I.A'

CU.IA.001.ValidarHumbrales  
Version 1.0 Phase 1.0 Proposed  
Rody created on 1/7/2022. Last modified 1/7/2022

### CU.IA.001.ValidarHumbrales diagram

Use Case diagram in package 'CU.IA.001.ValidarHumbrales'

CU.IA.001.ValidarHumbrales  
Version 1.0  
Rody created on 1/7/2022. Last modified 1/7/2022

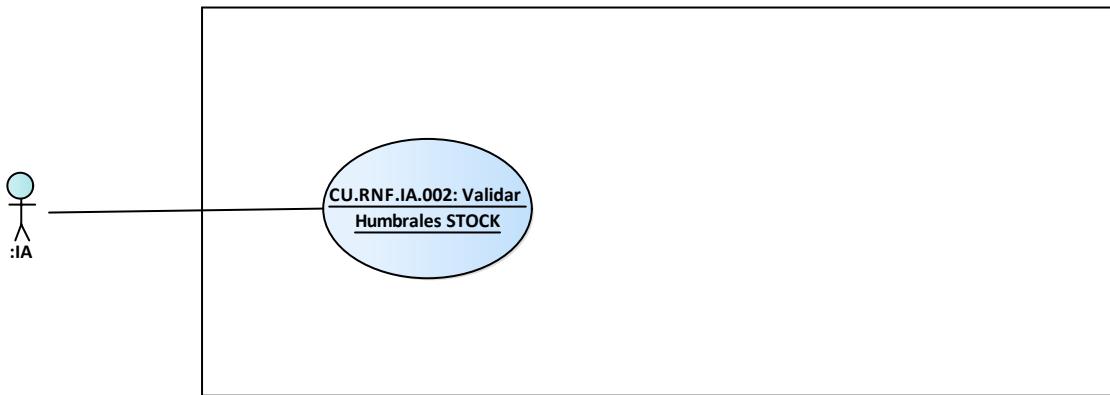


Figure 26: CU.IA.001.ValidarHumbrales

## CU.RNF.IA.002

Instance in package 'CU.IA.001.ValidarHumbrales'

N/A

CU.RNF.IA.002  
Version 1.0 Phase 1.0 Proposed  
Rody created on 1/7/2022. Last modified 15/7/2022

CONNECTORS	
<b>Association</b>	Unspecified From: Object : Object, Public To: CU.RNF.IA.002 : Instance, Public
<b>Association</b>	Unspecified From: Object : Object, Public To: CU.RNF.IA.002 : Instance, Public

**CU.IA.002.GestionarStock***Package in package 'I.A'*

CU.IA.002.GestionarStock  
 Version 1.0 Phase 1.0 Proposed  
 Rody created on 1/7/2022. Last modified 1/7/2022

***CU.IA.002.GestionarStock diagram****Use Case diagram in package 'CU.IA.002.GestionarStock'*

CU.IA.002.GestionarStock  
 Version 1.0  
 Rody created on 1/7/2022. Last modified 1/7/2022

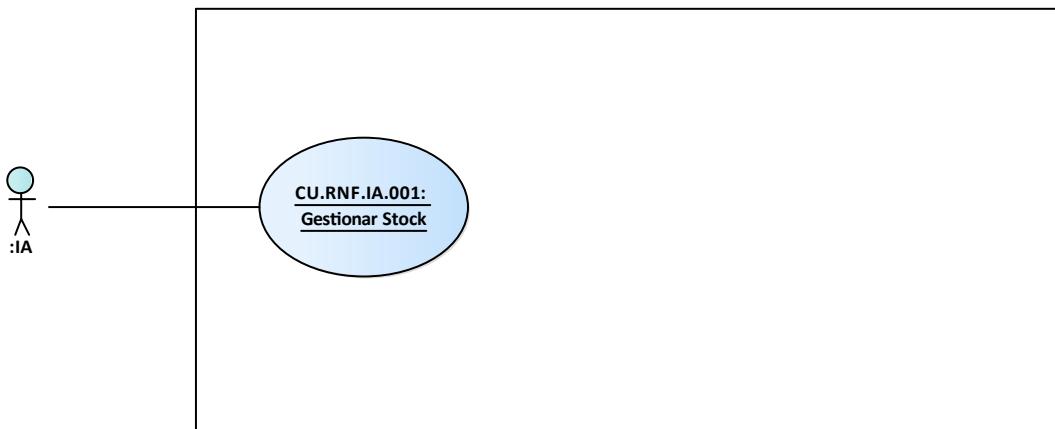


Figure 27: CU.IA.002.GestionarStock

**CU.RNF.IA.001***Instance in package 'CU.IA.002.GestionarStock'*

N/A

CU.RNF.IA.001  
 Version 1.0 Phase 1.0 Proposed  
 Rody created on 1/7/2022. Last modified 15/7/2022

CONNECTORS	
	<b>Association</b> Unspecified From: Object : Object, Public To: CU.RNF.IA.001 : Instance, Public
	<b>Association</b> Unspecified From: Object : Object, Public To: CU.RNF.IA.001 : Instance, Public

**CU.IA.003.GenerarListadoInsumos***Package in package 'I.A'*

CU.IA.003.GenerarListadoInsumos  
Version 1.0 Phase 1.0 Proposed  
Rody created on 1/7/2022. Last modified 1/7/2022

**CU.RNF.IA.001***Instance in package 'CU.IA.003.GenerarListadoInsumos'*

N/A

CU.RNF.IA.001  
Version 1.0 Phase 1.0 Proposed  
Rody created on 1/7/2022. Last modified 15/7/2022

**CONNECTORS**

 **Association** Unspecified  
From: Object : Object, Public  
To: CU.RNF.IA.001 : Instance, Public

**CU.IA.004.GenerarNotificaciones***Package in package 'I.A'*

CU.IA.004.GenerarNotificaciones  
Version 1.0 Phase 1.0 Proposed  
Rody created on 1/7/2022. Last modified 1/7/2022

**CU.RNF.IA.003***Instance in package 'CU.IA.004.GenerarNotificaciones'*

N/A

CU.RNF.IA.003  
Version 1.0 Phase 1.0 Proposed  
Rody created on 1/7/2022. Last modified 15/7/2022

**CONNECTORS**

 **Association** Unspecified  
From: Object : Object, Public  
To: CU.RNF.IA.003 : Instance, Public

## Proveedores

*Package in package '3.2. Usos No Funcionales'*

Proveedores  
Version 1.0 Phase 1.0 Proposed  
Rody created on 15/7/2022. Last modified 15/7/2022

### Proveedores diagram

*Use Case diagram in package 'Proveedores'*

Proveedores  
Version 1.0  
Rody created on 15/7/2022. Last modified 15/7/2022

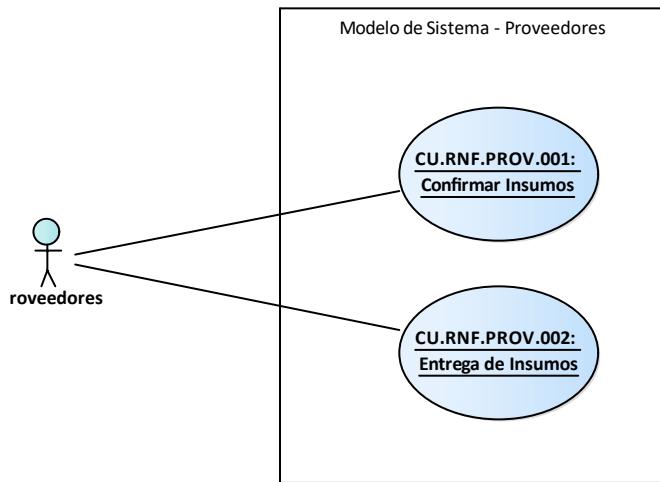


Figure 28: Proveedores

### CU.RNF.PROV.001

*Instance in package 'Proveedores'*

N/A

CU.RNF.PROV.001  
Version 1.0 Phase 1.0 Proposed  
Rody created on 15/7/2022. Last modified 15/7/2022

CONNECTORS	
<b>Association</b> Unspecified From: Object : Object, Public To: CU.RNF.PROV.001 : Instance, Public	

### CU.RNF.PROV.002

*Instance in package 'Proveedores'*

N/A

CU.RNF.PROV.002

Version 1.0 Phase 1.0 Proposed  
Rody created on 15/7/2022. Last modified 15/7/2022**CONNECTORS** **Association** Unspecified

From: Object : Object, Public

To: CU.RNF.PROV.002 : Instance, Public

### 3.3. Arquitectura de Base

*Package in package '3. Casos de Uso'*

3.3. Arquitectura de Base

Version 1.0 Phase 1.0 Proposed

Rody created on 1/7/2022. Last modified 1/7/2022

### 3.4. Actores

*Package in package '3. Casos de Uso'*

3.4. Actores  
Version 1.0 Phase 1.0 Proposed  
Rody created on 1/7/2022. Last modified 1/7/2022

## 4. Diagrama de Clases

Package in package 'Sdental'

4. Diagrama de Clases  
Version 1.0 Phase 1.0 Proposed  
Rody created on 27/5/2022. Last modified 27/5/2022

### 4.1 BLL

Package in package '4. Diagrama de Clases'

4.1 BLL  
Version 1.0 Phase 1.0 Proposed  
Rody created on 15/7/2022. Last modified 15/7/2022

### 4.1 BLL diagram

Class diagram in package '4.1 BLL'

4.1 BLL  
Version 1.0  
Rody created on 23/7/2022. Last modified 23/7/2022

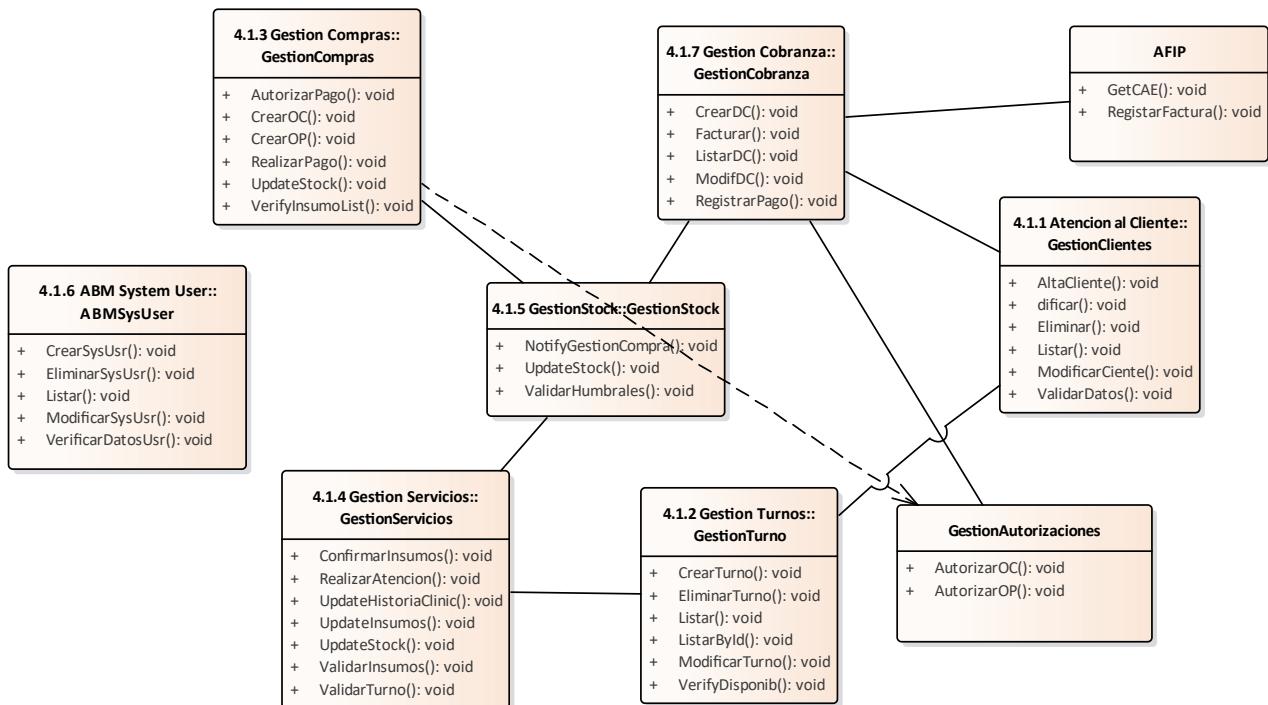


Figure 29: 4.1 BLL

### 4.1.1 Atencion al Cliente

Package in package '4.1 BLL'

4.1.1 Atencion al Cliente

### 4.1.1 Atencion al Cliente diagram

Class diagram in package '4.1.1 Atencion al Cliente'

