Model

Package in package ''

Use Case Model

Package in package 'Model'

Use Case Model diagram

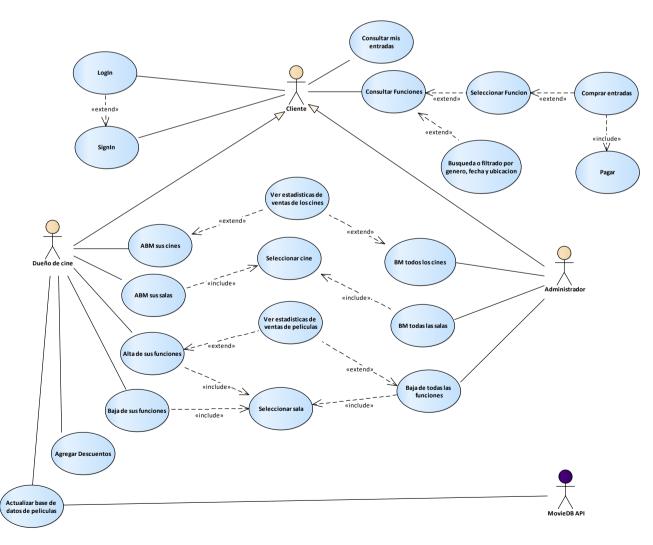*Use Case diagram in package 'Use Case Model'*

Figure 1: Use Case Model

Actors

Package in package 'Use Case Model'

<div align="right">

Actors
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020

</div>

Actors diagram

Use Case diagram in package 'Actors'

<div align="right">

Actors
Version 1.0
ivanc created on 21/11/2020. Last modified 21/11/2020

</div>

User

Figure 2: Actors

User

Actor in package 'Actors'

<div align="right">

User
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020

</div>

OUTGOING BEHAVIORAL RELATIONSHIPS

Sequence from User to Object1

CONNECTORS

UseCaseLink   Source -> Destination
From: User : Actor, Public
To: Use Case1 : UseCase, Public

UseCaseLink   Source -> Destination
From: User : Actor, Public
To: Use Case2 : UseCase, Public

Primary Use Cases

Package in package 'Use Case Model'

<div align="right">

Primary Use Cases
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020

</div>

Primary Use Cases diagram

Use Case diagram in package 'Primary Use Cases'

<div align="right">

Primary Use Cases
Version 1.0
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</div>

Figure 3: Primary Use Cases
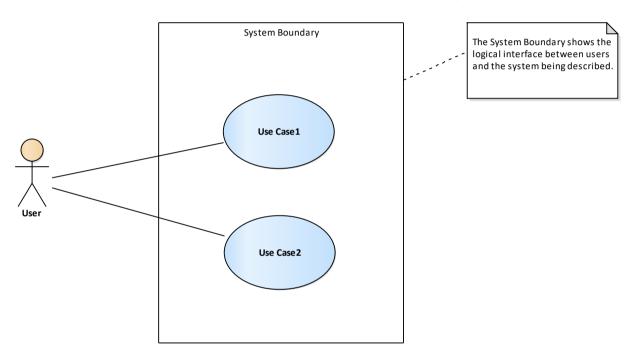
User

Actor in package 'Actors'

<div align="right">

User
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020

</div>

OUTGOING BEHAVIORAL RELATIONSHIPS
Sequence from User to Object1

CONNECTORS
UseCaseLink   Source -> Destination From: User : Actor, Public To: Use Case1 : UseCase, Public

CONNECTORS

➚ **UseCaseLink**   Source -> Destination
From: User : Actor, Public
To: Use Case2 : UseCase, Public

System Boundary

Boundary in package 'Primary Use Cases'

System Boundary
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020
Extends

Note

Note in package 'Primary Use Cases'

The System Boundary shows the logical interface between users and the system being described.

Note
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020
Extends

Use Case1

UseCase in package 'Primary Use Cases'

Use Case1
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ELEMENTS OWNED BY Use Case1

🗎 Object1 : Sequence

CONNECTORS

➚ **UseCaseLink**   Source -> Destination
From: User : Actor, Public
To: Use Case1 : UseCase, Public

Use Case1 diagram

Interaction diagram in package 'Primary Use Cases'
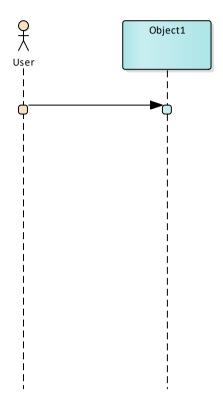
Figure 4: Use Case1

User

Actor in package 'Actors'

OUTGOING BEHAVIORAL RELATIONSHIPS
← Sequence from User to Object1

CONNECTORS
↗ **UseCaseLink**   Source -> Destination From: User : Actor, Public To: Use Case1 : UseCase, Public
↗ **UseCaseLink**   Source -> Destination From: User : Actor, Public To: Use Case2 : UseCase, Public

INTERACTION MESSAGES

✉ **1.0 ''** from 'User' sent to 'Object1'.

Synchronous Call.

[Return is False. Iteration is False. New group is False.]

Object1

Sequence owned by 'Use Case1', in package 'Primary Use Cases'

Object1
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020

INCOMING BEHAVIORAL RELATIONSHIPS

⇒ Sequence from User to Object1

Use Case2

UseCase in package 'Primary Use Cases'

Use Case2
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020

CONNECTORS

↗ **UseCaseLink**   Source -> Destination
From: User : Actor, Public
To: Use Case2 : UseCase, Public

Administrador

Actor in package 'Use Case Model'

Administrador
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020

OUTGOING STRUCTURAL RELATIONSHIPS

⬅ Generalization from Administrador to Cliente

[Direction is 'Source -> Destination'.]

