

# Model

Package in package "

Model  
Version Phase 1.0 Proposed  
tomye created on 11/23/2020. Last modified 11/23/2020

## Starter Use Case Model

Package in package 'Model'

Starter Use Case Model  
Version 1.0 Phase 1.0 Proposed  
tomye created on 11/23/2020. Last modified 1/25/2018

## Starter Use Case Model diagram

Use Case diagram in package 'Starter Use Case Model'

Starter Use Case Model  
Version 1.0  
tomye created on 11/23/2020. Last modified 11/23/2020

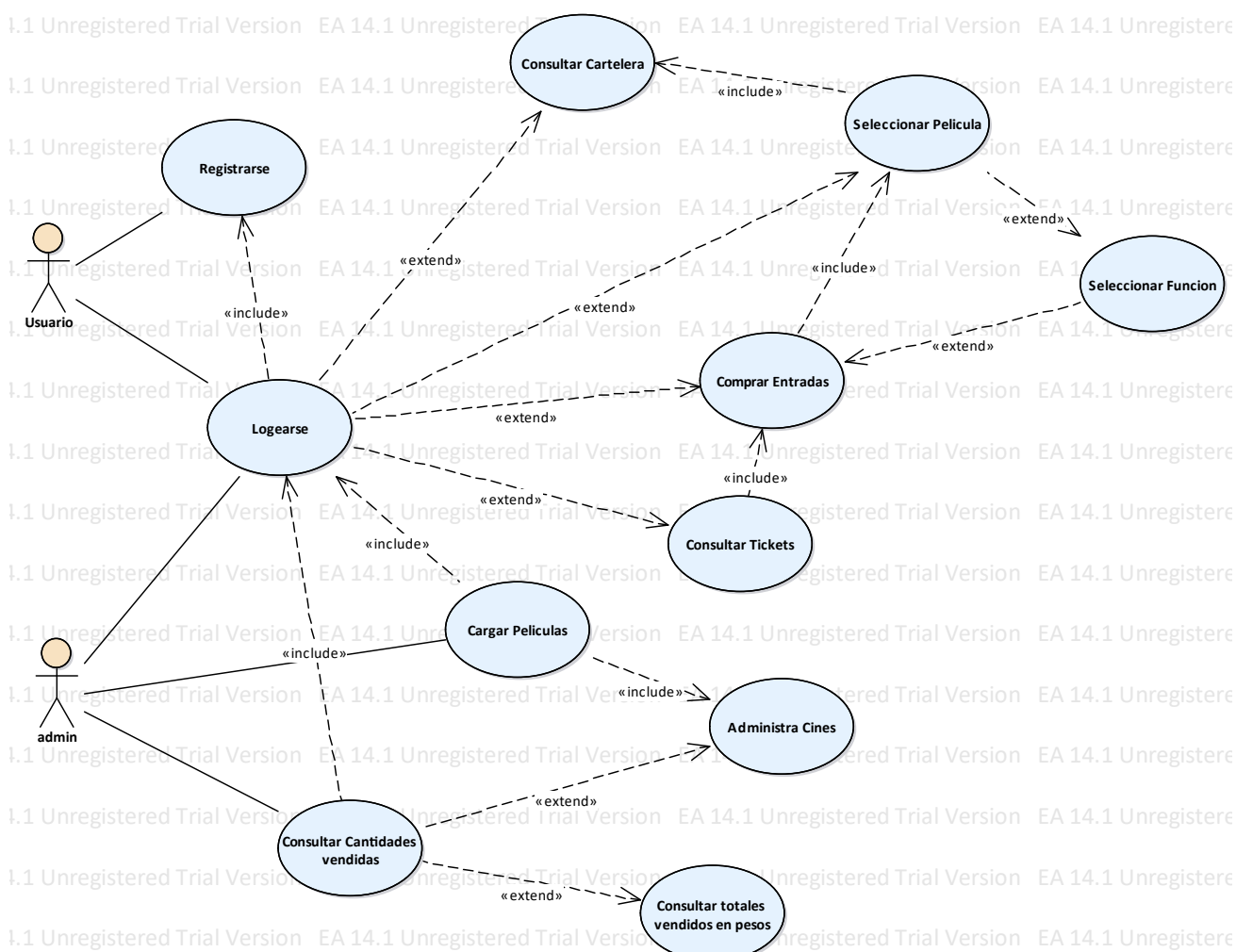


Figure 1: Starter Use Case Model

## Actors

Package in package 'Starter Use Case Model'

Contains Actors that represent the roles that users play with respect to the system.