4.1.1 Atencion al Cliente

Version 1.0

Rody created on 15/7/2022. Last modified 23/7/2022

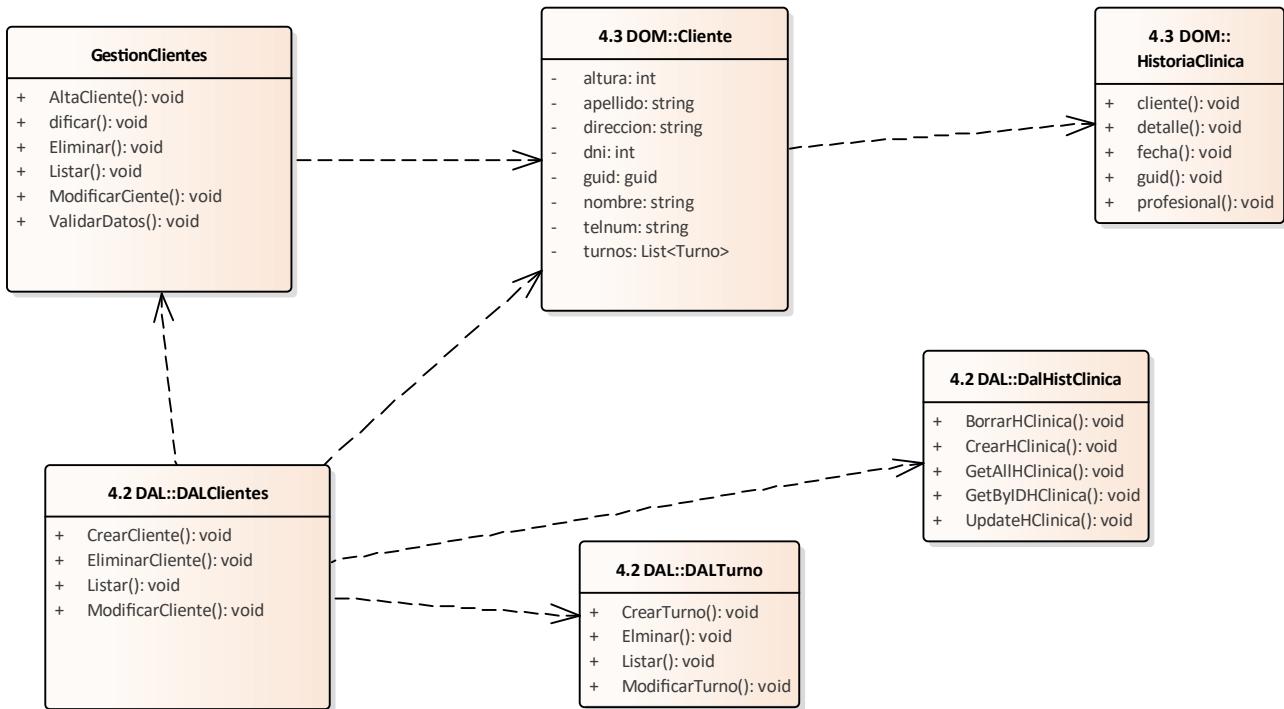


Figure 30: 4.1.1 Atencion al Cliente

## 4.1.2 Gestion Turnos

Package in package '4.1 BLL'

4.1.2 Gestion Turnos  
 Version 1.0 Phase 1.0 Proposed  
 Rody created on 15/7/2022. Last modified 22/7/2022

### 4.1.2 Gestion Turnos diagram

Class diagram in package '4.1.2 Gestion Turnos'

4.1.2 Gestion Turnos  
 Version 1.0  
 Rody created on 15/7/2022. Last modified 23/7/2022

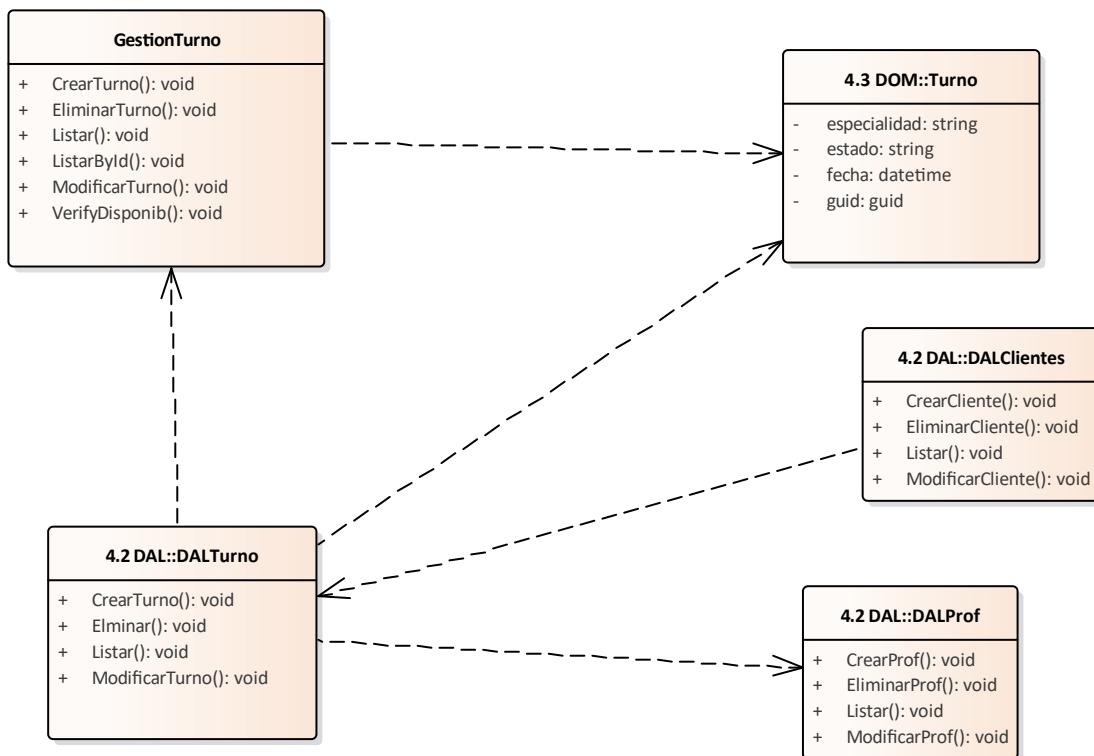


Figure 31: 4.1.2 Gestion Turnos

### **4.1.3 Gestión Compras**

## *Package in package '4.1 BLL'*

4.1.3 Gestion Compras  
Version 1.0 Phase 1.0 Proposed  
Rody created on 15/7/2022. Last modified 15/7/2022

### 4.1.3 Gestion Compras diagram

### *Class diagram in package '4.1.3 Gestión Compras'*

4.1.3 Gestion Compras  
Version 1.0

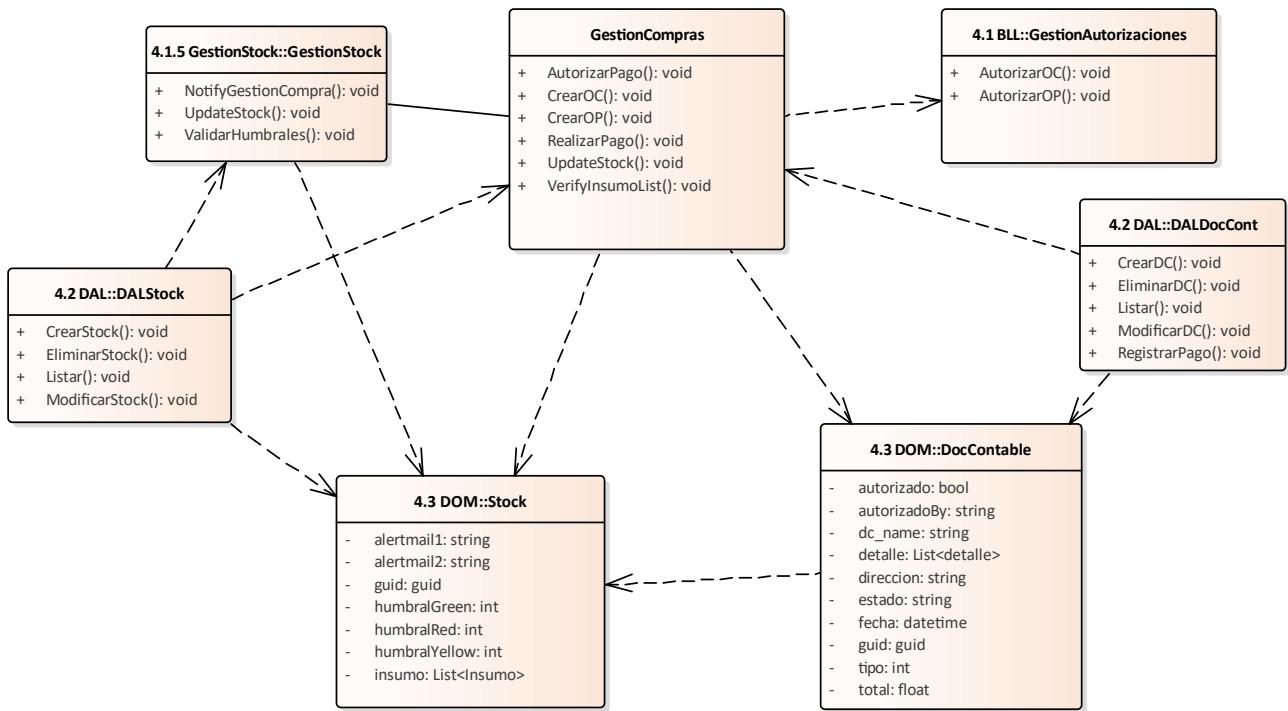


Figure 32: 4.1.3 Gestión Compras

## 4.1.4 Gestión Servicios

Package in package '4.1 BLL'

4.1.4 Gestión Servicios  
Version 1.0 Phase 1.0 Proposed  
Rody created on 15/7/2022. Last modified 15/7/2022

### 4.1.4 Gestión Servicios diagram

Class diagram in package '4.1.4 Gestión Servicios'

4.1.4 Gestión Servicios  
Version 1.0  
Rody created on 15/7/2022. Last modified 23/7/2022

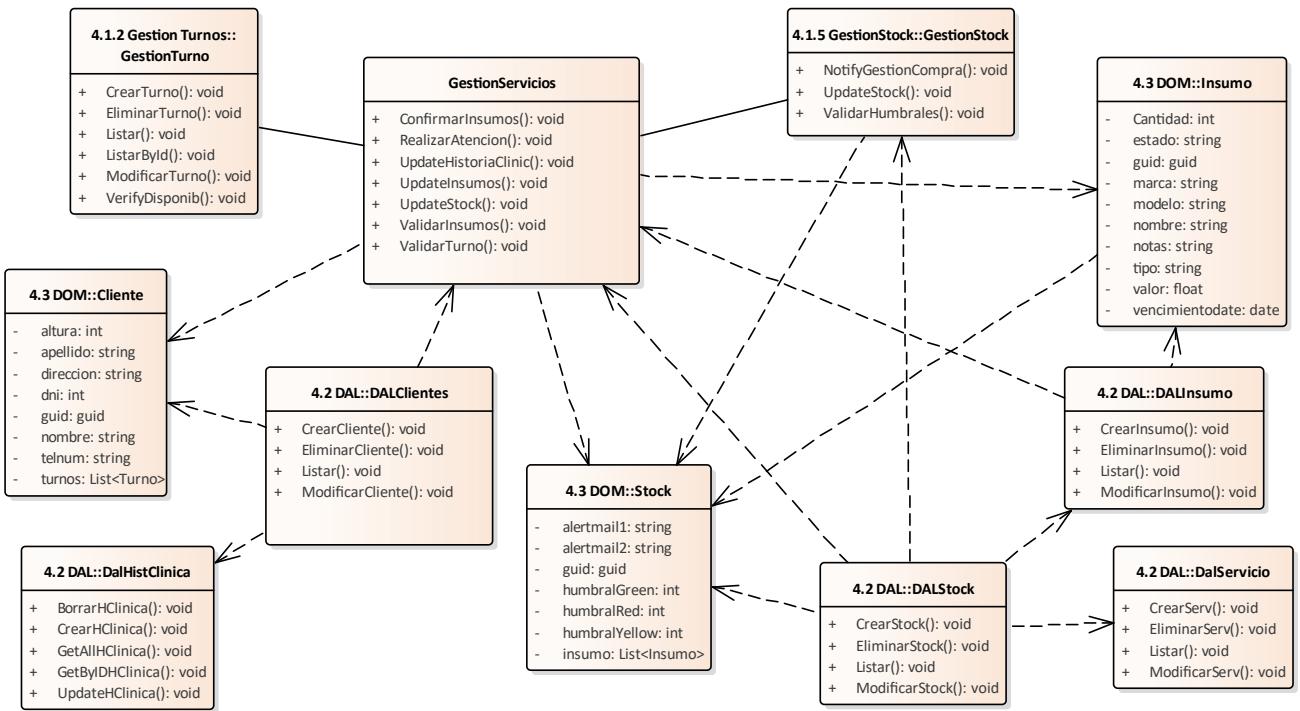


Figure 33: 4.1.4 Gestión Servicios

## 4.1.5 GestionStock

Package in package '4.1 BLL'

