

Use Case Model

Package in package 'Model'

Use Case Model
Version Phase 1.0 Proposed
Gamer1 created on 18/11/2020. Last modified 18/11/2020

Use Case Model diagram

Use Case diagram in package 'Use Case Model'

Use Case Model
Version 1.0
Gamer1 created on 18/11/2020. Last modified 22/11/2020

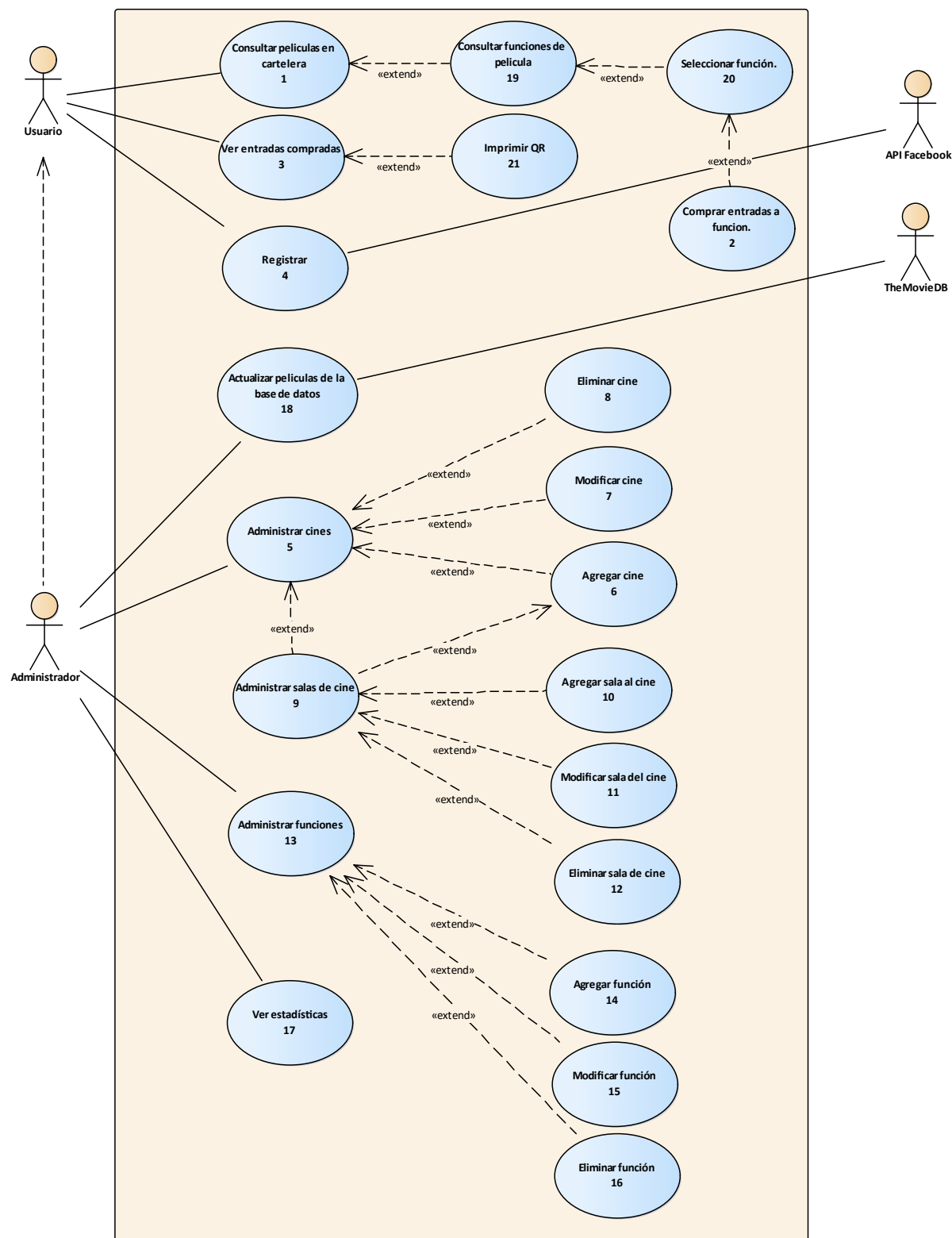


Figure 1: Use Case Model

Boundary

Boundary in package 'Use Case Model'

Boundary
Version 1.0 Phase 1.0 Proposed
Gamer1 created on 18/11/2020. Last modified 18/11/2020
Extends

Actors

Package in package 'Use Case Model'

Actors
Version 1.0 Phase 1.0 Proposed
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Actors diagram

