

## 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

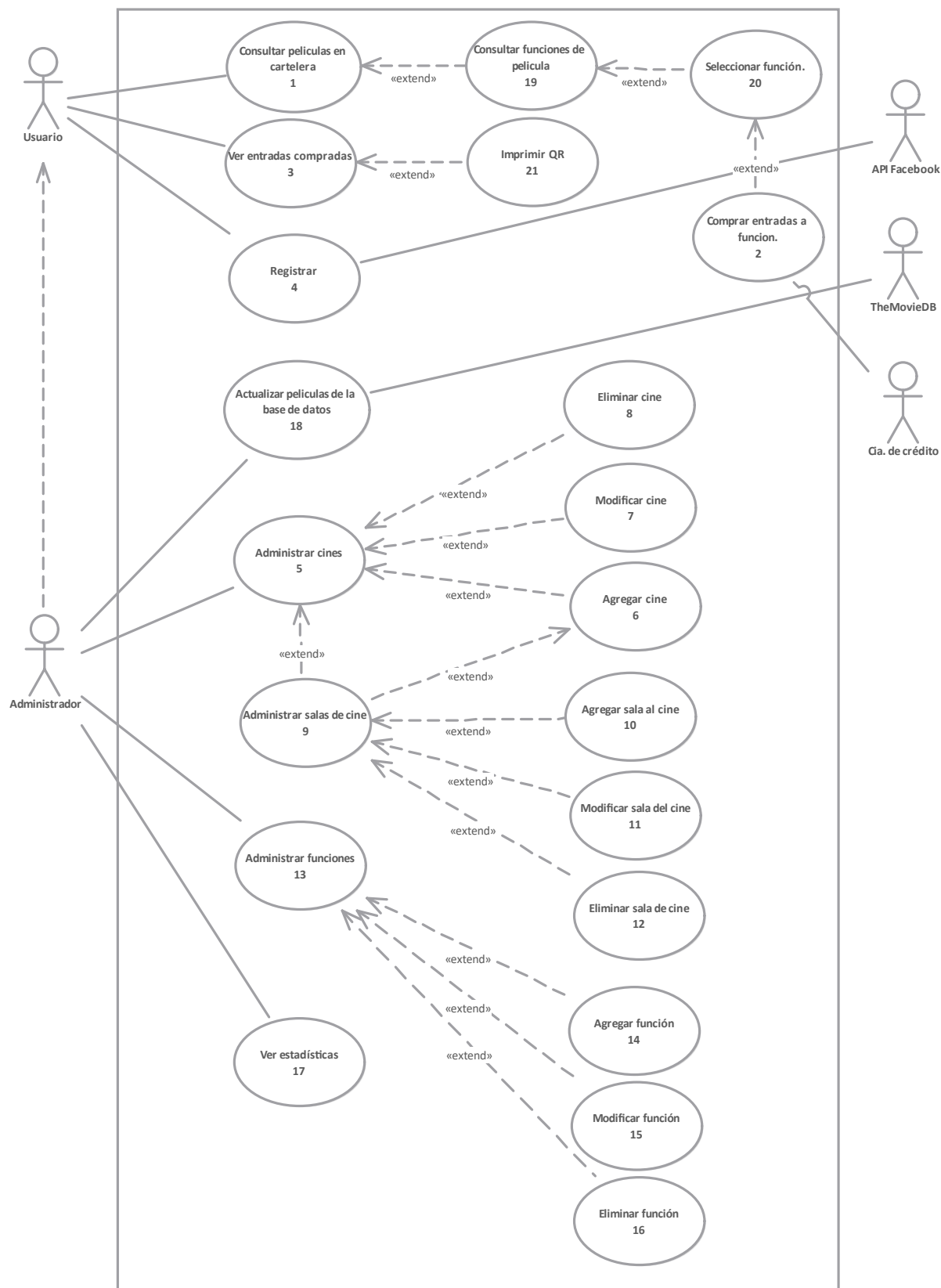


Figure 1: Use Case Model

## 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

## 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


Version 1.0 Phase 1.0 Proposed

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


### 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

## Primary Use Cases

Package in package 'Use Case Model'

Primary Use Cases  
Version 1.0 Phase 1.0 Proposed  
Gamer1 created on 18/11/2020. Last modified 18/11/2020