4.1.5 GestionStock  
Version 1.0 Phase 1.0 Proposed  
Rody created on 15/7/2022. Last modified 15/7/2022

### 4.1.5 GestionStock diagram

Class diagram in package '4.1.5 GestionStock'

4.1.5 GestionStock  
Version 1.0  
Rody created on 15/7/2022. Last modified 23/7/2022

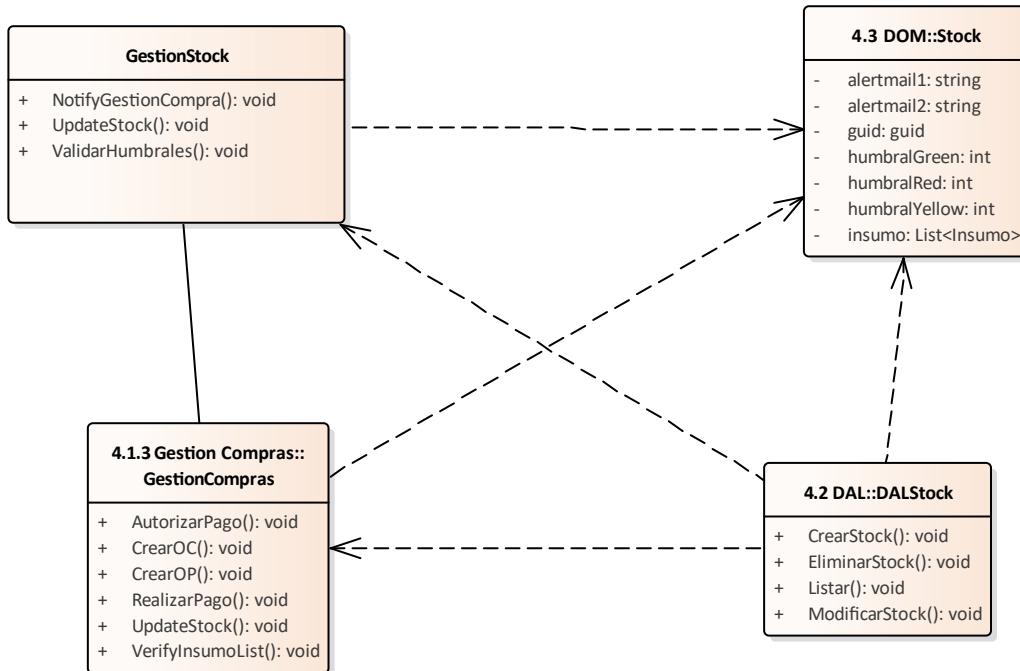


Figure 34: 4.1.5 GestionStock

## 4.1.6 ABM System User

Package in package '4.1 BLL'

4.1.6 ABM System User  
 Version 1.0 Phase 1.0 Proposed  
 Rody created on 15/7/2022. Last modified 15/7/2022

### 4.1.6 ABM System User diagram

Class diagram in package '4.1.6 ABM System User'

4.1.6 ABM System User  
 Version 1.0  
 Rody created on 15/7/2022. Last modified 23/7/2022

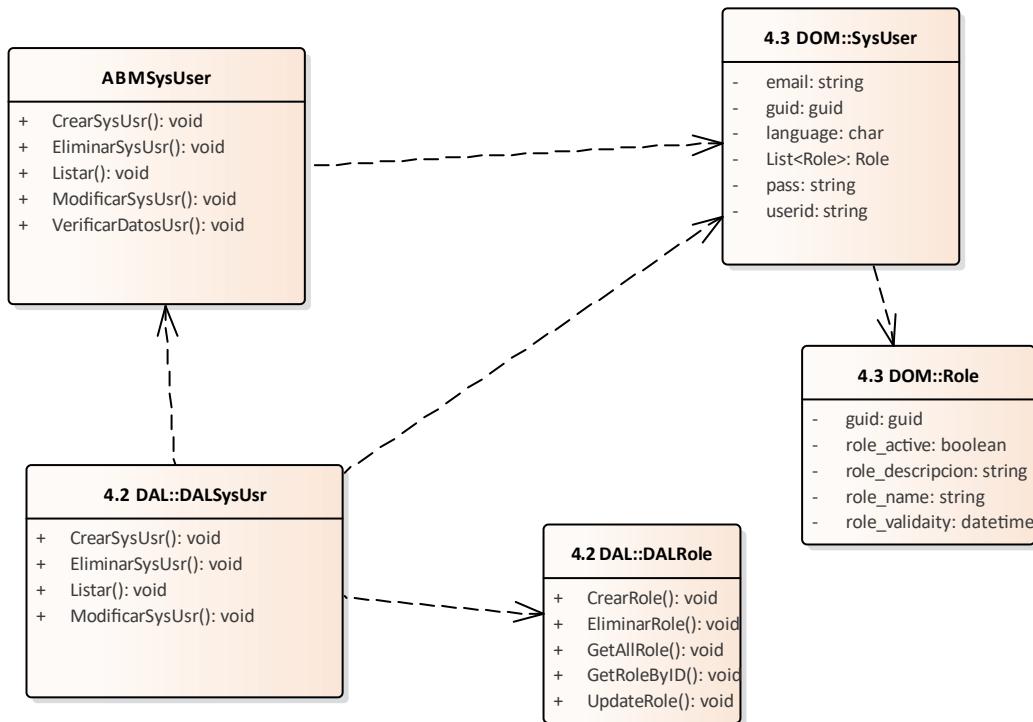


Figure 35: 4.1.6 ABM System User

## 4.1.7 Gestion Cobranza

Package in package '4.1 BLL'

4.1.7 Gestion Cobranza  
Version 1.0 Phase 1.0 Proposed  
Rody created on 15/7/2022. Last modified 15/7/2022

### 4.1.7 Gestion Cobranza diagram

Class diagram in package '4.1.7 Gestion Cobranza'

4.1.7 Gestion Cobranza  
Version 1.0  
Rody created on 15/7/2022. Last modified 23/7/2022

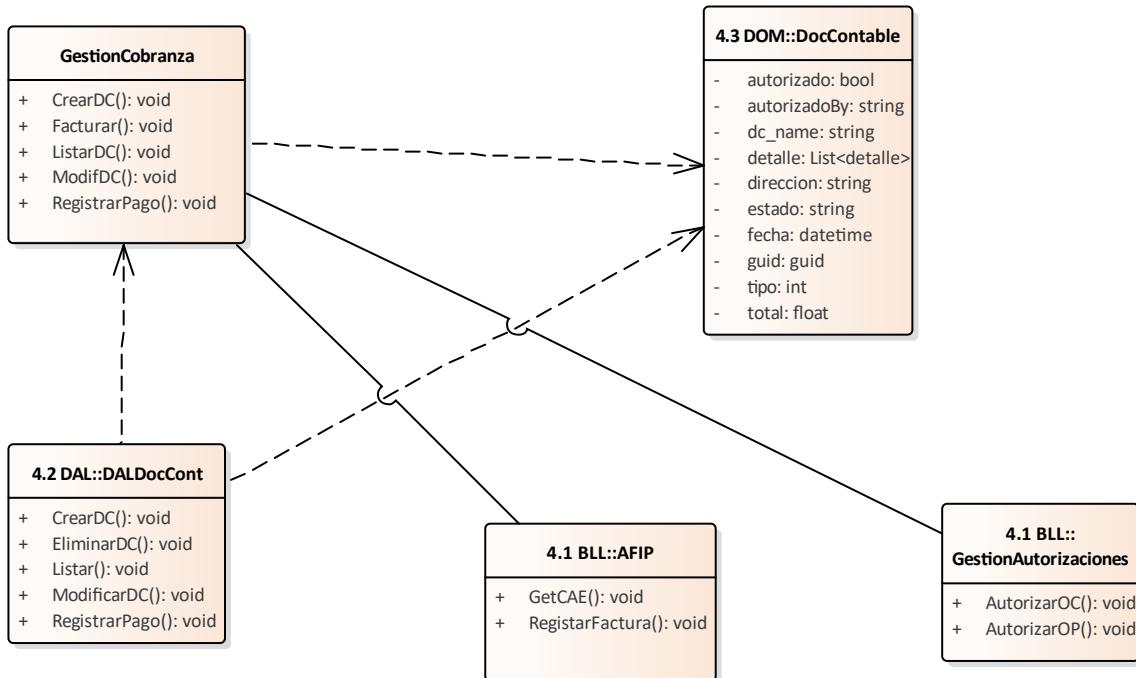


Figure 36: 4.1.7 Gestion Cobranza

## 4.2 DAL

Package in package '4. Diagrama de Clases'

4.2 DAL

Version 1.0 Phase 1.0 Proposed  
Rody created on 15/7/2022. Last modified 15/7/2022

### DAL diagram

Class diagram in package '4.2 DAL'

DAL

Version 1.0

Rody created on 15/7/2022. Last modified 23/7/2022

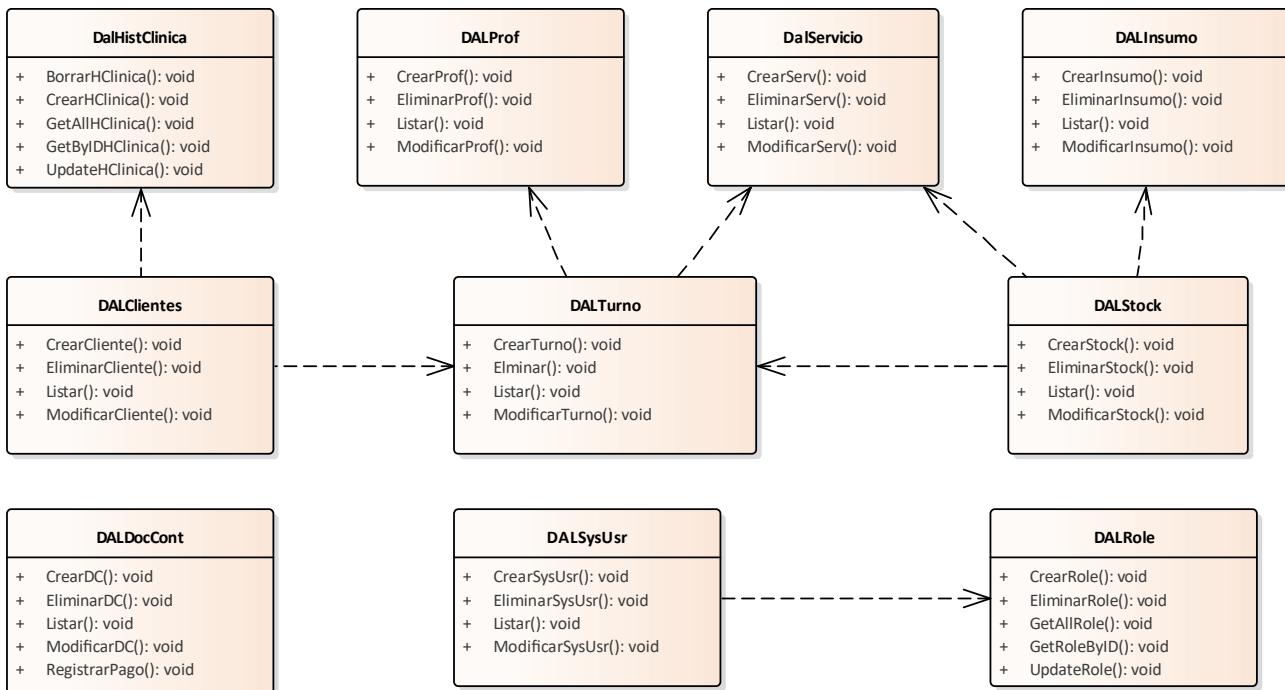


Figure 37: DAL

## 4.3 DOM

Package in package '4. Diagrama de Clases'

4.3 DOM

Version 1.0 Phase 1.0 Proposed  
Rody created on 15/7/2022. Last modified 15/7/2022

### DOM diagram

Class diagram in package '4.3 DOM'