Actors  
Version 1.0 Phase 1.0 Proposed  
tomye created on 11/23/2020. Last modified 11/23/2020

## Actor A

Actor in package 'Actors'

Actor A  
Version 1.0 Phase 1.0 Proposed  
tomye created on 11/23/2020. Last modified 11/23/2020

ASSOCIATIONS	
 Association (direction: Unspecified)	
Source: Public (Actor) Actor A	Target: Public (UseCase) Use Case A

## Actor B

Actor in package 'Actors'

Actor B  
Version 1.0 Phase 1.0 Proposed  
tomye created on 11/23/2020. Last modified 11/23/2020

ASSOCIATIONS	
 Association (direction: Unspecified)	
Source: Public (Actor) Actor B	Target: Public (UseCase) Use Case B

## Use Cases

Package in package 'Starter Use Case Model'






Contains Use Case that represent the value or goal that the Actors wish to achieve.

Use Cases  
Version 1.0 Phase 1.0 Proposed  
tomye created on 11/23/2020. Last modified 11/23/2020

## Use Case A

UseCase in package 'Use Cases'

Use Case A  
Version 1.0 Phase 1.0 Proposed  
tomye created on 11/23/2020. Last modified 11/23/2020

SCENARIOS	
 Basic Path. Basic Path <ol style="list-style-type: none"> <li>1. User Step One</li> <li>2. System Step One</li> <li>3. User Step Two</li> <li>4. System Step Two</li> </ol>	
CONSTRAINTS	
 Invariant. Invariant A	[ Approved, Weight is 0. ]
 Pre-condition. Pre-condition A	[ Approved, Weight is 1. ]
 Post-condition. Post-condition A	[ Approved, Weight is 2. ]
ASSOCIATIONS	
 Association (direction: Unspecified)	
Source: Public (Actor) Actor A	Target: Public (UseCase) Use Case A

## Use Case B

UseCase in package 'Use Cases'

Use Case B  
Version 1.0 Phase 1.0 Proposed  
tomye created on 11/23/2020. Last modified 11/23/2020

## ASSOCIATIONS



Association (direction: Unspecified)

Source: Public (Actor) Actor B

Target: Public (UseCase) Use Case B

## admin

*Actor in package 'Starter Use Case Model'*

admin

Version 1.0 Phase 1.0 Proposed

tomye created on 11/23/2020. Last modified 11/23/2020

## ASSOCIATIONS



Association (direction: Unspecified)

Source: Public (Actor) admin

Target: Public (UseCase) Logearse



Association (direction: Unspecified)

Source: Public (Actor) admin

Target: Public (UseCase) Logearse



Association (direction: Unspecified)

Source: Public (Actor) admin

Target: Public (UseCase) Cargar Peliculas



Association (direction: Unspecified)

Source: Public (Actor) admin

Target: Public (UseCase) Logearse como admin



Association (direction: Unspecified)

Source: Public (Actor) admin

Target: Public (UseCase) Consultar Cantidades  
vendidas

## Usuario

*Actor in package 'Starter Use Case Model'*

Usuario

Version 1.0 Phase 1.0 Proposed

tomye created on 11/23/2020. Last modified 11/23/2020

## ASSOCIATIONS



Association (direction: Unspecified)

Source: Public (Actor) Usuario

Target: Public (UseCase) Logearse

## ASSOCIATIONS

 Association (direction: Unspecified)

Source: Public (Actor) Usuario

Target: Public (UseCase) Use Case1

 Association (direction: Unspecified)

Source: Public (Actor) Usuario


Target: Public (UseCase) Registrarse


## Administra Cines

UseCase in package 'Starter Use Case Model'

Administra Cines  
Version 1.0 Phase 1.0 Proposed  
tomye created on 11/23/2020. Last modified 11/23/2020

## CONNECTORS

 **Extend** «extend» Source -> Destination  
From: Consultar Cantidades vendidas : UseCase, Public  
To: Administra Cines : UseCase, Public