Use Case diagram in package 'Actors'

Actors
Version 1.0
ileci created on 18/11/2020. Last modified 18/11/2020

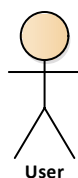


Figure 2: Actors

User


Actor in package 'Actors'

User
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OUTGOING BEHAVIORAL RELATIONSHIPS

Sequence from User to Object1

CONNECTORS

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

CONNECTORS

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

Primary Use Cases

Package in package 'Use Case Model'

Primary Use Cases
Version 1.0 Phase 1.0 Proposed
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Primary Use Cases diagram

Use Case diagram in package 'Primary Use Cases'

Primary Use Cases
Version 1.0
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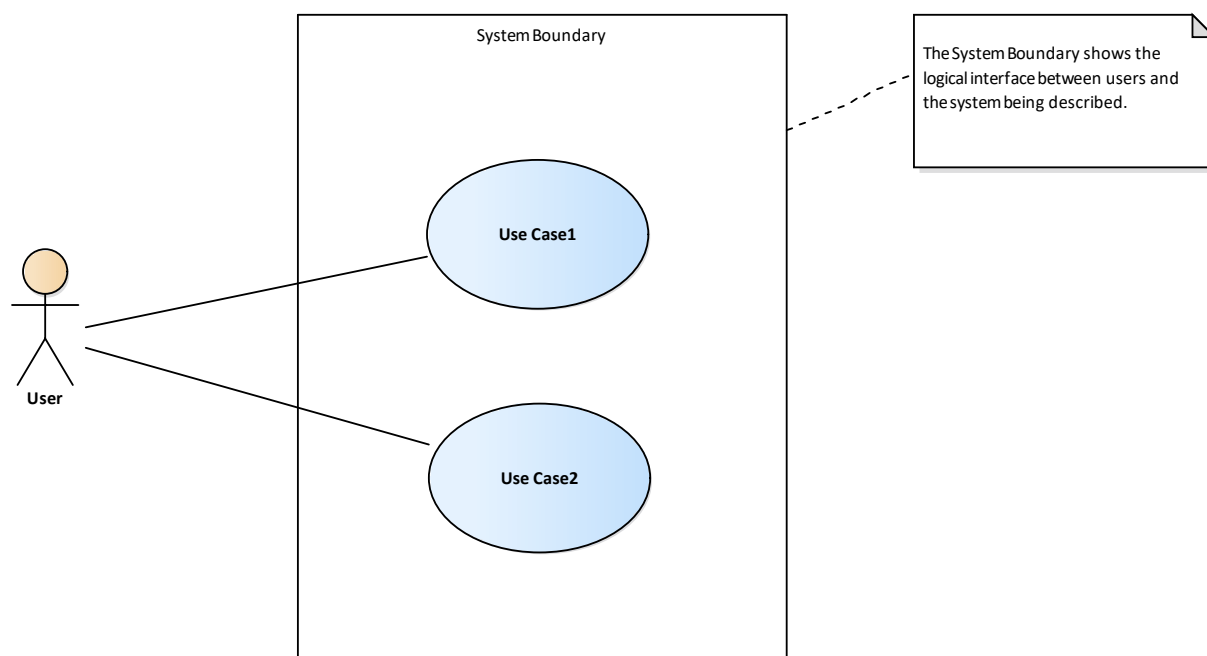


Figure 3: Primary Use Cases

User

Actor in package 'Actors'

User
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OUTGOING BEHAVIORAL RELATIONSHIPS

Sequence from User to Object1

CONNECTORS

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

CONNECTORS

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

System Boundary

Boundary in package 'Primary Use Cases'

System Boundary
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 Extends

Note

Note in package 'Primary Use Cases'

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


Note
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 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'

Use Case1

Version 1.0

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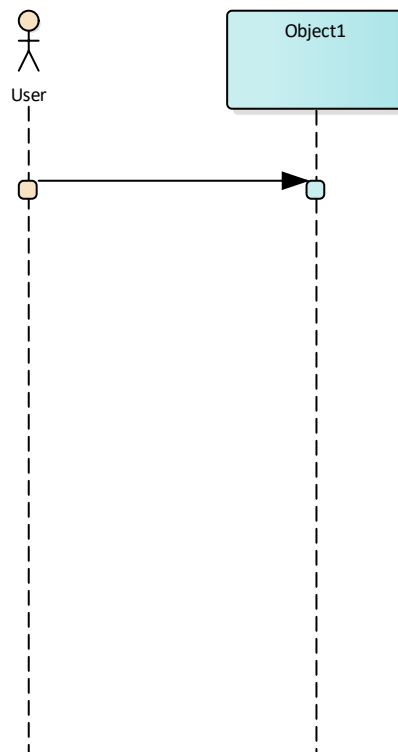