DOM

Version 1.0

Rody created on 15/7/2022. Last modified 23/7/2022

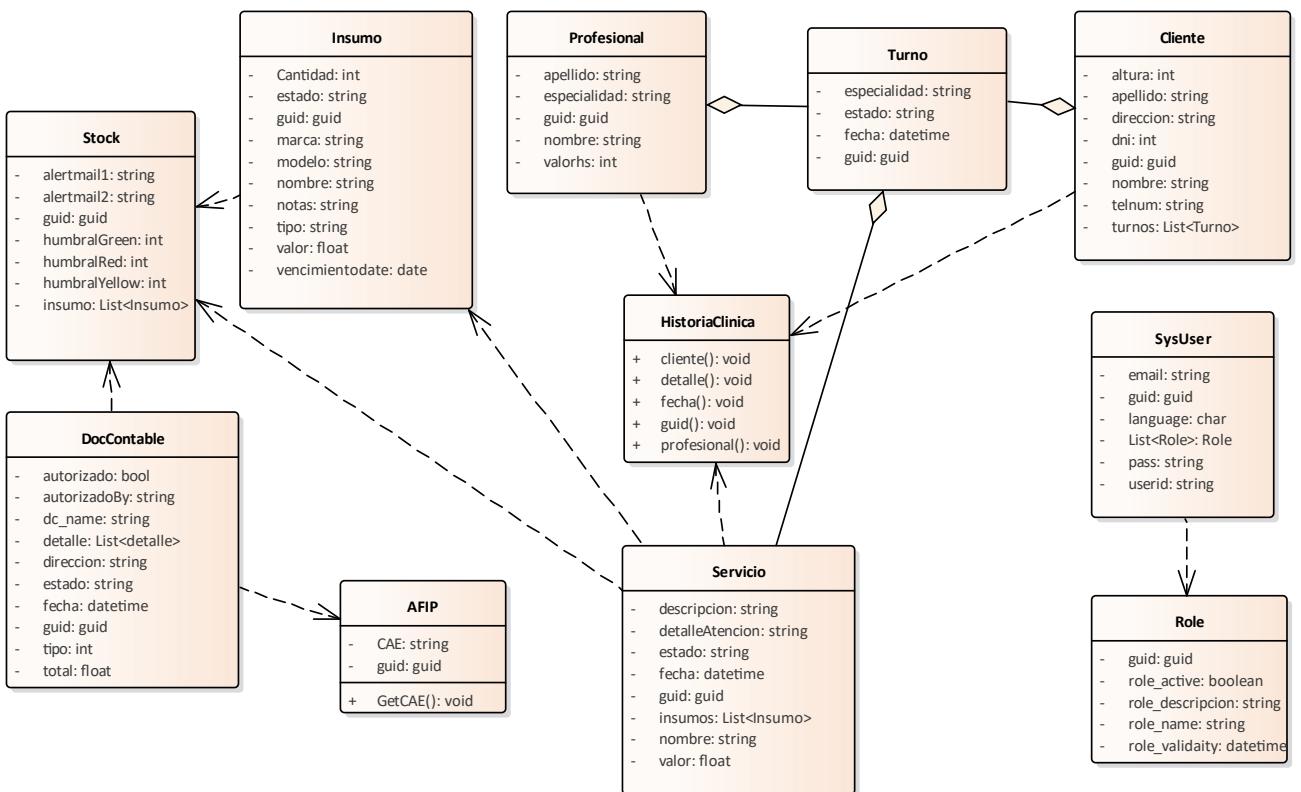


Figure 38: DOM

## 4.4 SL

*Package in package '4. Diagrama de Clases'*

4.4 SL  
Version 1.0 Phase 1.0 Proposed  
Rody created on 15/7/2022. Last modified 15/7/2022

## 5. Diagrama de Secuencia

*Package in package 'Sdental'*

5. Diagrama de Secuencia  
Version 1.0 Phase 1.0 Proposed  
Rody created on 27/5/2022. Last modified 27/5/2022

### 5.1 Gestión de Clientes

*Package in package '5. Diagrama de Secuencia'*

5.1 Gestión de Clientes  
Version 1.0 Phase 1.0 Proposed  
Rody created on 15/7/2022. Last modified 15/7/2022

#### 5.1 Gestión de Clientes diagram

*Interaction diagram in package '5.1 Gestión de Clientes'*

5.1 Gestión de Clientes  
Version 1.0  
Rody created on 15/7/2022. Last modified 23/7/2022

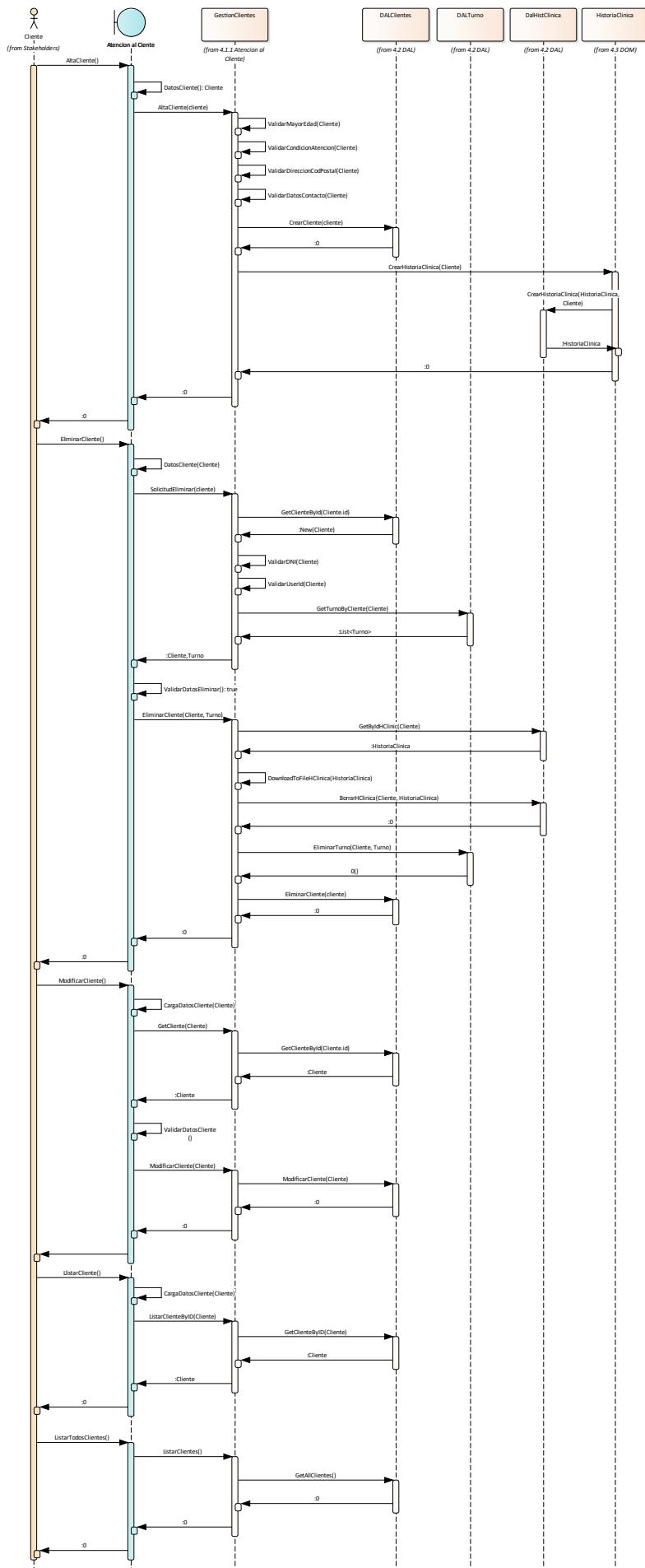


Figure 39: 5.1 Gestion de Clientes

## 5.2 Gestión de Turnos

Package in package '5. Diagrama de Secuencia'

5.2 Gestión de Turnos  
Version 1.0 Phase 1.0 Proposed  
Rody created on 15/7/2022. Last modified 15/7/2022

## 5.2 Gestión de Turnos diagram

Interaction diagram in package '5.2 Gestión de Turnos'

5.2 Gestión de Turnos  
Version 1.0  
Rody created on 15/7/2022. Last modified 23/7/2022

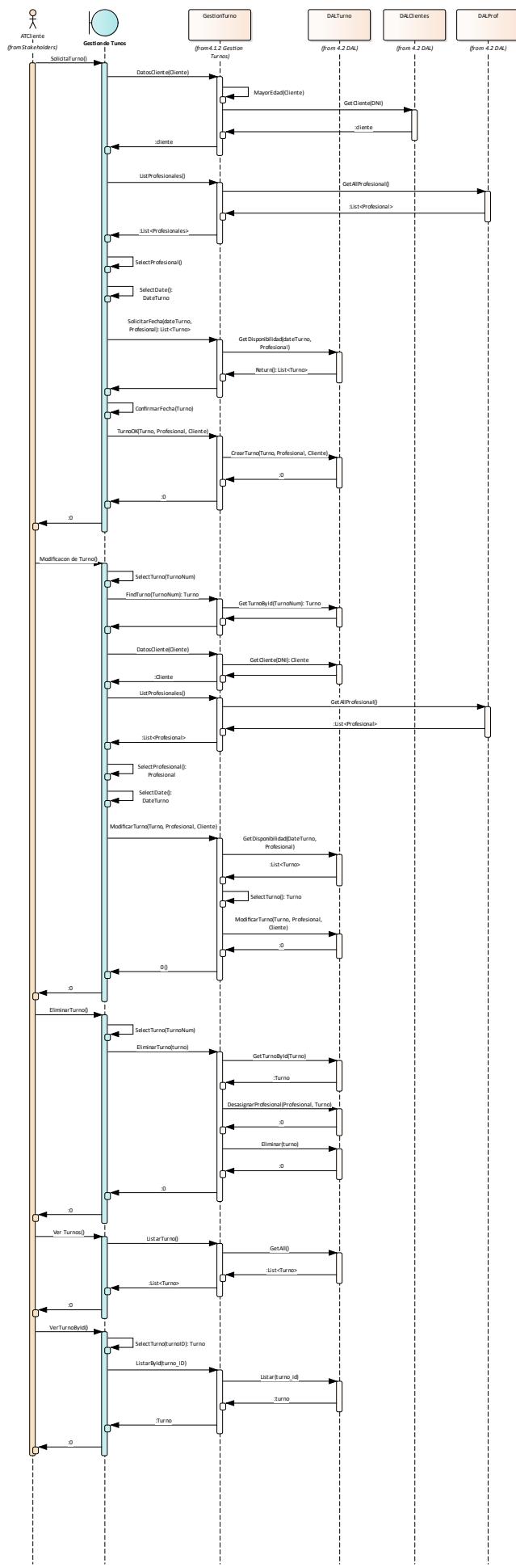


Figure 40: 5.2 Gestión de Turnos

## 5.3 Gestión de Compras

Package in package '5. Diagrama de Secuencia'

5.3 Gestión de Compras  
Version 1.0 Phase 1.0 Proposed  
Rody created on 15/7/2022. Last modified 15/7/2022

## 5.3 Gestión de Compras diagram

Interaction diagram in package '5.3 Gestión de Compras'

5.3 Gestión de Compras  
Version 1.0  
Rody created on 15/7/2022. Last modified 23/7/2022

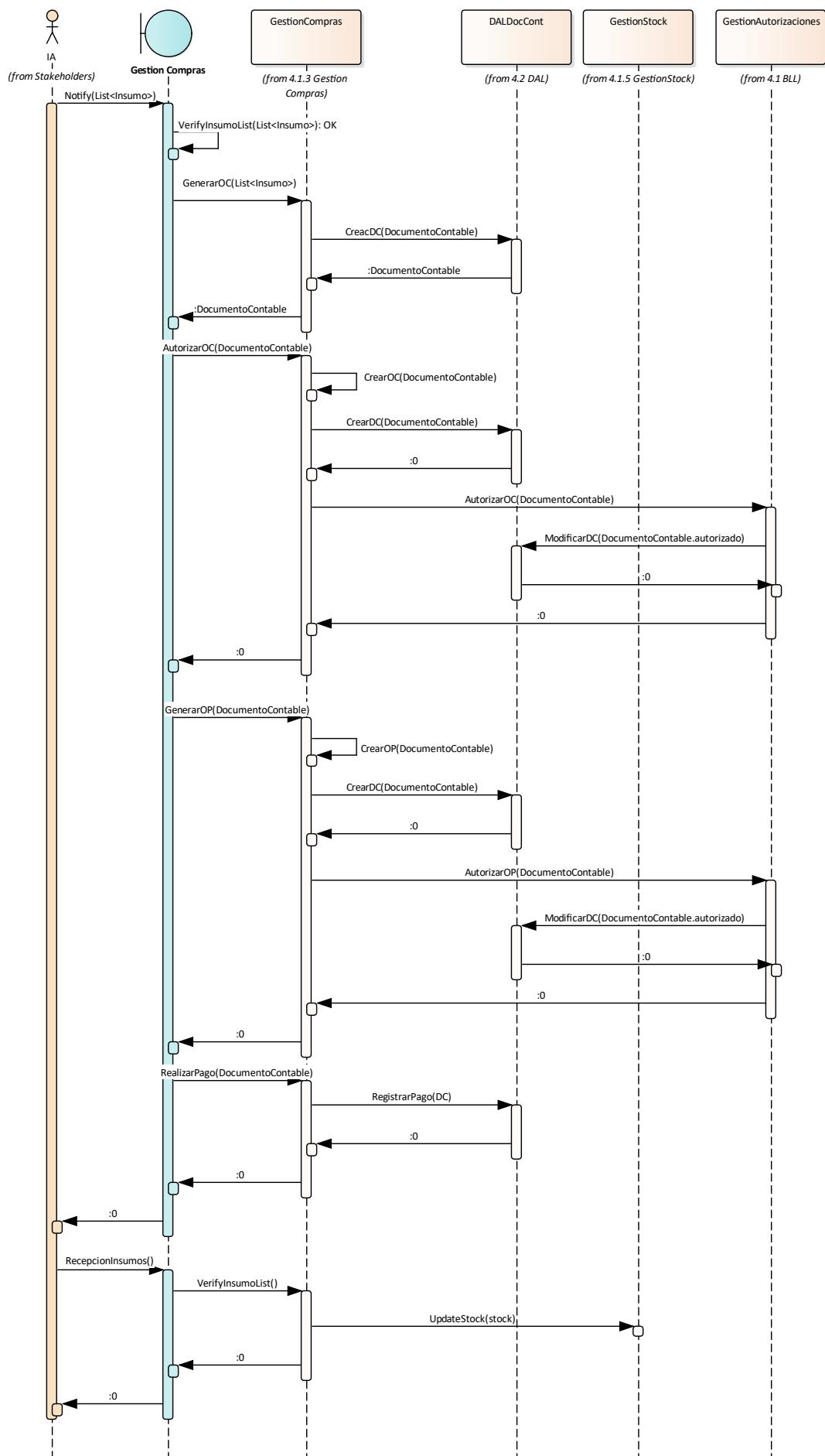


Figure 41: 5.3 Gestion de Compras

## 5.4 Gestión de Servicios

Package in package '5. Diagrama de Secuencia'