 **Include** «include» Source -> Destination  
From: Cargar Peliculas : UseCase, Public  
To: Administra Cines : UseCase, Public


## Cargar Peliculas

UseCase in package 'Starter Use Case Model'


Cargar Peliculas  
Version 1.0 Phase 1.0 Proposed  
tomye created on 11/23/2020. Last modified 11/23/2020

## CONNECTORS

 **Include** «include» Source -> Destination  
From: Cargar Peliculas : UseCase, Public  
To: Administra Cines : UseCase, Public

 **Include** «include» Source -> Destination  
From: Cargar Peliculas : UseCase, Public  
To: Logearse : UseCase, Public

**CONNECTORS**

 **Extend** «extend» Source -> Destination  
 From: Logearse como admin : UseCase, Public  
 To: Cargar Peliculas : UseCase, Public

**ASSOCIATIONS**

 Association (direction: Unspecified)

Source: Public (Actor) admin


Target: Public (UseCase) Cargar Peliculas


**Comprar Entradas**


*UseCase in package 'Starter Use Case Model'*


Comprar Entradas  
 Version 1.0 Phase 1.0 Proposed  
 tomye created on 11/23/2020. Last modified 11/23/2020

**CONNECTORS**

 **Include** «include» Source -> Destination  
 From: Comprar Entradas : UseCase, Public  
 To: Seleccionar Pelicula : UseCase, Public

 **Include** «include» Source -> Destination  
 From: Consultar Tickets : UseCase, Public  
 To: Comprar Entradas : UseCase, Public

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

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

**Consultar Cantidades vendidas**

*UseCase in package 'Starter Use Case Model'*

Consultar Cantidades vendidas  
 Version 1.0 Phase 1.0 Proposed  
 tomye created on 11/23/2020. Last modified 11/23/2020

**CONNECTORS**

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

From: Consultar Cantidades vendidas : UseCase, Public

To: Administra Cines : UseCase, Public

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

From: Consultar Cantidades vendidas : UseCase, Public

To: Logearse : UseCase, Public

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

From: Consultar Cantidades vendidas : UseCase, Public

To: Consultar totales vendidos en pesos : UseCase, Public

**ASSOCIATIONS**

Association (direction: Unspecified)

Source: Public (Actor) admin

Target: Public (UseCase) Consultar Cantidades vendidas

## Consultar Cartelera

*UseCase in package 'Starter Use Case Model'*

Consultar Cartelera  
 Version 1.0 Phase 1.0 Proposed  
 tomye created on 11/23/2020. Last modified 11/23/2020

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

From: Logearse : UseCase, Public

To: Consultar Cartelera : UseCase, Public

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

From: Seleccionar Pelicula : UseCase, Public

To: Consultar Cartelera : UseCase, Public


## Consultar Tickets


*UseCase in package 'Starter Use Case Model'*


Consultar Tickets  
 Version 1.0 Phase 1.0 Proposed  
 tomye created on 11/23/2020. Last modified 11/23/2020

**CONNECTORS**

## CONNECTORS

 **Include** «include» Source -> Destination  
 From: Consultar Tickets : UseCase, Public  
 To: Use Case2 : UseCase, Public

 **Include** «include» Source -> Destination  
 From: Consultar Tickets : UseCase, Public  
 To: Comprar Entradas : UseCase, Public


 **Extend** «extend» Source -> Destination  
 From: Logearse : UseCase, Public  
 To: Consultar Tickets : UseCase, Public

## Consultar totales vendidos en pesos

*UseCase in package 'Starter Use Case Model'*

Consultar totales vendidos en pesos  
 Version 1.0 Phase 1.0 Proposed  
 tomye created on 11/23/2020. Last modified 11/23/2020

## CONNECTORS


 **Extend** «extend» Source -> Destination  
 From: Consultar Cantidades vendidas : UseCase, Public  
 To: Consultar totales vendidos en pesos : UseCase, Public


## Logearse


*UseCase in package 'Starter Use Case Model'*

Logearse  
 Version 1.0 Phase 1.0 Proposed  
 tomye created on 11/23/2020. Last modified 11/23/2020