Figure 4: Use Case1

User

Actor in package 'Actors'

User

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OUTGOING BEHAVIORAL RELATIONSHIPS

Sequence from User to Object1

CONNECTORS

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

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

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INCOMING BEHAVIORAL RELATIONSHIPS

➡ Sequence from User to Object1

Use Case2

UseCase in package 'Primary Use Cases'

Use Case2

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CONNECTORS

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

API Facebook

Actor in package 'Use Case Model'

API Facebook

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ASSOCIATIONS

➡ Association (direction: Unspecified)

Source: Public (Actor) API Facebook


Target: Public (UseCase) Registrar
4


Administrador

Actor in package 'Use Case Model'

Administrador
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CONNECTORS

 **UseCaseLink** Source -> Destination
From: Administrador : Actor, Public
To: Actualizar peliculas de la base de datos
18 : UseCase, Public

 **Dependency** Source -> Destination
From: Administrador : Actor, Public
To: Usuario : Actor, Public

ASSOCIATIONS

 Association (direction: Unspecified)
Source: Public (Actor) Administrador Target: Public (UseCase) Administrar funciones
13

 Association (direction: Unspecified)
Source: Public (Actor) Administrador Target: Public (UseCase) Ver estadísticas
17


 Association (direction: Unspecified)
Source: Public (Actor) Administrador Target: Public (UseCase) Administrar cines
5

TheMovieDB

Actor in package 'Use Case Model'

TheMovieDB
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ASSOCIATIONS

 Association (direction: Unspecified)
Source: Public (UseCase) Actualizar peliculas de la base de datos Target: Public (Actor) TheMovieDB
18

Usuario


Actor in package 'Use Case Model'

Usuario

Version 1.0 Phase 1.0 Proposed

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CONNECTORS

 **Dependency** Source -> Destination
 From: Administrador : Actor, Public
 To: Usuario : Actor, Public

ASSOCIATIONS

 Association (direction: Unspecified)

Source: Public (Actor) Usuario

Target: Public (UseCase) Registrar
4

 Association (direction: Unspecified)

Source: Public (Actor) Usuario

Target: Public (UseCase) Consultar peliculas en
cartelera
1

 Association (direction: Unspecified)

Source: Public (Actor) Usuario

Target: Public (UseCase) Ver entradas compradas
3**Actualizar peliculas de la base de datos****18***UseCase in package 'Use Case Model'*


Actualizar peliculas de la base de datos

18

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CONNECTORS

 **UseCaseLink** Source -> Destination
 From: Administrador : Actor, Public
 To: Actualizar peliculas de la base de datos
 18 : UseCase, Public

ASSOCIATIONS

 Association (direction: Unspecified)

Source: Public (UseCase) Actualizar peliculas de la base de datos

Target: Public (Actor) TheMovieDB

ASSOCIATIONS

18

Administrar cines

5

UseCase in package 'Use Case Model'


Administrar cines


5


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CONNECTORS

 **Extend** «extend» Source -> Destination
 From: Modificar cine
 7 : UseCase, Public
 To: Administrar cines
 5 : UseCase, Public

 **Extend** «extend» Source -> Destination
 From: Eliminar cine
 8 : UseCase, Public
 To: Administrar cines
 5 : UseCase, Public

 **Extend** «extend» Source -> Destination
 From: Administrar salas de cine
 9 : UseCase, Public
 To: Administrar cines
 5 : UseCase, Public

 **Extend** «extend» Source -> Destination
 From: Agregar cine
 6 : UseCase, Public
 To: Administrar cines
 5 : UseCase, Public

ASSOCIATIONS

 Association (direction: Unspecified)

Source: Public (Actor) Administrador

Target: Public (UseCase) Administrar cines
5

Administrar funciones

13

UseCase in package 'Use Case Model'


Administrar funciones


13


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CONNECTORS

 **Extend** «extend» Source -> Destination
 From: Modificar función
 15 : UseCase, Public
 To: Administrar funciones
 13 : UseCase, Public

 **Extend** «extend» Source -> Destination
 From: Eliminar función
 16 : UseCase, Public
 To: Administrar funciones
 13 : UseCase, Public

 **Extend** «extend» Source -> Destination
 From: Agregar función
 14 : UseCase, Public
 To: Administrar funciones
 13 : UseCase, Public

ASSOCIATIONS

 Association (direction: Unspecified)