5.4 Gestión de Servicios  
Version 1.0 Phase 1.0 Proposed  
Rody created on 15/7/2022. Last modified 15/7/2022

## 5.4 Gestión de Servicios diagram

Interaction diagram in package '5.4 Gestión de Servicios'

5.4 Gestión de Servicios  
Version 1.0  
Rody created on 15/7/2022. Last modified 23/7/2022

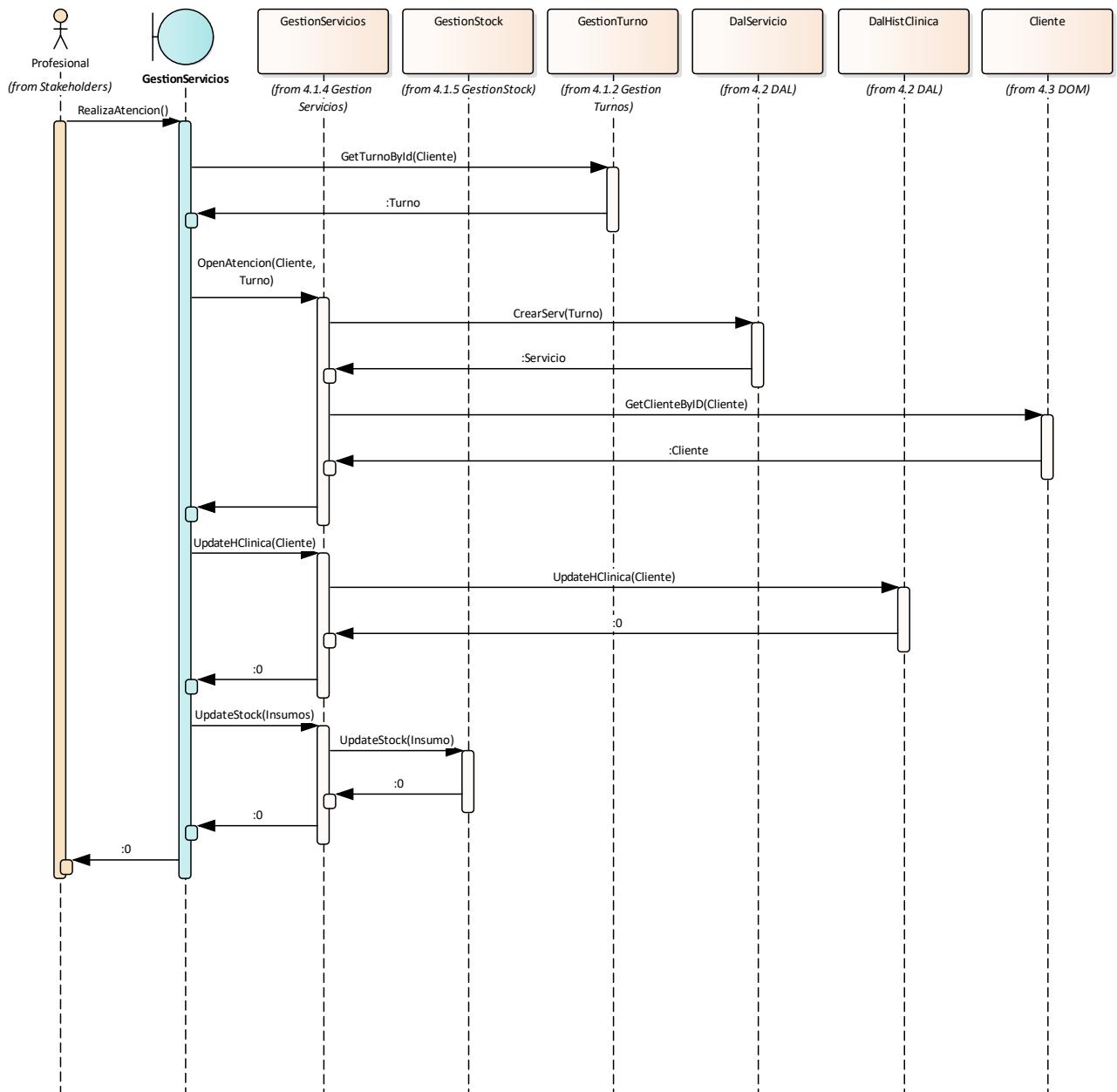


Figure 42: 5.4 Gestión de Servicios



## 5.5 Gestion de Stock

Package in package '5. Diagrama de Secuencia'

5.5 Gestion de Stock  
Version 1.0 Phase 1.0 Proposed  
Rody created on 15/7/2022. Last modified 15/7/2022

### 5.5 Gestion de Stock diagram

Interaction diagram in package '5.5 Gestion de Stock'

5.5 Gestion de Stock  
Version 1.0  
Rody created on 15/7/2022. Last modified 23/7/2022

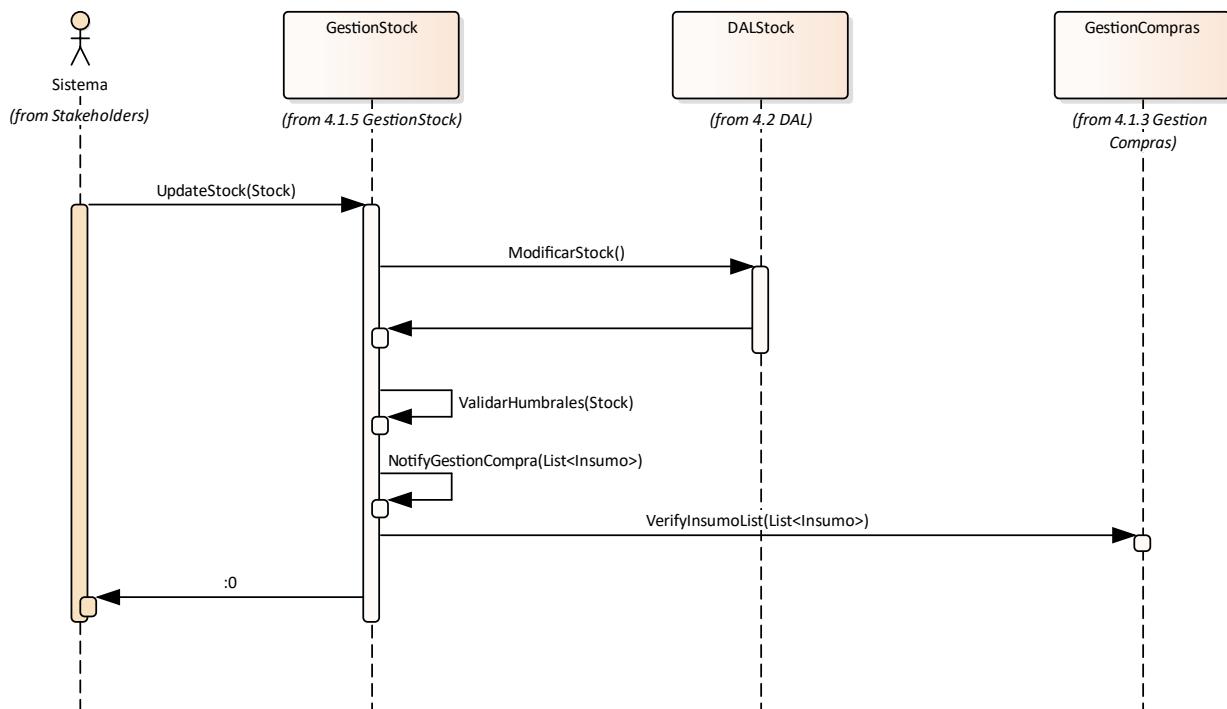


Figure 43: 5.5 Gestion de Stock

## 5.6 ABM System Users

*Package in package '5. Diagrama de Secuencia'*

5.6 ABM System Users

Version 1.0 Phase 1.0 Proposed

Rody created on 15/7/2022. Last modified 15/7/2022

## 5.6 ABM System Users diagram

*Interaction diagram in package '5.6 ABM System Users'*

5.6 ABM System Users

Version 1.0

Rody created on 15/7/2022. Last modified 23/7/2022

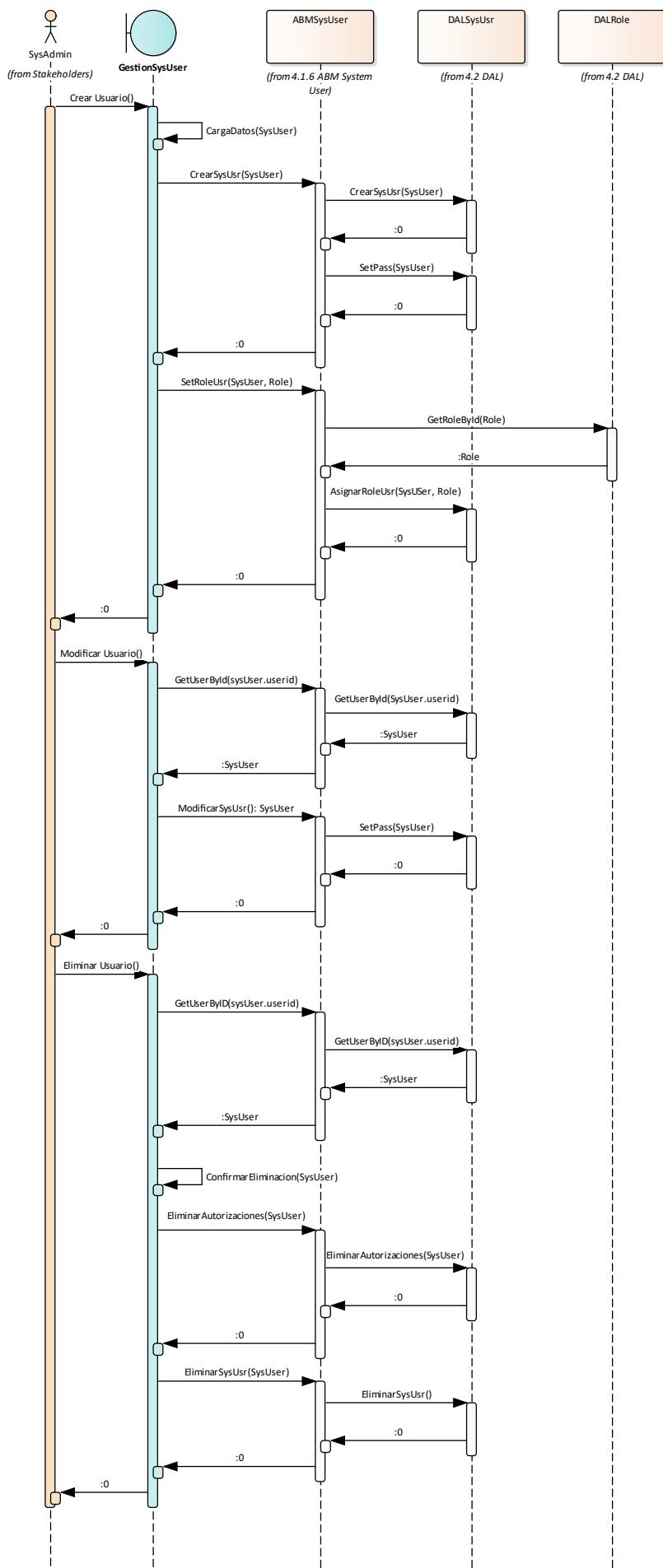


Figure 44: 5.6 ABM System Users

## 5.7 Gestión de Cobranza

Package in package '5. Diagrama de Secuencia'