ASSOCIATIONS

✎ Association (direction: Unspecified)

ASSOCIATIONS	
Source: Public (Actor) Administrador	Target: Public (UseCase) BM todos los cines

✎ Association (direction: Unspecified)

Source: Public (Actor) Administrador	Target: Public (UseCase) BM todas las salas

✎ Association (direction: Unspecified)

Source: Public (Actor) Administrador	Target: Public (UseCase) Baja de todas las funciones

Cliente

Actor in package 'Use Case Model'

Cliente
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020

INCOMING STRUCTURAL RELATIONSHIPS
➡ Generalization from Administrador to Cliente
[Direction is 'Source -> Destination'.]
➡ Generalization from Dueño de cine to Cliente
[Direction is 'Source -> Destination'.]

CONNECTORS

⤢ **UseCaseLink**   Source -> Destination
From: Cliente : Actor, Public
To: Consultar Funciones : UseCase, Public

⤢ **UseCaseLink**   Source -> Destination
From: SignIn : UseCase, Public
To: Cliente : Actor, Public

⤢ **UseCaseLink**   Source -> Destination
From: Consultar mis entradas : UseCase, Public
To: Cliente : Actor, Public

⤢ **UseCaseLink**   Source -> Destination
From: LogIn : UseCase, Public
To: Cliente : Actor, Public

Compañia de credito

Actor in package 'Use Case Model'

Compañia de credito
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020

Dueño de cine

Actor in package 'Use Case Model'

Dueño de cine
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020

OUTGOING STRUCTURAL RELATIONSHIPS

⬅ Generalization from Dueño de cine to Cliente

[Direction is 'Source -> Destination'.]

ASSOCIATIONS

🖉 Association (direction: Unspecified)

Source: Public (Actor) Dueño de cine   Target: Public (UseCase) Agregar Descuentos

---

🖉 Association (direction: Unspecified)

Source: Public (Actor) Dueño de cine   Target: Public (UseCase) ABM sus salas

---

🖉 Association (direction: Unspecified)

Source: Public (Actor) Dueño de cine   Target: Public (UseCase) Alta de sus funciones

---

🖉 Association (direction: Unspecified)

Source: Public (Actor) Dueño de cine   Target: Public (UseCase) ABM sus cines

---

🖉 Association (direction: Unspecified)

Source: Public (Actor) Dueño de cine   Target: Public (UseCase) Actualizar base de datos de peliculas

---

🖉 Association (direction: Unspecified)

Source: Public (UseCase) Baja de sus funciones   Target: Public (Actor) Dueño de cine

Compañia de credito

Actor in package 'Use Case Model'

MovieDB API

Actor in package 'Use Case Model'

<div align="right">

MovieDB API
Version 1.0 Phase 1.0 Proposed
ivanc created on 23/11/2020. Last modified 23/11/2020

</div>

ASSOCIATIONS

✏ Association (direction: Unspecified)

Source: Public (Actor) MovieDB API   Target: Public (UseCase) Actualizar base de datos de peliculas

UseCase

UseCase in package 'Use Case Model'

<div align="right">

UseCase
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020

</div>

ABM sus cines

UseCase in package 'Use Case Model'

Registro, modificacion y baja de los cines

<div align="right">

ABM sus cines
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020
Alias 9

</div>

RESPONSIBILITIES (INTERNAL REQUIREMENTS)

☑ Functional. LogIn

<div align="right">

[Proposed, Medium difficulty.]

</div>

SCENARIOS

⊞ Basic Path. Basic Path

1. Agregar, borrar o modificar cine seleccionado
   Uses:
   Dueño de cine
2. Efectuar cambio en la base de datos
   Uses:
   Sistema

CONNECTORS

CONNECTORS

⤴ **Extend** «extend»   Source -> Destination
From: Ver estadisticas de ventas de los cines : UseCase, Public
To: ABM sus cines : UseCase, Public

ASSOCIATIONS

✏ Association (direction: Unspecified)

Source: Public (Actor) Dueño de cine   Target: Public (UseCase) ABM sus cines

ABM sus salas

UseCase in package 'Use Case Model'

Registro, modificacion y baja de las salas

ABM sus salas
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020
Alias 11

RESPONSIBILITIES (INTERNAL REQUIREMENTS)

☑ Functional. LogIn

[Proposed, Medium difficulty.]

SCENARIOS

⊞ Basic Path. Basic Path

1. Agregar, borrar o modificar sala seleccionada
       Uses:
       Dueño de cine
2. Efectuar cambio en la base de datos
       Uses:
       Sistema

CONNECTORS

⤴ **Include** «include»   Source -> Destination
From: ABM sus salas : UseCase, Public
To: Seleccionar cine : UseCase, Public

ASSOCIATIONS

✏ Association (direction: Unspecified)

ASSOCIATIONS	
Source: Public (Actor) Dueño de cine	Target: Public (UseCase) ABM sus salas

Actualizar base de datos de peliculas

UseCase in package 'Use Case Model'

Actualizar base de datos de peliculas
Version 1.0 Phase 1.0 Proposed
ivanc created on 23/11/2020. Last modified 23/11/2020

RESPONSIBILITIES (INTERNAL REQUIREMENTS)
☑ Functional. LogIn
[Proposed, Medium difficulty.]

ASSOCIATIONS
🖊 Association (direction: Unspecified)
Source: Public (Actor) MovieDB API	Target: Public (UseCase) Actualizar base de datos de peliculas
🖊 Association (direction: Unspecified)
Source: Public (Actor) Dueño de cine	Target: Public (UseCase) Actualizar base de datos de peliculas

Agregar Descuentos

UseCase in package 'Use Case Model'

Agregar Descuentos
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020
Alias 15

RESPONSIBILITIES (INTERNAL REQUIREMENTS)
☑ Functional. La compañia de credito ofrezca descuento
[Proposed, Medium difficulty.]
☑ Functional. LogIn
[Proposed, Medium difficulty.]