## CONNECTORS


 **Extend** «extend» Source -> Destination  
 From: Logearse : UseCase, Public  
 To: Seleccionar Pelicula : UseCase, Public


 **Extend** «extend» Source -> Destination  
 From: Logearse : UseCase, Public  
 To: Consultar Cartelera : UseCase, Public


 **Extend** «extend» Source -> Destination  
 From: Logearse : UseCase, Public  
 To: Consultar Tickets : UseCase, Public




**CONNECTORS**

 **Include** «include» Source -> Destination  
 From: Logearse : UseCase, Public  
 To: Registrarse : UseCase, Public

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

 **Include** «include» Source -> Destination  
 From: Consultar Cantidades vendidas : UseCase, Public  
 To: Logearse : UseCase, Public

 **Include** «include» Source -> Destination  
 From: Cargar Peliculas : UseCase, Public  
 To: Logearse : UseCase, Public

**ASSOCIATIONS**

 Association (direction: Unspecified)

Source: Public (Actor) Usuario

Target: Public (UseCase) Logearse

 Association (direction: Unspecified)

Source: Public (Actor) admin

Target: Public (UseCase) Logearse

**Logearse**

*UseCase in package 'Starter Use Case Model'*

Logearse  
 Version 1.0 Phase 1.0 Proposed  
 tomye created on 11/23/2020. Last modified 11/23/2020

**ASSOCIATIONS**

 Association (direction: Unspecified)

Source: Public (Actor) admin


Target: Public (UseCase) Logearse

**Logearse como admin**

*UseCase in package 'Starter Use Case Model'*

Logearse como admin  
 Version 1.0 Phase 1.0 Proposed  
 tomye created on 11/23/2020. Last modified 11/23/2020

**CONNECTORS**

 **Extend** «extend» Source -> Destination  
 From: Logearse como admin : UseCase, Public  
 To: Cargar Peliculas : UseCase, Public

**ASSOCIATIONS**

 Association (direction: Unspecified)

Source: Public (Actor) admin


Target: Public (UseCase) Logearse como admin

**Registrarse**

UseCase in package 'Starter Use Case Model'

Registrarse  
 Version 1.0 Phase 1.0 Proposed  
 tomye created on 11/23/2020. Last modified 11/23/2020

**CONNECTORS**

 **Include** «include» Source -> Destination  
 From: Logearse : UseCase, Public  
 To: Registrarse : UseCase, Public

**ASSOCIATIONS**

 Association (direction: Unspecified)

Source: Public (Actor) Usuario


Target: Public (UseCase) Registrarse


**Seleccionar Funcion**

UseCase in package 'Starter Use Case Model'

Seleccionar Funcion  
 Version 1.0 Phase 1.0 Proposed  
 tomye created on 11/23/2020. Last modified 11/23/2020

**CONNECTORS**

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


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


## Seleccionar Pelicula


UseCase in package 'Starter Use Case Model'


Seleccionar Pelicula  
Version 1.0 Phase 1.0 Proposed  
tomye created on 11/23/2020. Last modified 11/23/2020

### CONNECTORS

 **Include** «include» Source -> Destination  
From: Seleccionar Pelicula : UseCase, Public  
To: Consultar Cartelera : UseCase, Public

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

 **Extend** «extend» Source -> Destination  
From: Logearse : UseCase, Public  
To: Seleccionar Pelicula : UseCase, Public

 **Include** «include» Source -> Destination  
From: Comprar Entradas : UseCase, Public  
To: Seleccionar Pelicula : UseCase, Public

## Use Case1

UseCase in package 'Starter Use Case Model'

Use Case1  
Version 1.0 Phase 1.0 Proposed  
tomye created on 11/23/2020. Last modified 11/23/2020

### ASSOCIATIONS

 Association (direction: Unspecified)

Source: Public (Actor) Usuario

Target: Public (UseCase) Use Case1


## Use Case2

UseCase in package 'Starter Use Case Model'

Use Case2  
Version 1.0 Phase 1.0 Proposed  
tomye created on 11/23/2020. Last modified 11/23/2020

### CONNECTORS

**CONNECTORS**

 **Include** «include» Source -> Destination  
From: Consultar Tickets : UseCase, Public  
To: Use Case2 : UseCase, Public