5.7 Gestión de Cobranza  
Version 1.0 Phase 1.0 Proposed  
Rody created on 15/7/2022. Last modified 15/7/2022

## 5.7 Gestión de Cobranza diagram

Interaction diagram in package '5.7 Gestión de Cobranza'

5.7 Gestión de Cobranza  
Version 1.0  
Rody created on 15/7/2022. Last modified 23/7/2022

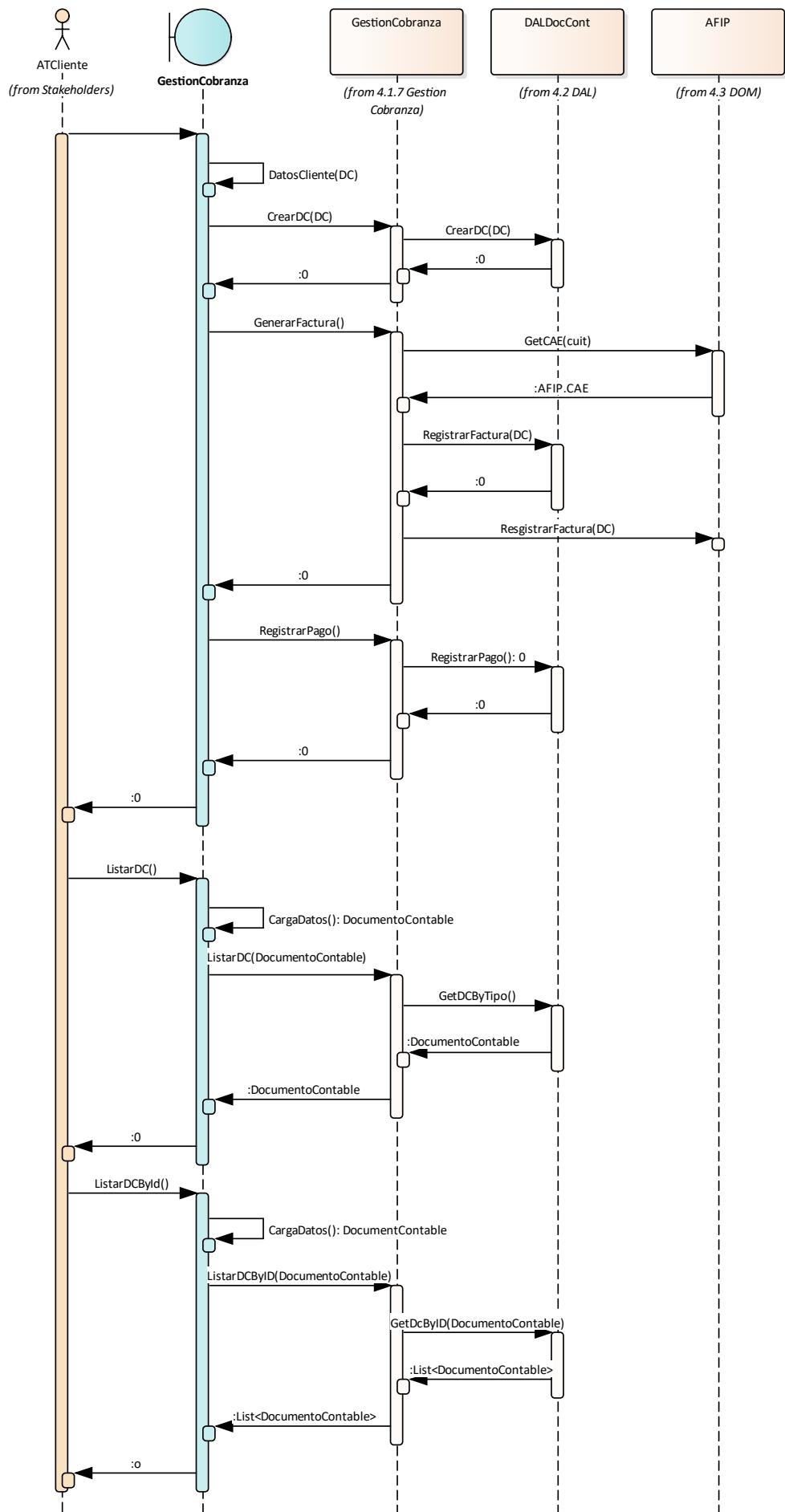


Figure 45: 5.7 Gestion de Cobranza

## 6. Diagrama de Componentes

Package in package 'Sdental'

6. Diagrama de Componentes  
Version 1.0 Phase 1.0 Proposed  
Rody created on 27/5/2022. Last modified 27/5/2022

### 6. Diagrama de Componentes diagram

Component diagram in package '6. Diagrama de Componentes'

6. Diagrama de Componentes  
Version 1.0  
Rody created on 22/7/2022. Last modified 22/7/2022

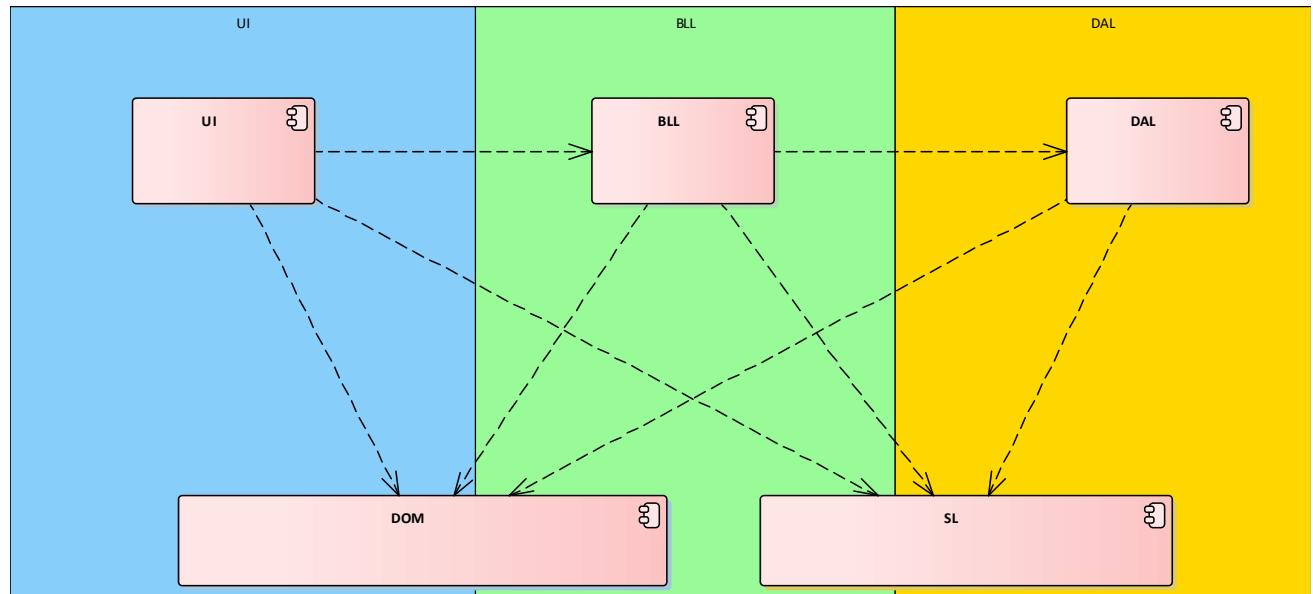


Figure 46: 6. Diagrama de Componentes

## 7. Diagrama Entidad-Relacion

*Package in package 'Sdental'*

7. Diagrama Entidad-Relacion  
Version 1.0 Phase 1.0 Proposed  
Rody created on 27/5/2022. Last modified 27/5/2022

## 8. Despliegue

*Package in package 'Sdental'*

8. Despliegue  
Version 1.0 Phase 1.0 Proposed  
Rody created on 27/5/2022. Last modified 27/5/2022

## 8. Despliegue diagram

*Deployment diagram in package '8. Despliegue'*

8. Despliegue  
Version 1.0  
Rody created on 22/7/2022. Last modified 22/7/2022

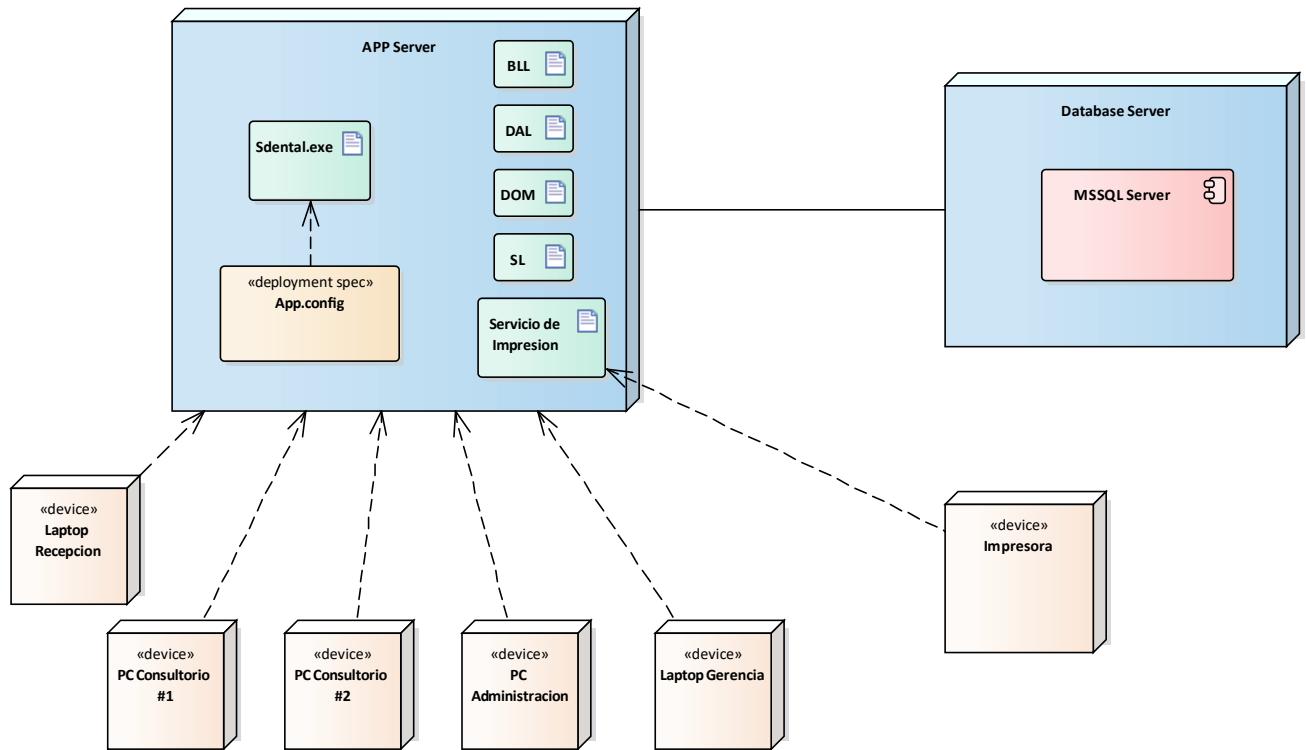


Figure 47: 8. Despliegue

## 9. User Interface Model

Package in package 'Sdental'

9. User Interface Model  
Version 1.0 Phase 1.0 Proposed  
Rody created on 27/5/2022. Last modified 27/5/2022

### 9.1 Welcome Screen

Package in package '9. User Interface Model'

9.1 Welcome Screen  
Version 1.0 Phase 1.0 Proposed  
Rody created on 22/7/2022. Last modified 22/7/2022

### 9.1 Welcome Screen diagram

User Interface diagram in package '9.1 Welcome Screen'