ASSOCIATIONS
🖊 Association (direction: Unspecified)

ASSOCIATIONS
Source: Public (Actor) Dueño de cine   Target: Public (UseCase) Agregar Descuentos

Alta de sus funciones

UseCase in package 'Use Case Model'

Alta de sus funciones
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020
Alias 13

RESPONSIBILITIES (INTERNAL REQUIREMENTS)
☑ Functional. LogIn
[Proposed, Medium difficulty.]

SCENARIOS

⊞ Basic Path. Basic Path

1. Seleccionar Pelicula
     Uses:
     Dueño de cine
2. Seleccionar Horario y fecha
     Uses:
     Dueño de cine
     Exception: *2a.*   Si el horario no esta disponible
     Exception: *2b.*   Si ya esta exhibida en otra sala en el dia seleccionado
3. Agregar a la cartelera
     Uses:
     Sistema

⊞ Exception. Si el horario no esta disponible

⊞ Exception. Si ya esta exhibida en otra sala en el dia seleccionado

CONNECTORS

↗ **Include** «include»   Source -> Destination
From: Alta de sus funciones : UseCase, Public
To: Seleccionar sala : UseCase, Public

↗ **Extend** «extend»   Source -> Destination
From: Ver estadisticas de ventas de peliculas : UseCase, Public
To: Alta de sus funciones : UseCase, Public

ASSOCIATIONS

✏ Association (direction: Unspecified)

Source: Public (Actor) Dueño de cine   Target: Public (UseCase) Alta de sus funciones

BM todas las salas

UseCase in package 'Use Case Model'

BM todas las salas
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020
Alias 18

RESPONSIBILITIES (INTERNAL REQUIREMENTS)

☑ Functional. LogIn

[Proposed, Medium difficulty.]

SCENARIOS

⚏ Basic Path. Basic Path

1. Modificar o borrar cine seleccionado
     Uses:
     Administrador
     Exception: *1a.*   Si hay tickets vendidos no se borra
2. Efectuar cambio en la base de datos
     Uses:
     Sistema

⚏ Exception. Si hay tickets vendidos no se borra

CONNECTORS

↗ **Include** «include»   Source -> Destination
From: BM todas las salas : UseCase, Public
To: Seleccionar cine : UseCase, Public

ASSOCIATIONS

✏ Association (direction: Unspecified)

Source: Public (Actor) Administrador   Target: Public (UseCase) BM todas las salas

BM todos los cines

UseCase in package 'Use Case Model'

BM todos los cines
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020
Alias 17

RESPONSIBILITIES (INTERNAL REQUIREMENTS)

☑ Functional. LogIn

[Proposed, Medium difficulty.]

SCENARIOS

Basic Path. Basic Path

1. Modificar o borrar cine seleccionado
   Uses:
   Administrador
   Exception: *1a.*   Si hay tickets vendidos no se borra
2. Efectuar cambio en la base de datos
   Uses:
   Sistema

Exception. Si hay tickets vendidos no se borra

CONNECTORS

↗ **Extend** «extend»   Source -> Destination
From: Ver estadisticas de ventas de los cines : UseCase, Public
To: BM todos los cines : UseCase, Public

ASSOCIATIONS

✎ Association (direction: Unspecified)

Source: Public (Actor) Administrador   Target: Public (UseCase) BM todos los cines

Baja de sus funciones

UseCase in package 'Use Case Model'

Baja de sus funciones
Version 1.0 Phase 1.0 Proposed
ivanc created on 21/11/2020. Last modified 21/11/2020

RESPONSIBILITIES (INTERNAL REQUIREMENTS)

RESPONSIBILITIES (INTERNAL REQUIREMENTS)

☑ Functional. LogIn

[Proposed, Medium difficulty.]

SCENARIOS

⊞ Basic Path. Basic Path

1. seleccionar funcion a eliminar
    Exception: *1a.*   si la funcion ya tiene tickets comprados
2. se elimina la funcion de la base datos

⊞ Exception. si la funcion ya tiene tickets comprados

CONNECTORS

↗ **Include** «include»   Source -> Destination
From: Baja de sus funciones : UseCase, Public
To: Seleccionar sala : UseCase, Public

ASSOCIATIONS

✎ Association (direction: Unspecified)

Source: Public (UseCase) Baja de sus funciones   Target: Public (Actor) Dueño de cine

Baja de todas las funciones

UseCase in package 'Use Case Model'

Baja de todas las funciones
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020
Alias 19

RESPONSIBILITIES (INTERNAL REQUIREMENTS)

☑ Functional. LogIn

[Proposed, Medium difficulty.]

SCENARIOS

⊞ Basic Path. Basic Path

1. Modificar o borrar cine seleccionado
    Uses:
    Administrador

SCENARIOS

Exception: *1a.* Si hay tickets vendidos no se borra

2. Efectuar cambio en la base de datos

Uses:

Sistema

⊞ Exception. Si hay tickets vendidos no se borra

CONNECTORS

↗ **Include** «include»   Source -> Destination

From: Baja de todas las funciones : UseCase, Public

To: Seleccionar sala : UseCase, Public

↗ **Extend** «extend»   Source -> Destination

From: Ver estadisticas de ventas de peliculas : UseCase, Public

To: Baja de todas las funciones : UseCase, Public

ASSOCIATIONS

✎ Association (direction: Unspecified)

Source: Public (Actor) Administrador	Target: Public (UseCase) Baja de todas las funciones