Source: Public (Actor) Administrador

Target: Public (UseCase) Administrar funciones
13**Administrar salas de cine****9***UseCase in package 'Use Case Model'*


Administrar salas de cine

9


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CONNECTORS


 **Extend** «extend» Source -> Destination
 From: Administrar salas de cine
 9 : UseCase, Public
 To: Agregar cine
 6 : UseCase, Public

CONNECTORS

 **Extend** «extend» Source -> Destination
 From: Administrar salas de cine
 9 : UseCase, Public
 To: Administrar cines
 5 : UseCase, Public

 **Extend** «extend» Source -> Destination
 From: Agregar sala al cine
 10 : UseCase, Public
 To: Administrar salas de cine
 9 : UseCase, Public

 **Extend** «extend» Source -> Destination
 From: Modificar sala del cine
 11 : UseCase, Public
 To: Administrar salas de cine
 9 : UseCase, Public

 **Extend** «extend» Source -> Destination
 From: Eliminar sala de cine
 12 : UseCase, Public
 To: Administrar salas de cine
 9 : UseCase, Public

Agregar cine

6

UseCase in package 'Use Case Model'


Agregar cine


6

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CONNECTORS

 **Extend** «extend» Source -> Destination
 From: Agregar cine
 6 : UseCase, Public
 To: Administrar cines
 5 : UseCase, Public

 **Extend** «extend» Source -> Destination
 From: Administrar salas de cine
 9 : UseCase, Public
 To: Agregar cine
 6 : UseCase, Public

Agregar función

UseCase in package 'Use Case Model'

Agregar función

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Agregar función

14

UseCase in package 'Use Case Model'

Agregar función

14

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ELEMENTS OWNED BY Agregar función

14



Agregar función

14_SequenceDiagram : Interaction

SCENARIOS



Basic Path. Secuencia Normal

1. Hace click en agregar función
2. Muestra pantalla de selección de película, cine, sala y fecha
3. Hace click en seleccionar película
4. Muestra lista de películas de la base de datos
5. Selecciona la película deseada
6. Cierra lista de películas
7. Muestra el póster y nombre de la película seleccionada
8. Selecciona el cine deseado
9. Actualiza lista de salas para mostrar las del cine seleccionado
10. Selecciona la sala deseada
11. Selecciona fecha deseada
12. Hace click en el botón enviar
13. Hace verificaciones correspondientes
 - Exception: 13a. Falla la verificación al intentar agregar la función
14. Agrega función a la base de datos
15. Vuelve a la lista de funciones




Exception. Falla la verificación al intentar agregar la función

1. Muestra un mensaje de error
2. Vuelve al paso 2 de la secuencia normal

CONNECTORS

CONNECTORS

 **Extend** «extend» Source -> Destination
 From: Agregar función
 14 : UseCase, Public
 To: Administrar funciones
 13 : UseCase, Public

Agregar función

14_SequenceDiagram

Interaction owned by 'Agregar función 14', in package 'Use Case Model'

Agregar función
 14_SequenceDiagram
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1_Basic_Path diagram

Interaction diagram in package 'Use Case Model'

1_Basic_Path
 Version 1.0
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Figure 5: 1_Basic_Path

Agregar sala al cine


10

UseCase in package 'Use Case Model'

Agregar sala al cine
 10
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CONNECTORS

CONNECTORS

 **Extend** «extend» Source -> Destination
 From: Agregar sala al cine
 10 : UseCase, Public
 To: Administrar salas de cine
 9 : UseCase, Public

Comprar entradas a funcion.

2

UseCase in package 'Use Case Model'

Comprar entradas a funcion.

2


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SCENARIOS


 Basic Path. Basic Path

1. Hace click en la función deseada
2. Muestra detalles de la función seleccionada (película, hora, cine, sala, precio) y un formulario para ingresar cantidad de entradas a comprar, método de pago y código de descuento.
Muestra el total a pagar.
3. Selecciona la cantidad de entradas a comprar
4. Actualiza el total a pagar para reflejar la cantidad de entradas.
5. Ingresa datos de pago.
6. Envía formulario
7. Verifica que el número de entradas sea correcto.
Exception: 7a. Falla el número de entradas a comprar
8. Verifica que los datos de pago sean correctos.
Exception: 8a. Falla la verificación de los datos de pago.
9. Realiza el cobro de las entradas.
10. Agrega entradas compradas a la base de datos.
11. Muestra mensaje indicando compra exitosa.

 Exception. Falla el número de entradas a comprar

 Exception. Falla la verificación de los datos de pago.