## Basic Class Diagram with Attributes

Package in package 'Model'

Basic Class Diagram with Attributes

Version 1.0 Phase 1.0 Proposed

tomye created on 11/23/2020. Last modified 1/29/2018

## Basic Class Diagram with Attributes diagram

Class diagram in package 'Basic Class Diagram with Attributes'

Basic Class Diagram with Attributes

Version 1.0

tomye created on 11/23/2020. Last modified 11/23/2020

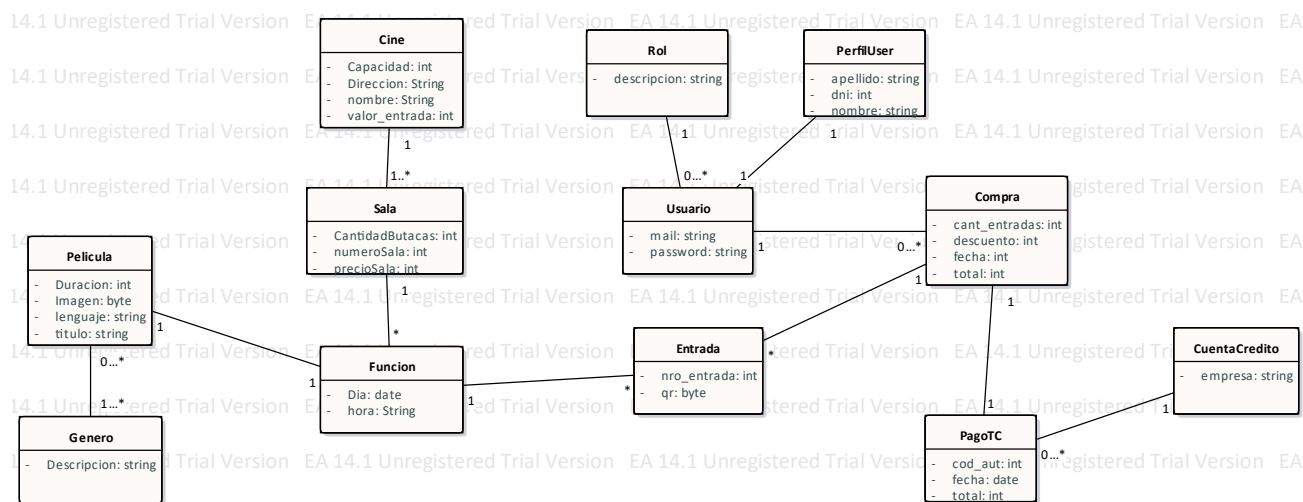


Figure 2: Basic Class Diagram with Attributes

## Cine

Class in package 'Basic Class Diagram with Attributes'

Cine

Version 1.0 Phase 1.0 Proposed

tomye created on 11/23/2020. Last modified 11/23/2020

ATTRIBUTES	
<div> </div> Capacidad : int Private	[ Is static True. Containment is Not Specified. ]
<div> </div> Direccion : String Private	[ Is static True. Containment is Not Specified. ]
<div> </div> nombre : String Private	[ Is static True. Containment is Not Specified. ]

**ATTRIBUTES**

valor\_entrada : int Private

[ Is static True. Containment is Not Specified. ]

**ASSOCIATIONS**

Association (direction: Unspecified)

Source: Public (Class) Sala

Cardinality: [1..\*]

Target: Public (Class) Cine

Cardinality: [1]

**Class1***Class in package 'Basic Class Diagram with Attributes'*

Class1

Version 1.0 Phase 1.0 Proposed

tomye created on 11/23/2020. Last modified 11/23/2020

**Class2***Class in package 'Basic Class Diagram with Attributes'*

Class2

Version 1.0 Phase 1.0 Proposed

tomye created on 11/23/2020. Last modified 11/23/2020

**ASSOCIATIONS**

Association (direction: Unspecified)