Borrar Funcion

UseCase in package 'Use Case Model'

Borrar Funcion
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020

Borrar Sala

UseCase in package 'Use Case Model'

Borrar Sala
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020

Borrar cine

UseCase in package 'Use Case Model'

Borrar cine
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020

Busqueda o filtrado por genero, fecha y ubicacion

UseCase in package 'Use Case Model'

Busqueda o filtrado por genero, fecha y ubicacion
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020
Alias 5

CONNECTORS

   ↗ **Extend** «extend»   Source -> Destination
From: Busqueda o filtrado por genero, fecha y ubicacion : UseCase, Public
To: Consultar Funciones : UseCase, Public

Comprar entradas

UseCase in package 'Use Case Model'

Comprar entradas
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020
Alias 7

SCENARIOS

   ⊞ Basic Path. Basic Path

1. Caso de uso Pagar
    Uses:
    Cliente
2. Generar y mostrar entradas compradas
    Uses:
    Sistema

CONNECTORS

   ↗ **Extend** «extend»   Source -> Destination
From: Comprar entradas : UseCase, Public
To: Seleccionar Funcion : UseCase, Public

   ↗ **Include** «include»   Source -> Destination
From: Comprar entradas : UseCase, Public
To: Pagar : UseCase, Public

   ↗ **Extend** «extend»   Source -> Destination
From: Pagar Entradas : UseCase, Public
To: Comprar entradas : UseCase, Public

Consultar Funciones

UseCase in package 'Use Case Model'

<div align="right">
Consultar Funciones
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020
Alias 4
</div>

CONNECTORS

↗ **Extend** «extend»   Source -> Destination

From: Busqueda o filtrado por genero, fecha y ubicacion : UseCase, Public
To: Consultar Funciones : UseCase, Public

↗ **UseCaseLink**   Source -> Destination

From: Cliente : Actor, Public
To: Consultar Funciones : UseCase, Public

↗ **Extend** «extend»   Source -> Destination

From: Seleccionar Funcion : UseCase, Public
To: Consultar Funciones : UseCase, Public

Consultar mis entradas

UseCase in package 'Use Case Model'

ver la lista de entradas compradas habiles de la cuenta

<div align="right">
Consultar mis entradas
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020
Alias 3
</div>

RESPONSIBILITIES (INTERNAL REQUIREMENTS)

☑ Functional. LogIn

<div align="right">[Proposed, Medium difficulty.]</div>

CONNECTORS

↗ **UseCaseLink**   Source -> Destination

From: Consultar mis entradas : UseCase, Public
To: Cliente : Actor, Public

LogIn

UseCase in package 'Use Case Model'

<div align="right">
LogIn
</div>

RESPONSIBILITIES (INTERNAL REQUIREMENTS)

☑ Functional. SignIn

[Proposed, Medium difficulty.]

CONNECTORS

↗ **UseCaseLink**   Source -> Destination
From: LogIn : UseCase, Public
To: Cliente : Actor, Public

↗ **Extend** «extend»   Source -> Destination
From: LogIn : UseCase, Public
To: SignIn : UseCase, Public

Pagar

UseCase in package 'Use Case Model'

SCENARIOS

⊞ Basic Path. Basic Path

1. Sistema muestra si hay descuetos
   Uses:
   Sistema
2. Cargar datos de tarjeta
   Uses:
   Cliente
3. Realizar transaccion
   Uses:
   Banco

CONNECTORS

↗ **Include** «include»   Source -> Destination
From: Comprar entradas : UseCase, Public
To: Pagar : UseCase, Public

Pagar Entradas

UseCase in package 'Use Case Model'

<div align="right">
Pagar Entradas
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020
</div>

CONNECTORS

Extend «extend»   Source -> Destination
From: Pagar Entradas : UseCase, Public
To: Comprar entradas : UseCase, Public

Seleccionar Funcion

UseCase in package 'Use Case Model'

seleccion de la funcion segun fecha, hora, ubicacion, precio y asientos disponibles

<div align="right">
Seleccionar Funcion
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020
Alias 6
</div>

RESPONSIBILITIES (INTERNAL REQUIREMENTS)

☑ Functional. LogIn

<div align="right">[Proposed, Medium difficulty.]</div>

CONNECTORS

Extend «extend»   Source -> Destination
From: Seleccionar Funcion : UseCase, Public
To: Consultar Funciones : UseCase, Public

Extend «extend»   Source -> Destination
From: Comprar entradas : UseCase, Public
To: Seleccionar Funcion : UseCase, Public

Seleccionar cine

UseCase in package 'Use Case Model'

<div align="right">
Seleccionar cine
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020
Alias 12
</div>

CONNECTORS

CONNECTORS

    ↗ **Include** «include»   Source -> Destination
From: ABM sus salas : UseCase, Public
To: Seleccionar cine : UseCase, Public

    ↗ **Include** «include»   Source -> Destination
From: BM todas las salas : UseCase, Public
To: Seleccionar cine : UseCase, Public

Seleccionar sala

UseCase in package 'Use Case Model'

Seleccionar sala
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020
Alias 14

CONNECTORS

    ↗ **Include** «include»   Source -> Destination
From: Baja de sus funciones : UseCase, Public
To: Seleccionar sala : UseCase, Public

    ↗ **Include** «include»   Source -> Destination
From: Alta de sus funciones : UseCase, Public
To: Seleccionar sala : UseCase, Public

    ↗ **Include** «include»   Source -> Destination
From: Baja de todas las funciones : UseCase, Public
To: Seleccionar sala : UseCase, Public

SignIn

UseCase in package 'Use Case Model'

SignIn
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020
Alias 2

CONNECTORS

    ↗ **UseCaseLink**   Source -> Destination
From: SignIn : UseCase, Public
To: Cliente : Actor, Public