CONNECTORS

 **Extend** «extend» Source -> Destination
 From: Comprar entradas a funcion.
 2 : UseCase, Public
 To: Seleccionar función.
 20 : UseCase, Public

Consultar funciones de película

19


UseCase in package 'Use Case Model'


Consultar funciones de película
19

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CONNECTORS

 **Extend** «extend» Source -> Destination
From: Consultar funciones de película
19 : UseCase, Public
To: Consultar películas en cartelera
1 : UseCase, Public

 **Extend** «extend» Source -> Destination
From: Seleccionar función.
20 : UseCase, Public
To: Consultar funciones de película
19 : UseCase, Public

Consultar películas en cartelera

1


UseCase in package 'Use Case Model'

Consultar películas en cartelera
1

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CONNECTORS

 **Extend** «extend» Source -> Destination
From: Consultar funciones de película
19 : UseCase, Public
To: Consultar películas en cartelera
1 : UseCase, Public

ASSOCIATIONS

 Association (direction: Unspecified)

Source: Public (Actor) Usuario

Target: Public (UseCase) Consultar películas en
cartelera
1

Eliminar cine

8

UseCase in package 'Use Case Model'


Eliminar cine

8

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CONNECTORS

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

From: Eliminar cine

8 : UseCase, Public

To: Administrar cines

5 : UseCase, Public

Eliminar función

16

UseCase in package 'Use Case Model'

Eliminar función

16

Version 1.0 Phase 1.0 Proposed

Gamer1 created on 18/11/2020. Last modified 18/11/2020

CONNECTORS

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

From: Eliminar función

16 : UseCase, Public

To: Administrar funciones

13 : UseCase, Public

Eliminar sala de cine

12

UseCase in package 'Use Case Model'

Eliminar sala de cine


12

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CONNECTORS

CONNECTORS


 **Extend** «extend» Source -> Destination
 From: Eliminar sala de cine
 12 : UseCase, Public
 To: Administrar salas de cine
 9 : UseCase, Public

Imprimir QR**21***UseCase in package 'Use Case Model'*

Imprimir QR
 21

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CONNECTORS


 **Extend** «extend» Source -> Destination
 From: Imprimir QR
 21 : UseCase, Public
 To: Ver entradas compradas
 3 : UseCase, Public

Modificar cine**7***UseCase in package 'Use Case Model'*

Modificar cine
 7

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CONNECTORS

 **Extend** «extend» Source -> Destination
 From: Modificar cine
 7 : UseCase, Public
 To: Administrar cines
 5 : UseCase, Public

Modificar función**15***UseCase in package 'Use Case Model'*

Modificar función

15

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

From: Modificar función

15 : UseCase, Public

To: Administrar funciones

13 : UseCase, Public

Modificar sala del cine

11*UseCase in package 'Use Case Model'*

Modificar sala del cine

11

Version 1.0 Phase 1.0 Proposed

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

From: Modificar sala del cine

11 : UseCase, Public

To: Administrar salas de cine

9 : UseCase, Public

Registrar

4*UseCase in package 'Use Case Model'*

Registrar

4

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ASSOCIATIONS

Association (direction: Unspecified)

Source: Public (Actor) Usuario

Target: Public (UseCase) Registrar
4

Association (direction: Unspecified)

Source: Public (Actor) API Facebook

Target: Public (UseCase) Registrar
4

ASSOCIATIONS

Seleccionar función.

20

UseCase in package 'Use Case Model'


Seleccionar función.


20

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CONNECTORS

 **Extend** «extend» Source -> Destination
From: Seleccionar función.
20 : UseCase, Public
To: Consultar funciones de pelicula
19 : UseCase, Public

 **Extend** «extend» Source -> Destination
From: Comprar entradas a funcion.
2 : UseCase, Public
To: Seleccionar función.
20 : UseCase, Public

Use Case1

UseCase in package 'Use Case Model'

Use Case1

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Ver entradas compradas

3

UseCase in package 'Use Case Model'

Ver entradas compradas


3

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CONNECTORS

CONNECTORS

 **Extend** «extend» Source -> Destination
From: Imprimir QR
21 : UseCase, Public
To: Ver entradas compradas
3 : UseCase, Public

ASSOCIATIONS

 Association (direction: Unspecified)

Source: Public (Actor) Usuario

Target: Public (UseCase) Ver entradas compradas
3

Ver estadísticas

17

UseCase in package 'Use Case Model'

Ver estadísticas

17

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ASSOCIATIONS

 Association (direction: Unspecified)

Source: Public (Actor) Administrador

Target: Public (UseCase) Ver estadísticas
17