9.1 Welcome Screen  
Version 1.0  
Rody created on 22/7/2022. Last modified 22/7/2022

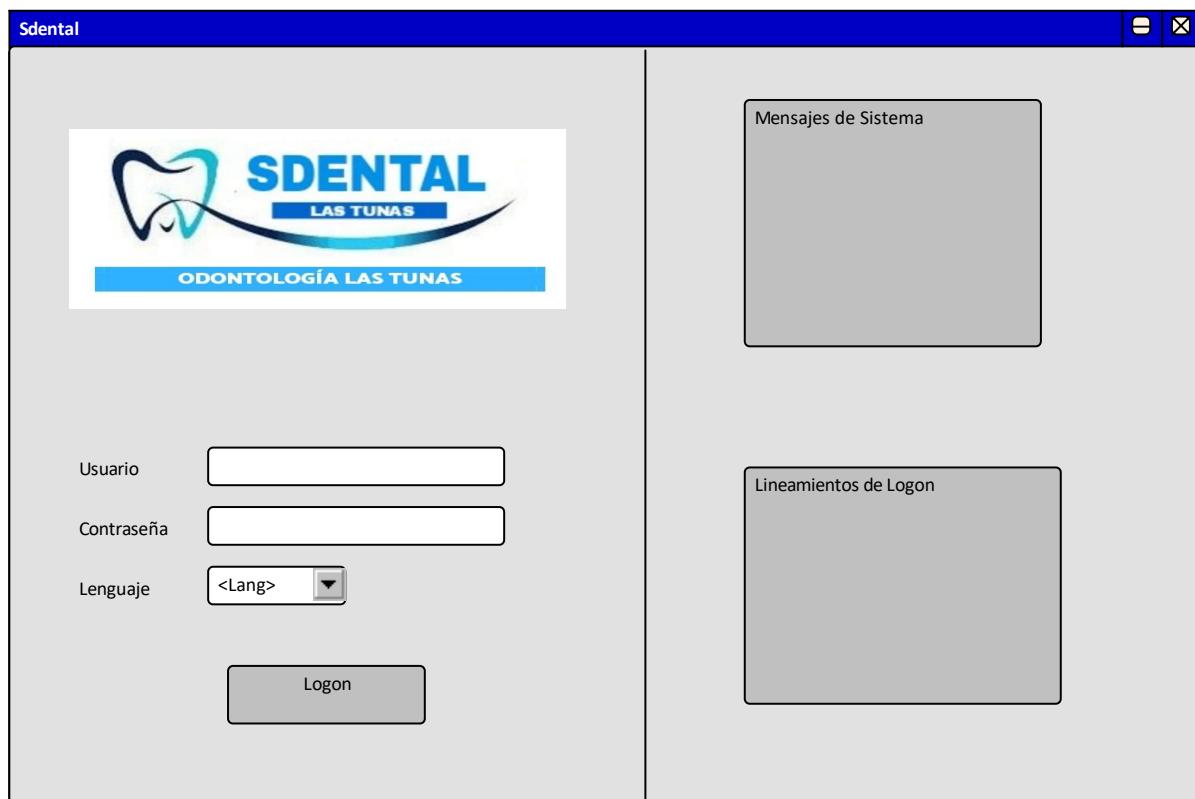


Figure 48: 9.1 Welcome Screen

## 9.2 Menu de Seleccion

Package in package '9. User Interface Model'

9.2 Menu de Seleccion  
Version 1.0 Phase 1.0 Proposed  
Rody created on 22/7/2022. Last modified 22/7/2022

## 9.2 Menu de Seleccion diagram

User Interface diagram in package '9.2 Menu de Seleccion'

9.2 Menu de Seleccion  
Version 1.0  
Rody created on 22/7/2022. Last modified 22/7/2022



Figure 49: 9.2 Menu de Seleccion

## 9.3 Gestión de Turnos

Package in package '9. User Interface Model'

9.3 Gestión de Turnos  
Version 1.0 Phase 1.0 Proposed  
Rody created on 22/7/2022. Last modified 22/7/2022

### 9.3 Gestión de Turnos diagram

User Interface diagram in package '9.3 Gestión de Turnos'

9.3 Gestión de Turnos  
Version 1.0  
Rody created on 22/7/2022. Last modified 22/7/2022

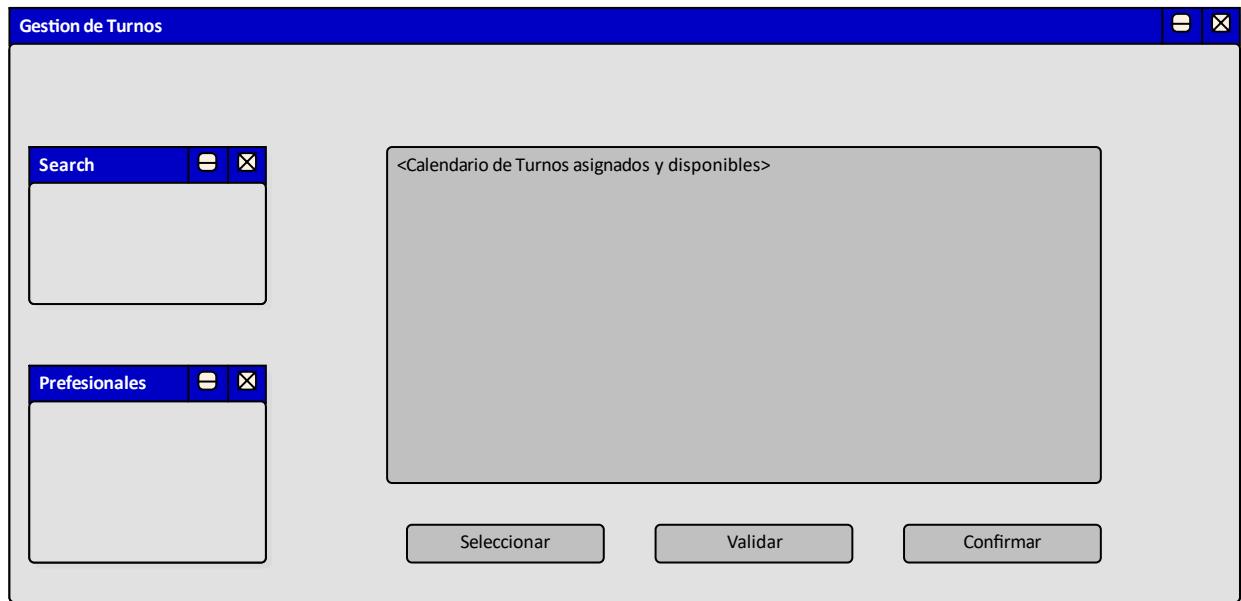


Figure 50: 9.3 Gestión de Turnos

## 9.4 Prestacion Medica

Package in package '9. User Interface Model'

9.4 Prestacion Medica  
Version 1.0 Phase 1.0 Proposed  
Rody created on 22/7/2022. Last modified 22/7/2022

### 9.4 Prestacion Medica diagram

User Interface diagram in package '9.4 Prestacion Medica'

9.4 Prestacion Medica  
Version 1.0  
Rody created on 22/7/2022. Last modified 22/7/2022

The screenshot shows a Windows-style application window titled "Historia Clinica". At the top left, there are three input fields: "Paciente" with placeholder "<Nombre Apellido>", "Obra Social" with placeholder "<Obra Social número>", and "Fecha" with placeholder "< Fecha >". Below these, the window is divided into two main sections: "Historico" on the left and "Insumos utilizados" on the right. The "Historico" section contains a large text area labeled "< Detalles Atención >". To its right are four buttons: "Requiere nuevo turno" (with a checked checkbox), "Atencion realizada" (with a checked checkbox), "Fin tratamiento" (with a checked checkbox), and "Guardar Historico". The "Insumos utilizados" section features a scrollable list box labeled "< Insumos >" containing a single item. At the bottom right of this section is a button labeled "Confirmar".

Figure 51: 9.4 Prestacion Medica

## 9.5 Gestión de Pacientes

*Package in package '9. User Interface Model'*

9.5 Gestión de Pacientes  
Version 1.0 Phase 1.0 Proposed  
Rody created on 22/7/2022. Last modified 22/7/2022

### 9.5 Gestión de Pacientes diagram

*User Interface diagram in package '9.5 Gestión de Pacientes'*

9.5 Gestión de Pacientes  
Version 1.0  
Rody created on 22/7/2022. Last modified 22/7/2022

The screenshot shows a Windows-style application window titled "Alta Clientes". In the top-left corner, there is a logo for "SDENTAL LAS TUNAS" with the subtext "ODONTOLOGÍA LAS TUNAS". To the right of the logo is a smaller window titled "Search Cliente" with a single input field. The main body of the window contains several text input fields labeled "Nombre", "Apellido", "DNI", "Direccion", "Cod Post", "Partido", "Obra Social", "Nº", "Tel", and "Mail". Below these fields are two buttons: "Validar" on the left and "Guardar" on the right.

Figure 52: 9.5 Gestión de Pacientes

## 9.6 Gestión Compras

Package in package '9. User Interface Model'

9.6 Gestión Compras  
Version 1.0 Phase 1.0 Proposed  
Rody created on 22/7/2022. Last modified 22/7/2022

### 9.6 Gestión Compras diagram

User Interface diagram in package '9.6 Gestión Compras'

9.6 Gestión Compras  
Version 1.0  
Rody created on 22/7/2022. Last modified 22/7/2022

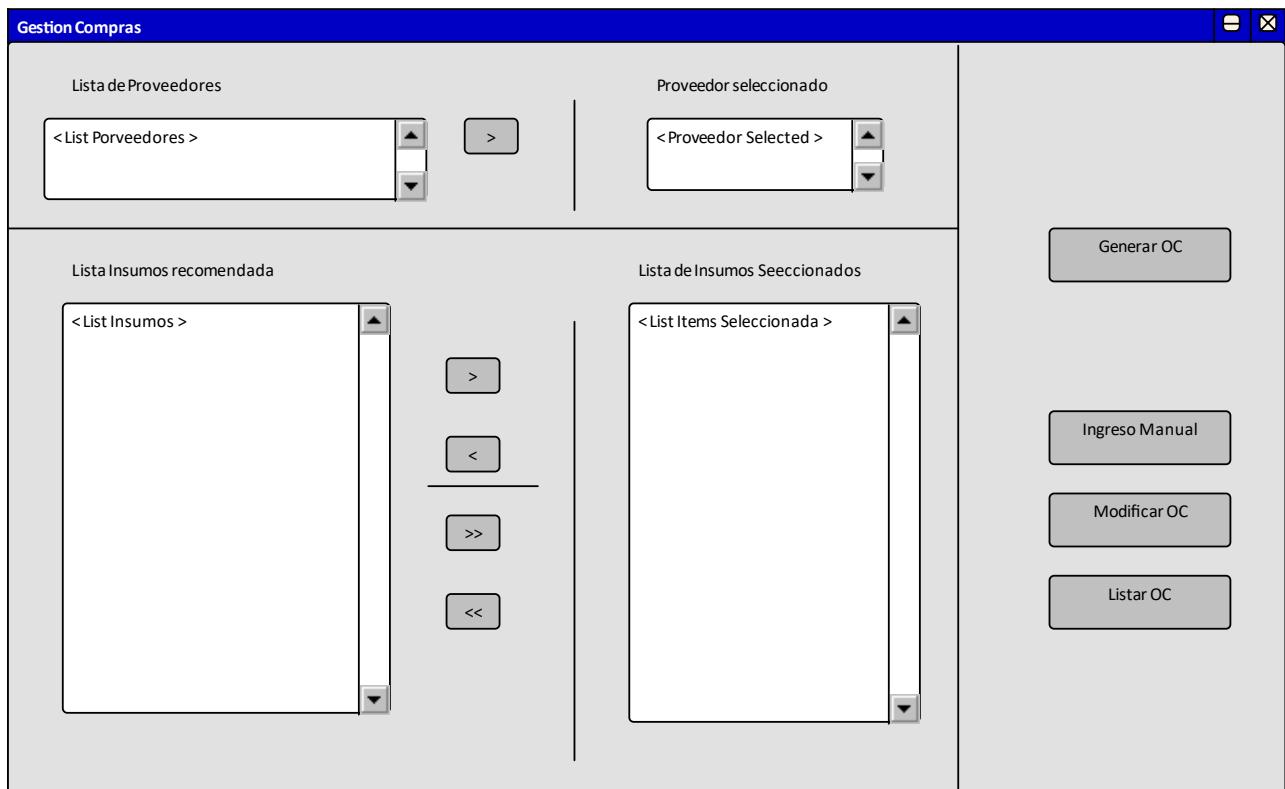


Figure 53: 9.6 Gestión Compras

## 9.7 Aprobaciones

Package in package '9. User Interface Model'

9.7 Aprobaciones  
Version 1.0 Phase 1.0 Proposed  
Rody created on 22/7/2022. Last modified 22/7/2022

### 9.7 Aprobaciones diagram

User Interface diagram in package '9.7 Aprobaciones'