CONNECTORS

⟋ **Extend** «extend»   Source -> Destination
From: LogIn : UseCase, Public
To: SignIn : UseCase, Public

Ver estadisticas de ventas de los cines

UseCase in package 'Use Case Model'

estadisiticas sobre la venta en pesos de un cine en especifico entre dos fechas seleccionadas

Ver estadisticas de ventas de los cines
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020
Alias 10

SCENARIOS

⊞ Basic Path. Basic Path

1. Seleccionar rango de fechas
        Uses:
        Dueño de cine
2. Mostrar estadisticas segun el rango
        Uses:
        Sistema

CONNECTORS

⟋ **Extend** «extend»   Source -> Destination
From: Ver estadisticas de ventas de los cines : UseCase, Public
To: BM todos los cines : UseCase, Public

⟋ **Extend** «extend»   Source -> Destination
From: Ver estadisticas de ventas de los cines : UseCase, Public
To: ABM sus cines : UseCase, Public

Ver estadisticas de ventas de peliculas

UseCase in package 'Use Case Model'

estadisiticas sobre la venta en pesos de una pelicula en especifico entre dos fechas seleccionadas

Ver estadisticas de ventas de peliculas
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020
Alias 16

SCENARIOS

SCENARIOS

Basic Path. Basic Path

1. Seleccionar rango de fechas
    Uses:
    Dueño de cine
2. Mostrar estadisticas segun el rango
    Uses:
    Sistema

CONNECTORS

Extend «extend»   Source -> Destination

From: Ver estadisticas de ventas de peliculas : UseCase, Public
To: Baja de todas las funciones : UseCase, Public

Extend «extend»   Source -> Destination

From: Ver estadisticas de ventas de peliculas : UseCase, Public
To: Alta de sus funciones : UseCase, Public

SCENARIOS

Basic Path. Basic Path

Class diagram

Package in package 'Model'

Class diagram diagram

Class diagram in package 'Class diagram'
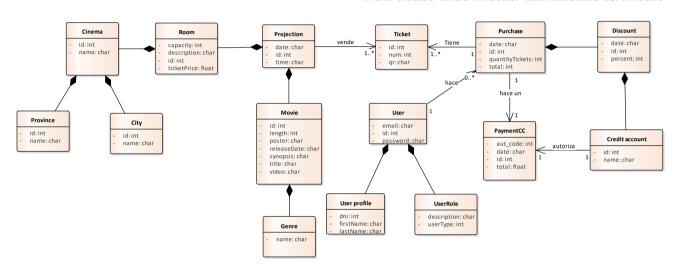
Figure 5: Class diagram

Admin

Class in package 'Class diagram'

Cinema

Class in package 'Class diagram'

OUTGOING STRUCTURAL RELATIONSHIPS

⬅ Aggregation from Cinema to Room

[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

➡ Aggregation from Province to Cinema

[Direction is 'Source -> Destination'.]

➡ Aggregation from City to Cinema

[Direction is 'Source -> Destination'.]

ATTRIBUTES

◆ id : int Private

[Is static False. Containment is Not Specified.]

◆ name : char Private

[Is static False. Containment is Not Specified.]

Cinema owner

Class in package 'Class diagram'

Cinema owner
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City

Class in package 'Class diagram'

City
Version 1.0 Phase 1.0 Proposed
ivanc created on 21/11/2020. Last modified 21/11/2020

OUTGOING STRUCTURAL RELATIONSHIPS

⬅ Aggregation from City to Cinema

[Direction is 'Source -> Destination'.]

ATTRIBUTES

◆ id : int Private

[Is static False. Containment is Not Specified.]

◆ name : char Private

[Is static False. Containment is Not Specified.]

Client

Class in package 'Class diagram'

<div align="right">

Client
Version 1.0 Phase 1.0 Proposed
ivanc created on 20/11/2020. Last modified 20/11/2020

</div>

Credit account

Class in package 'Class diagram'

<div align="right">

Credit account
Version 1.0 Phase 1.0 Proposed
ivanc created on 20/11/2020. Last modified 20/11/2020

</div>

OUTGOING STRUCTURAL RELATIONSHIPS

⬅ Aggregation from Credit account to Discount

[Direction is 'Source -> Destination'.]

ATTRIBUTES

◆ id : int Private

[Is static False. Containment is Not Specified.]

◆ name : char Private

[Is static False. Containment is Not Specified.]

ASSOCIATIONS

✏ Association (direction: Source -> Destination)   autoriza

Source: Public (Class) Credit account   Target: Public (Class) PaymentCC
   Cardinality: [1]   Cardinality: [1]

Discount

Class in package 'Class diagram'

<div align="right">

Discount
Version 1.0 Phase 1.0 Proposed
ivanc created on 20/11/2020. Last modified 20/11/2020

</div>

OUTGOING STRUCTURAL RELATIONSHIPS

⬅ Aggregation from Discount to Purchase

[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

INCOMING STRUCTURAL RELATIONSHIPS

➡ Aggregation from Credit account to Discount

[Direction is 'Source -> Destination'.]

ATTRIBUTES

◆ date : char Private

[Is static False. Containment is Not Specified.]

◆ id : int Private

[Is static False. Containment is Not Specified.]

◆ percent : int Private

[Is static False. Containment is Not Specified.]

Genre

Class in package 'Class diagram'

Genre
Version 1.0 Phase 1.0 Proposed
ivanc created on 20/11/2020. Last modified 20/11/2020

OUTGOING STRUCTURAL RELATIONSHIPS

⬅ Aggregation from Genre to Movie

[Direction is 'Source -> Destination'.]