Source: Public (Class) Usuario

Target: Public (Class) Class2

**Class3***Class in package 'Basic Class Diagram with Attributes'*

Class3

Version 1.0 Phase 1.0 Proposed

tomye created on 11/23/2020. Last modified 11/23/2020

**Compra***Class in package 'Basic Class Diagram with Attributes'*



Compra

Version 1.0 Phase 1.0 Proposed

tomye created on 11/23/2020. Last modified 11/23/2020

**ATTRIBUTES**

ATTRIBUTES	
 cant_entradas : int Private	[ Is static True. Containment is Not Specified. ]
 descuento : int Private	[ Is static True. Containment is Not Specified. ]
 fecha : int Private	[ Is static True. Containment is Not Specified. ]
 total : int Private	[ Is static True. Containment is Not Specified. ]

ASSOCIATIONS	
 Association (direction: Unspecified)	
Source: Public (Class) Compra Cardinality: [0...*]	Target: Public (Class) Usuario Cardinality: [1]
 Association (direction: Unspecified)	
Source: Public (Class) PagoTC Cardinality: [1]	Target: Public (Class) Compra Cardinality: [1]
 Association (direction: Unspecified)	
Source: Public (Class) Entrada Cardinality: [*]	Target: Public (Class) Compra Cardinality: [1]

## CuentaCredito

*Class in package 'Basic Class Diagram with Attributes'*

CuentaCredito  
Version 1.0 Phase 1.0 Proposed  
tomye created on 11/23/2020. Last modified 11/23/2020

ATTRIBUTES	
 empresa : string Private	[ Is static True. Containment is Not Specified. ]
ASSOCIATIONS	
 Association (direction: Unspecified)	
Source: Public (Class) PagoTC	Target: Public (Class) CuentaCredito

**ASSOCIATIONS**

Cardinality: [0...\*]

Cardinality: [1]

**Entrada***Class in package 'Basic Class Diagram with Attributes'*


Entrada

Version 1.0 Phase 1.0 Proposed

tomye created on 11/23/2020. Last modified 11/23/2020

**ATTRIBUTES** nro\_entrada : int Private

[ Is static True. Containment is Not Specified. ]

 qr : byte Private


[ Is static True. Containment is Not Specified. ]

**ASSOCIATIONS** Association (direction: Unspecified)Source: Public (Class) Entrada  
Cardinality: [\*]Target: Public (Class) Funcion  
Cardinality: [1] Association (direction: Unspecified)Source: Public (Class) Entrada  
Cardinality: [\*]Target: Public (Class) Compra  
Cardinality: [1]**Funcion***Class in package 'Basic Class Diagram with Attributes'*


Funcion

Version 1.0 Phase 1.0 Proposed

tomye created on 11/23/2020. Last modified 11/23/2020

**ATTRIBUTES** Dia : date Private

[ Is static True. Containment is Not Specified. ]

 hora : String Private

[ Is static True. Containment is Not Specified. ]

**ASSOCIATIONS**





ASSOCIATIONS	
 Association (direction: Unspecified)	
Source: Public (Class) Funcion Cardinality: [*]	Target: Public (Class) Sala Cardinality: [1]
 Association (direction: Unspecified)	
Source: Public (Class) Funcion Cardinality: [1]	Target: Public (Class) Pelicula Cardinality: [1]
 Association (direction: Unspecified)	
Source: Public (Class) Entrada Cardinality: [*]	Target: Public (Class) Funcion Cardinality: [1]

## Genero

*Class in package 'Basic Class Diagram with Attributes'*


Genero  
Version 1.0 Phase 1.0 Proposed  
tomye created on 11/23/2020. Last modified 11/23/2020


ATTRIBUTES	
 Descripcion : string Private	
[ Is static True. Containment is Not Specified. ]	
ASSOCIATIONS	
 Association (direction: Unspecified)	
Source: Public (Class) Pelicula Cardinality: [0...*]	Target: Public (Class) Genero Cardinality: [1...*]



## PagoTC

*Class in package 'Basic Class Diagram with Attributes'*

PagoTC  
Version 1.0 Phase 1.0 Proposed  
tomye created on 11/23/2020. Last modified 11/23/2020

ATTRIBUTES	
 cod_aut : int Private	
[ Is static True. Containment is Not Specified. ]	
 fecha : date Private	

ATTRIBUTES	
	[ Is static True. Containment is Not Specified. ]
 total : int Private	[ Is static True. Containment is Not Specified. ]