9.7 Aprobaciones  
Version 1.0  
Rody created on 22/7/2022. Last modified 22/7/2022

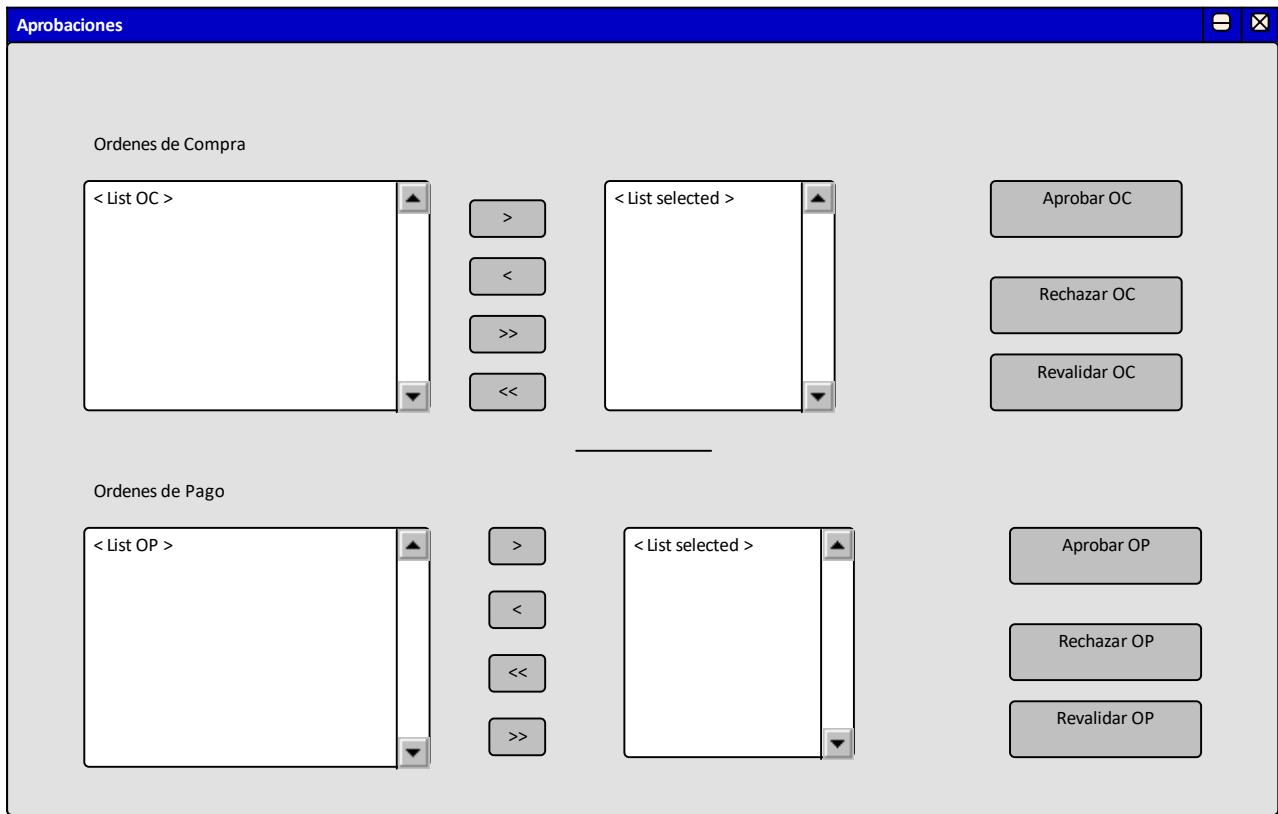


Figure 54: 9.7 Aprobaciones

## <<DataModel>> SQLServer

*Package in package 'Sdental'*

<<DataModel>> SQLServer  
Version 1.0 Phase 1.0 Proposed  
Rody created on 27/5/2022. Last modified 27/5/2022

## Extra

*Package in package 'Sdental'*

Extra  
Version 1.0 Phase 1.0 Proposed  
Rody created on 27/5/2022. Last modified 22/7/2022

## ArqBase

*Package in package 'Extra'*

ArqBase  
Version 1.0 Phase 1.0 Proposed  
Rody created on 22/7/2022. Last modified 22/7/2022

## Gestion de Log

*Package in package 'ArqBase'*

Gestion de Log  
Version 1.0 Phase 1.0 Proposed  
Rody created on 22/7/2022. Last modified 22/7/2022

## Gestion de Log diagram

*Requirements diagram in package 'Gestion de Log'*

Gestion de Log  
Version 1.0  
Rody created on 22/7/2022. Last modified 22/7/2022



Figure 55: Gestion de Log

## ARQ.001

*Package in package 'Gestion de Log'*

ARQ.001  
Version 1.0 Phase 1.0 Proposed  
Rody created on 22/7/2022. Last modified 22/7/2022

## ARQ.001 diagram

*Use Case diagram in package 'ARQ.001'*

ARQ.001

Version 1.0

Rody created on 22/7/2022. Last modified 22/7/2022

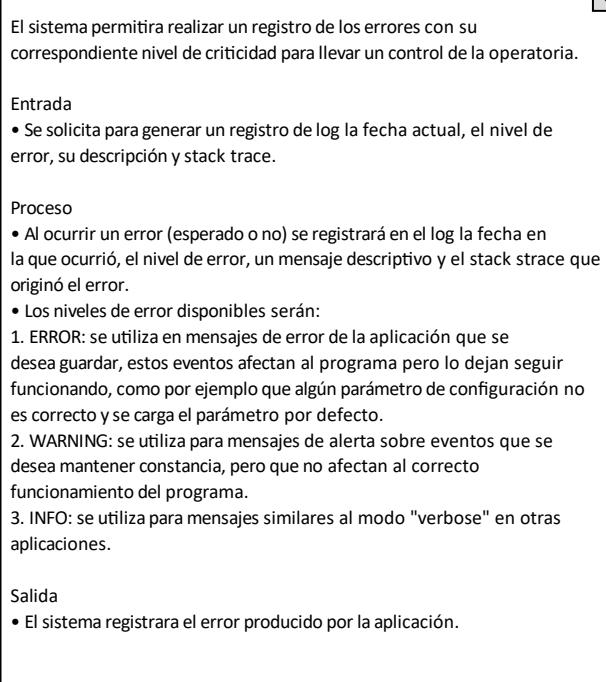


Figure 56: ARQ.001

**ARQ.002***Package in package 'Gestion de Log'*

ARQ.002  
Version 1.0 Phase 1.0 Proposed  
Rody created on 22/7/2022. Last modified 22/7/2022

**ARQ.002 diagram***Use Case diagram in package 'ARQ.002'*

ARQ.002  
Version 1.0  
Rody created on 22/7/2022. Last modified 22/7/2022

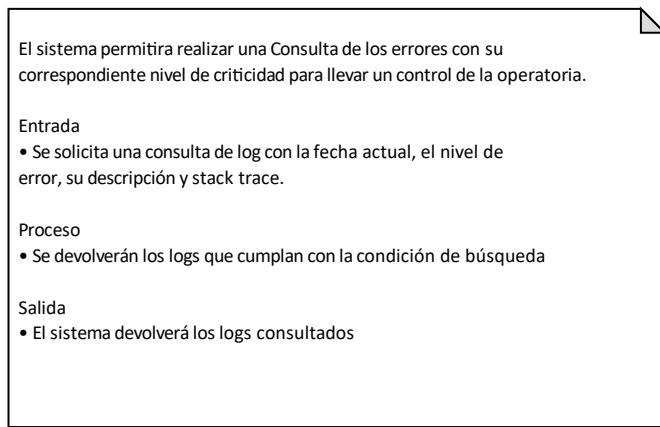


Figure 57: ARQ.002

## Gestion Seguridad

Package in package 'ArqBase'

Gestion Seguridad  
Version 1.0 Phase 1.0 Proposed  
Rody created on 22/7/2022. Last modified 22/7/2022

### Gestion Seguridad diagram

Documentation diagram in package 'Gestion Seguridad'

Gestion Seguridad  
Version 1.0  
Rody created on 22/7/2022. Last modified 22/7/2022

#### Autenticación

El sistema deberá poseer la capacidad de mantener la consistencia de la base de datos para evitar que sea modificada por fuera de la misma. Para ello realiza el cálculo del dígito verificador doble (horizontal y vertical), para mantener la consistencia de la base de datos (tabla usuarios), y que no pueda ser modificada por fuera de la aplicación.

##### Entrada:

- Autenticación del usuario (login) Proceso:
  - Se verifica la integridad de la base de datos.
  - Se realiza el cálculo independiente de cada dígito verificador vertical y luego horizontal.
  - Se compara el dígito verificador calculado con el que se obtuvo de la base de datos, entonces se verifica la integridad

##### Salida:

Se obtiene a través del sistema el código hash y se verifica la consistencia de la base de datos.

#### Autotizaciones

El sistema obtendrá recibiendo un objeto Usuario, el hash correspondiente al mismo, para poder ser insertado en la base de datos como dígito verificador horizontal.

##### Entrada:

- Objeto usuario

##### Proceso:

- Se recibe un objeto usuario por parámetro este tiene cada uno de los atributos del objeto, se los convierte en formato String, y se los suma uno a continuación del otro.
- En este paso se realiza la conversión a cadena hash
- El sistema devuelve el hash calculado.

##### Salida:

Un usuario estará habilitado a ingresar al sistema.

Figure 58: Gestion Seguridad

## Gestion de Errores

Package in package 'ArqBase'

Gestion de Errores  
Version 1.0 Phase 1.0 Proposed  
Rody created on 22/7/2022. Last modified 22/7/2022

### Gestion de Errores diagram

Use Case diagram in package 'Gestion de Errores'

Gestion de Errores  
Version 1.0  
Rody created on 22/7/2022. Last modified 22/7/2022



Figure 59: Gestion de Errores

## ARQ.003

Package in package 'Gestion de Errores'

ARQ.003  
Version 1.0 Phase 1.0 Proposed  
Rody created on 22/7/2022. Last modified 22/7/2022

### ARQ.003 diagram

Use Case diagram in package 'ARQ.003'

ARQ.003  
Version 1.0  
Rody created on 22/7/2022. Last modified 22/7/2022

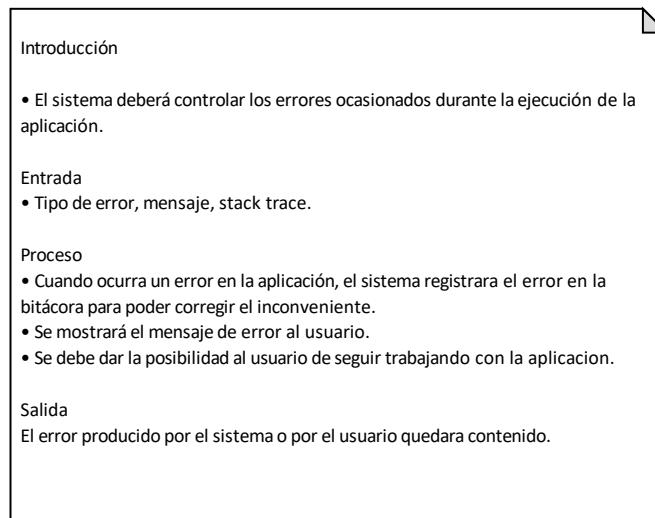


Figure 60: ARQ.003

## Gestion Multi idioma

Package in package 'ArqBase'

Gestion Multi idioma  
Version 1.0 Phase 1.0 Proposed  
Rody created on 22/7/2022. Last modified 22/7/2022

### Gestion Multi idioma diagram

Use Case diagram in package 'Gestion Multi idioma'

Gestion Multi idioma  
Version 1.0  
Rody created on 22/7/2022. Last modified 22/7/2022

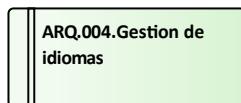


Figure 61: Gestion Multi idioma

## ARQ.004

Package in package 'Gestion Multi idioma'

ARQ.004  
Version 1.0 Phase 1.0 Proposed  
Rody created on 22/7/2022. Last modified 22/7/2022

### ARQ.004 diagram

Use Case diagram in package 'ARQ.004'

ARQ.004  
Version 1.0  
Rody created on 22/7/2022. Last modified 22/7/2022

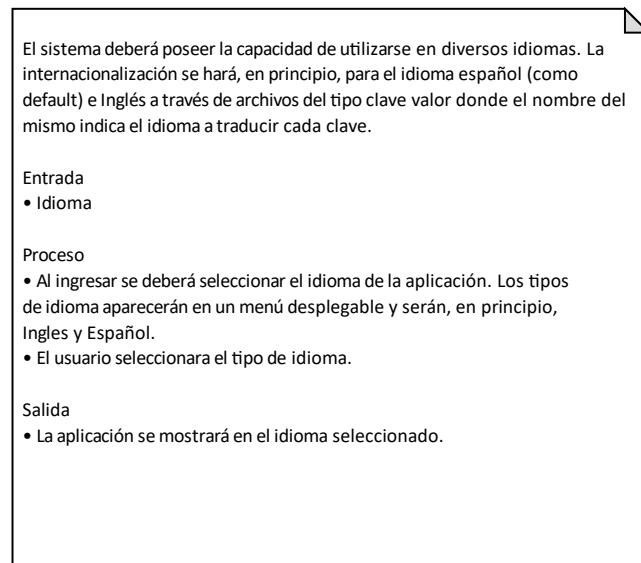


Figure 62: ARQ.004