ATTRIBUTES

◆ name : char Private

[Is static False. Containment is Not Specified.]

Movie

Class in package 'Class diagram'

Movie
Version 1.0 Phase 1.0 Proposed
ivanc created on 20/11/2020. Last modified 20/11/2020

OUTGOING STRUCTURAL RELATIONSHIPS

⬅ Aggregation from Movie to Projection

[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

➡ Aggregation from Genre to Movie

[Direction is 'Source -> Destination'.]

ATTRIBUTES

◆ id : int Private

[Is static False. Containment is Not Specified.]

◆ length : int Private

[Is static False. Containment is Not Specified.]

◆ poster : char Private

[Is static False. Containment is Not Specified.]

◆ releaseDate : char Private

[Is static False. Containment is Not Specified.]

◆ synopsis : char Private

[Is static False. Containment is Not Specified.]

◆ title : char Private

[Is static False. Containment is Not Specified.]

◆ video : char Private

[Is static False. Containment is Not Specified.]

PaymentCC

Class in package 'Class diagram'

PaymentCC
Version 1.0 Phase 1.0 Proposed
ivanc created on 20/11/2020. Last modified 21/11/2020

ATTRIBUTES

◆ aut_code : int Private

[Is static False. Containment is Not Specified.]

◆ date : char Private

[Is static False. Containment is Not Specified.]

◆ id : int Private

[Is static False. Containment is Not Specified.]

ATTRIBUTES

◆ total : float Private

[Is static False. Containment is Not Specified.]

ASSOCIATIONS

✏ Association (direction: Source -> Destination)   hace un

Source: Public (Class) Purchase   Target: Public (Class) PaymentCC
   Cardinality: [1]   Cardinality: [1]

✏ Association (direction: Source -> Destination)   autoriza

Source: Public (Class) Credit account   Target: Public (Class) PaymentCC
   Cardinality: [1]   Cardinality: [1]

Projection

Class in package 'Class diagram'

Projection
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INCOMING STRUCTURAL RELATIONSHIPS

➡ Aggregation from Movie to Projection

[Direction is 'Source -> Destination'.]

➡ Aggregation from Room to Projection

[Direction is 'Source -> Destination'.]

ATTRIBUTES

◆ date : char Private

[Is static False. Containment is Not Specified.]

◆ id : int Private

[Is static False. Containment is Not Specified.]

◆ time : char Private

[Is static False. Containment is Not Specified.]

ASSOCIATIONS

ASSOCIATIONS

✏️ Association (direction: Source -> Destination)   vende

Source: Public (Class) Projection   Target: Public (Class) Ticket
                                                                          Cardinality: [1..*]

Province

Class in package 'Class diagram'

Province
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OUTGOING STRUCTURAL RELATIONSHIPS

⬅️ Aggregation from Province to Cinema

[Direction is 'Source -> Destination'.]

ATTRIBUTES

🔹 id : int Private

[Is static False. Containment is Not Specified.]

🔹 name : char Private

[Is static False. Containment is Not Specified.]

Purchase

Class in package 'Class diagram'

Purchase
Version 1.0 Phase 1.0 Proposed
ivanc created on 20/11/2020. Last modified 20/11/2020

INCOMING STRUCTURAL RELATIONSHIPS

➡️ Aggregation from Discount to Purchase

[Direction is 'Source -> Destination'.]

ATTRIBUTES

🔹 date : char Private

[Is static False. Containment is Not Specified.]

🔹 id : int Private

[Is static False. Containment is Not Specified.]

ATTRIBUTES

◆ quantityTickets : int Private

[Is static False. Containment is Not Specified.]

◆ total : int Private

[Is static False. Containment is Not Specified.]

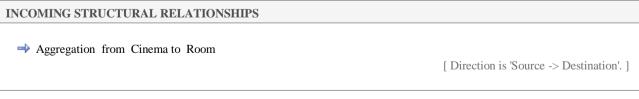| ASSOCIATIONS |
| --- |

✎ Association (direction: Source -> Destination)   Tiene

Source: Public (Class) Purchase   Target: Public (Class) Ticket
   Cardinality: [1]   Cardinality: [1..*]

✎ Association (direction: Source -> Destination)   hace un

Source: Public (Class) Purchase   Target: Public (Class) PaymentCC
   Cardinality: [1]   Cardinality: [1]

✎ Association (direction: Source -> Destination)   hace

Source: Public (Class) User   Target: Public (Class) Purchase
   Cardinality: [1]   Cardinality: [0..*]

Room

Class in package 'Class diagram'

Room
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OUTGOING STRUCTURAL RELATIONSHIPS

⬅ Aggregation from Room to Projection

[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

➡ Aggregation from Cinema to Room

[Direction is 'Source -> Destination'.]

ATTRIBUTES

◆ capacity : int Private

[Is static False. Containment is Not Specified.]

ATTRIBUTES

🔷 description : char Private

[Is static False. Containment is Not Specified.]

🔷 id : int Private

[Is static False. Containment is Not Specified.]

🔷 ticketPrice : float Private

[Is static False. Containment is Not Specified.]

Ticket

Class in package 'Class diagram'

Ticket
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ATTRIBUTES

🔷 id : int Private

[Is static False. Containment is Not Specified.]

🔷 num : int Private

[Is static False. Containment is Not Specified.]

🔷 qr : char Private

[Is static False. Containment is Not Specified.]

ASSOCIATIONS

✏ Association (direction: Source -> Destination)   vende

Source: Public (Class) Projection   Target: Public (Class) Ticket
                                                            Cardinality: [1..*]

✏ Association (direction: Source -> Destination)   Tiene

Source: Public (Class) Purchase   Target: Public (Class) Ticket
    Cardinality: [1]   Cardinality: [1..*]

User

Class in package 'Class diagram'

User

INCOMING STRUCTURAL RELATIONSHIPS

➡ Aggregation from UserRole to User

[Direction is 'Source -> Destination'.]