## Primary Use Cases diagram

Use Case diagram in package 'Primary Use Cases'

Primary Use Cases  
Version 1.0  
ileci created on 18/11/2020. Last modified 18/11/2020

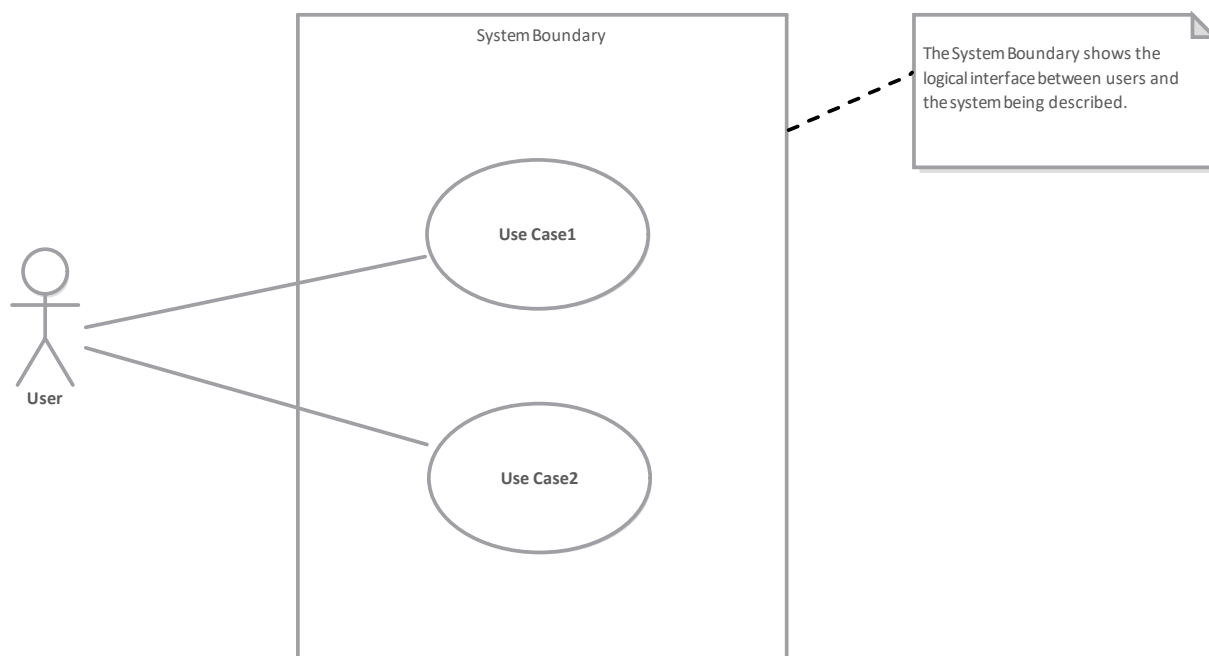


Figure 3: Primary Use Cases

## User

Actor in package 'Actors'

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


### 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  
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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  
 Version 1.0 Phase 1.0 Proposed  
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 Extends

**Use Case1**


*UseCase in package 'Primary Use Cases'*

Use Case1  
 Version 1.0 Phase 1.0 Proposed  
 Gamer1 created on 18/11/2020. Last modified 18/11/2020

**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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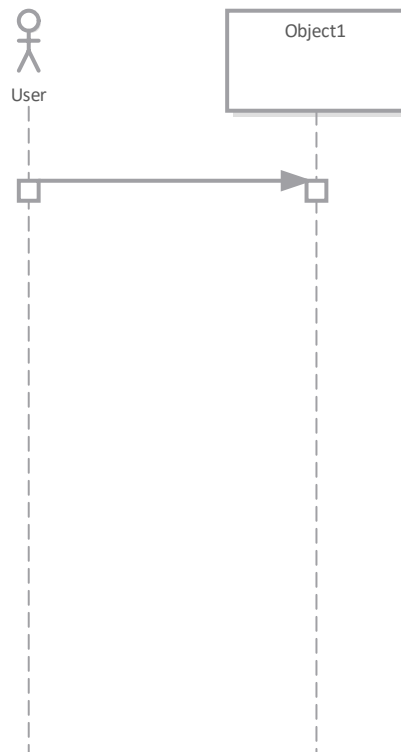