ASSOCIATIONS	
 Association (direction: Unspecified)	
Source: Public (Class) PagoTC Cardinality: [1]	Target: Public (Class) Compra Cardinality: [1]
 Association (direction: Unspecified)	
Source: Public (Class) PagoTC Cardinality: [0...*]	Target: Public (Class) CuentaCredito Cardinality: [1]

## Pelicula

Class in package 'Basic Class Diagram with Attributes'

Pelicula  
Version 1.0 Phase 1.0 Proposed  
tomye created on 11/23/2020. Last modified 11/23/2020

ATTRIBUTES	
 Duracion : int Private	[ Is static True. Containment is Not Specified. ]
 Imagen : byte Private	[ Is static True. Containment is Not Specified. ]
 lenguaje : string Private	[ Is static True. Containment is Not Specified. ]
 titulo : string Private	[ Is static True. Containment is Not Specified. ]

ASSOCIATIONS	
 Association (direction: Unspecified)	
Source: Public (Class) Pelicula Cardinality: [0...*]	Target: Public (Class) Genero Cardinality: [1...*]
 Association (direction: Unspecified)	

**ASSOCIATIONS**

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


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

**PerfilUser**


*Class in package 'Basic Class Diagram with Attributes'*

PerfilUser  
Version 1.0 Phase 1.0 Proposed  
tomye created on 11/23/2020. Last modified 11/23/2020


**ATTRIBUTES**

 apellido : string Private

[ Is static True. Containment is Not Specified. ]

 dni : int Private

[ Is static True. Containment is Not Specified. ]

 nombre : string Private

[ Is static True. Containment is Not Specified. ]

**ASSOCIATIONS**

 Association (direction: Unspecified)

Source: Public (Class) Usuario  
Cardinality: [1]


Target: Public (Class) PerfilUser  
Cardinality: [1]

**Rol**

*Class in package 'Basic Class Diagram with Attributes'*

Rol  
Version 1.0 Phase 1.0 Proposed  
tomye created on 11/23/2020. Last modified 11/23/2020

**ATTRIBUTES**

 descripcion : string Private

[ Is static True. Containment is Not Specified. ]

**ASSOCIATIONS**

 Association (direction: Unspecified)

Source: Public (Class) Usuario  
Cardinality: [0...\*]

Target: Public (Class) Rol  
Cardinality: [1]

## ASSOCIATIONS

## Sala


*Class in package 'Basic Class Diagram with Attributes'*

Sala

Version 1.0 Phase 1.0 Proposed

tomye created on 11/23/2020. Last modified 11/23/2020


## ATTRIBUTES

 CantidadButacas : int Private

[ Is static True. Containment is Not Specified. ]

 numeroSala : int Private

[ Is static True. Containment is Not Specified. ]

 precioSala : int Private

[ Is static True. Containment is Not Specified. ]

## ASSOCIATIONS

 Association (direction: Unspecified)

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

 Target: Public (Class) Cine  
 Cardinality: [1]

 Association (direction: Unspecified)

 Source: Public (Class) Funcion  
 Cardinality: [\*]

 Target: Public (Class) Sala  
 Cardinality: [1]

## Usuario


*Class in package 'Basic Class Diagram with Attributes'*

Usuario


Version 1.0 Phase 1.0 Proposed

tomye created on 11/23/2020. Last modified 11/23/2020

## ATTRIBUTES

 mail : string Private

[ Is static True. Containment is Not Specified. ]

 password : string Private

[ Is static True. Containment is Not Specified. ]

**ASSOCIATIONS** Association (direction: Unspecified)Source: Public (Class) Usuario  
Cardinality: [1]Target: Public (Class) PerfilUser  
Cardinality: [1] Association (direction: Unspecified)Source: Public (Class) Usuario  
Cardinality: [0...\*]Target: Public (Class) Rol  
Cardinality: [1] Association (direction: Unspecified)

Source: Public (Class) Usuario

Target: Public (Class) Class2

 Association (direction: Unspecified)Source: Public (Class) Compra  
Cardinality: [0...\*]Target: Public (Class) Usuario  
Cardinality: [1]

## Interface1

*Interface in package 'Basic Class Diagram with Attributes'*

Interface1

Version 1.0 Phase 1.0 Proposed

tomye created on 11/23/2020. Last modified 11/23/2020