➡ Aggregation from User profile to User

[Direction is 'Source -> Destination'.]

ATTRIBUTES

◆ email : char Private

[Is static False. Containment is Not Specified.]

◆ id : int Private

[Is static False. Containment is Not Specified.]

◆ password : char Private

[Is static False. Containment is Not Specified.]

ASSOCIATIONS

✎ Association (direction: Source -> Destination)   hace

Source: Public (Class) User   Target: Public (Class) Purchase
   Cardinality: [1]   Cardinality: [0..*]

User profile

Class in package 'Class diagram'

OUTGOING STRUCTURAL RELATIONSHIPS

⬅ Aggregation from User profile to User

[Direction is 'Source -> Destination'.]

ATTRIBUTES

◆ dni : int Private

[Is static False. Containment is Not Specified.]

ATTRIBUTES
🔷 firstName : char Private
[Is static False. Containment is Not Specified.]
🔷 lastName : char Private
[Is static False. Containment is Not Specified.]

UserRole

Class in package 'Class diagram'

UserRole
Version 1.0 Phase 1.0 Proposed
ivanc created on 20/11/2020. Last modified 21/11/2020

OUTGOING STRUCTURAL RELATIONSHIPS
⬅ Aggregation from UserRole to User
[Direction is 'Source -> Destination'.]

ATTRIBUTES
🔷 description : char Private
[Is static False. Containment is Not Specified.]
🔷 userType : int Private
[Is static False. Containment is Not Specified.]

Domain Model

Package in package 'Model'

Domain Model diagram

Class diagram in package 'Domain Model'
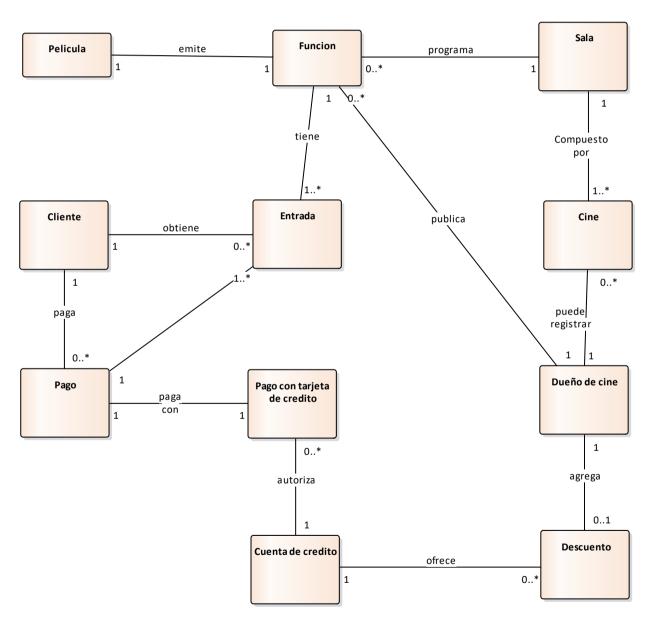
Figure 6: Domain Model

Domain Objects

Package in package 'Domain Model'

<div align="right">

Domain Objects
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020

</div>

Domain Objects diagram

Class diagram in package 'Domain Objects'

<div align="right">

Domain Objects
Version 1.0
ivanc created on 21/11/2020. Last modified 21/11/2020

</div>

The Domain class model captures essential
information about objects in the domain.

Class1

Class3

Class2
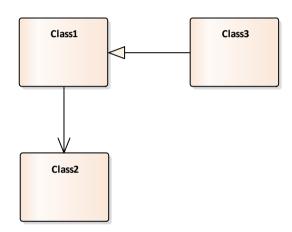
Figure 7:   Domain Objects

Note

Note in package 'Domain Objects'

The Domain class model captures essential information about objects in the domain.

<div align="right">

Note
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Extends

</div>

Class1

Class in package 'Domain Objects'

<div align="right">

Class1
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020

</div>

INCOMING STRUCTURAL RELATIONSHIPS

INCOMING STRUCTURAL RELATIONSHIPS

➡ Generalization from Class3 to Class1

[Direction is 'Source -> Destination'.]

ASSOCIATIONS

✏ Association (direction: Source -> Destination)

Source: Public (Class) Class1   Target: Public (Class) Class2

Class2

Class in package 'Domain Objects'

Class2
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020

ASSOCIATIONS

✏ Association (direction: Source -> Destination)

Source: Public (Class) Class1   Target: Public (Class) Class2

Class3

Class in package 'Domain Objects'

Class3
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020
Extends Class1

OUTGOING STRUCTURAL RELATIONSHIPS
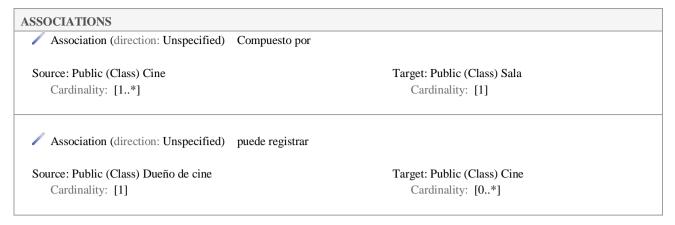
⬅ Generalization from Class3 to Class1

[Direction is 'Source -> Destination'.]