Figure 4: Use Case1

## User

*Actor in package 'Actors'*

User



Version 1.0 Phase 1.0 Proposed

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### 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

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### 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

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

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

#### CONNECTORS

 **UseCaseLink** Source -> Destination  
From: Administrador : Actor, Public  
To: Actualizar películas 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 cines  
5

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

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

## Cia. de crédito

Actor in package 'Use Case Model'

Cia. de crédito  
Version 1.0 Phase 1.0 Proposed  
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#### ASSOCIATIONS

 Association (direction: Unspecified)  
Source: Public (Actor) Cia. de crédito  
Target: Public (UseCase) Comprar entradas a  
funcion.  
2

## TheMovieDB

Actor in package 'Use Case Model'

TheMovieDB

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

### ASSOCIATIONS

 Association (direction: Unspecified)

Source: Public (UseCase) Actualizar peliculas de la base de datos  
18

Target: Public (Actor) TheMovieDB

## 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 películas de la base de datos

18

Version 1.0 Phase 1.0 Proposed

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

**CONNECTORS****UseCaseLink** Source -> Destination

From: Administrador : Actor, Public

To: Actualizar películas de la base de datos

18 : UseCase, Public

**ASSOCIATIONS**

Association (direction: Unspecified)

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

18

Target: Public (Actor) TheMovieDB

## Administrar cines

### 5

*UseCase in package 'Use Case Model'*

Administrar cines

5

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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: Eliminar cine

8 : UseCase, Public

To: Administrar cines

5 : UseCase, Public

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


From: Modificar cine

7 : UseCase, Public

To: Administrar cines

5 : UseCase, Public

**CONNECTORS**

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

 **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

**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
 <b>Extend</b> «extend» Source -> Destination From: Administrar salas de cine 9 : UseCase, Public To: Agregar cine 6 : UseCase, Public
 <b>Extend</b> «extend» Source -> Destination From: Administrar salas de cine 9 : UseCase, Public To: Administrar cines 5 : UseCase, Public
 <b>Extend</b> «extend» Source -> Destination From: Agregar sala al cine 10 : UseCase, Public To: Administrar salas de cine 9 : UseCase, Public
 <b>Extend</b> «extend» Source -> Destination From: Eliminar sala de cine 12 : UseCase, Public To: Administrar salas de cine 9 : UseCase, Public
 <b>Extend</b> «extend» Source -> Destination From: Modificar sala del cine 11 : 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


**SCENARIOS**

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**

 **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  
Version 1.0 Phase 1.0 Proposed  
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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

 **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

**ASSOCIATIONS**

 Association (direction: Unspecified)

Source: Public (Actor) Cia. de crédito

Target: Public (UseCase) Comprar entradas a  
 funcion.  
 2

## Consultar funciones de pelicula

### 19

UseCase in package 'Use Case Model'


Consultar funciones de pelicula


19

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**CONNECTORS**

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

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

## Consultar peliculas en cartelera

### 1

UseCase in package 'Use Case Model'


Consultar peliculas en cartelera

1

Version 1.0 Phase 1.0 Proposed

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**CONNECTORS**

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

**ASSOCIATIONS**

 Association (direction: Unspecified)

Source: Public (Actor) Usuario

Target: Public (UseCase) Consultar peliculas en  
 cartelera  
 1

## Eliminar cine

### 8


UseCase in package 'Use Case Model'

Eliminar cine  
 8

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 cine  
 8 : UseCase, Public  
 To: Administrar cines  
 5 : UseCase, Public

## Eliminar función

### 16

UseCase in package 'Use Case Model'


Eliminar función  
 16

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**CONNECTORS**

**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

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 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

Version 1.0 Phase 1.0 Proposed

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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

Version 1.0 Phase 1.0 Proposed

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

**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

Version 1.0 Phase 1.0 Proposed

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

**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) API Facebook	Target: Public (UseCase) Registrar 4
 Association (direction: Unspecified)	
Source: Public (Actor) Usuario	Target: Public (UseCase) Registrar 4

## Seleccionar función.

### 20

UseCase in package 'Use Case Model'

Seleccionar función.

20

Version 1.0 Phase 1.0 Proposed

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

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

### 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