Cine

Class in package 'Domain Model'

Cine
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020

ASSOCIATIONS

ASSOCIATIONS

✏ Association (direction: Unspecified)   Compuesto por

Source: Public (Class) Cine   Target: Public (Class) Sala
  Cardinality: [1..*]   Cardinality: [1]

✏ Association (direction: Unspecified)   puede registrar

Source: Public (Class) Dueño de cine   Target: Public (Class) Cine
  Cardinality: [1]   Cardinality: [0..*]

Cliente

Class in package 'Domain Model'

Cliente
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020

ASSOCIATIONS

✏ Association (direction: Unspecified)   paga

Source: Public (Class) Cliente   Target: Public (Class) Pago
  Cardinality: [1]   Cardinality: [0..*]

✏ Association (direction: Unspecified)   obtiene

Source: Public (Class) Cliente   Target: Public (Class) Entrada
  Cardinality: [1]   Cardinality: [0..*]

Cuenta de credito

Class in package 'Domain Model'

Cuenta de credito
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020

ASSOCIATIONS

✏ Association (direction: Unspecified)   ofrece

Source: Public (Class) Cuenta de credito   Target: Public (Class) Descuento
  Cardinality: [1]   Cardinality: [0..*]

✏ Association (direction: Unspecified)   autoriza

Source: Public (Class) Pago con tarjeta de credito   Target: Public (Class) Cuenta de credito
  Cardinality: [0..*]   Cardinality: [1]

ASSOCIATIONS

Descuento

Class in package 'Domain Model'

Descuento
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020

ASSOCIATIONS

Association (direction: Unspecified)   ofrece

Source: Public (Class) Cuenta de credito	Target: Public (Class) Descuento
Cardinality: [1]	Cardinality: [0..*]

Association (direction: Unspecified)   agrega

Source: Public (Class) Dueño de cine	Target: Public (Class) Descuento
Cardinality: [1]	Cardinality: [0..1]

Dueño de cine

Class in package 'Domain Model'

Dueño de cine
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020

ASSOCIATIONS

Association (direction: Unspecified)   agrega

Source: Public (Class) Dueño de cine	Target: Public (Class) Descuento
Cardinality: [1]	Cardinality: [0..1]

Association (direction: Unspecified)   puede registrar

Source: Public (Class) Dueño de cine	Target: Public (Class) Cine
Cardinality: [1]	Cardinality: [0..*]

Association (direction: Unspecified)   publica

Source: Public (Class) Funcion	Target: Public (Class) Dueño de cine
Cardinality: [0..*]	Cardinality: [1]

Entrada

Class in package 'Domain Model'

<div align="right">

Entrada
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020

</div>

ASSOCIATIONS

Association (direction: Unspecified)   tiene

Source: Public (Class) Entrada	Target: Public (Class) Funcion
Cardinality: [1..*]	Cardinality: [1]

Association (direction: Unspecified)

Source: Public (Class) Pago	Target: Public (Class) Entrada
Cardinality: [1]	Cardinality: [1..*]

Association (direction: Unspecified)   obtiene

Source: Public (Class) Cliente	Target: Public (Class) Entrada
Cardinality: [1]	Cardinality: [0..*]

Funcion

Class in package 'Domain Model'

<div align="right">

Funcion
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020

</div>

ASSOCIATIONS

Association (direction: Unspecified)   publica

Source: Public (Class) Funcion	Target: Public (Class) Dueño de cine
Cardinality: [0..*]	Cardinality: [1]

Association (direction: Unspecified)   programa

Source: Public (Class) Funcion	Target: Public (Class) Sala
Cardinality: [0..*]	Cardinality: [1]

Association (direction: Unspecified)   tiene

Source: Public (Class) Entrada	Target: Public (Class) Funcion
Cardinality: [1..*]	Cardinality: [1]

Association (direction: Unspecified)   emite

ASSOCIATIONS

Source: Public (Class) Pelicula   Target: Public (Class) Funcion
    Cardinality: [1]   Cardinality: [1]

Pago

Class in package 'Domain Model'

Pago
Version 1.0 Phase 1.0 Proposed
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ASSOCIATIONS

Association (direction: Unspecified)   paga con

Source: Public (Class) Pago   Target: Public (Class) Pago con tarjeta de credito
    Cardinality: [1]   Cardinality: [1]

Association (direction: Unspecified)

Source: Public (Class) Pago   Target: Public (Class) Entrada
    Cardinality: [1]   Cardinality: [1..*]

Association (direction: Unspecified)   paga

Source: Public (Class) Cliente   Target: Public (Class) Pago
    Cardinality: [1]   Cardinality: [0..*]

Pago con tarjeta de credito

Class in package 'Domain Model'

Pago con tarjeta de credito
Version 1.0 Phase 1.0 Proposed
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ASSOCIATIONS

Association (direction: Unspecified)   autoriza

Source: Public (Class) Pago con tarjeta de credito   Target: Public (Class) Cuenta de credito
    Cardinality: [0..*]   Cardinality: [1]

Association (direction: Unspecified)   paga con

Source: Public (Class) Pago   Target: Public (Class) Pago con tarjeta de credito
    Cardinality: [1]   Cardinality: [1]

Pelicula

Class in package 'Domain Model'

Pelicula
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020

ASSOCIATIONS

✎ Association (direction: Unspecified)   emite

Source: Public (Class) Pelicula   Target: Public (Class) Funcion
  Cardinality: [1]   Cardinality: [1]

Sala

Class in package 'Domain Model'

Sala
Version 1.0 Phase 1.0 Proposed
nahue created on 21/11/2020. Last modified 21/11/2020

ASSOCIATIONS

✎ Association (direction: Unspecified)   Compuesto por

Source: Public (Class) Cine   Target: Public (Class) Sala
  Cardinality: [1..*]   Cardinality: [1]

✎ Association (direction: Unspecified)   programa

Source: Public (Class) Funcion   Target: Public (Class) Sala
  Cardinality: [0..*]   Cardinality: [1]