Model Report

Version •

Date/Time Generated: 05/07/2018 3:53:51 p. m.

Author: Nancy

EA Repository : C:\Users\Nancy\Documents\System Recomender\system_recomender.eap

Table of Contents

1 Model

Package in package ''

Model
Version Phase 1.0 Proposed
Nancy created on 05/07/2018. Last modified 05/07/2018

1.1 Comportamiento

Package in package 'Model'

Comportamiento
Version 1.0 Phase 1.0 Proposed
Nancy created on 29/06/2018. Last modified 29/06/2018

1.1.1 Caso de Uso

Package in package 'Comportamiento'

Caso de Uso
Version 1.0 Phase 1.0 Proposed
Nancy created on 29/06/2018. Last modified 29/06/2018

1.1.1.1 Use Case Model diagram

Use Case diagram in package 'Caso de Uso'

Use Case Model
Version 1.0
Nancy created on 26/06/2018. Last modified 26/06/2018

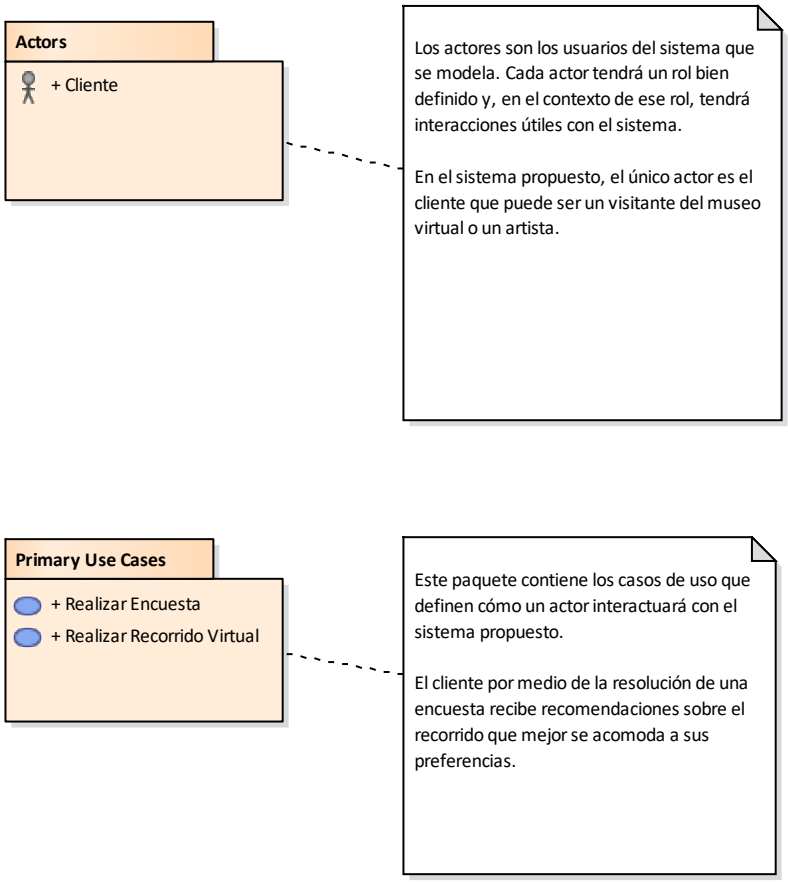

Figure 1: Use Case Model

1.1.1.2 Note

Note in package 'Caso de Uso'

Los actores son los usuarios del sistema que se modela. Cada actor tendrá un rol bien definido y, en el contexto de ese rol, tendrá interacciones útiles con el sistema.

En el sistema propuesto, el único actor es el cliente que puede ser un visitante del museo virtual o un artista.

Note
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 26/06/2018
Extends

1.1.1.3 Note

Note in package 'Caso de Uso'

Este paquete contiene los casos de uso que definen cómo un actor interactuará con el sistema propuesto.

El cliente por medio de la resolución de una encuesta recibe recomendaciones sobre el recorrido que mejor se acomoda a sus preferencias.

Note
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 26/06/2018
Extends

1.1.1.4 Actors

Package in package 'Caso de Uso'

Actors
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 29/06/2018

1.1.1.5 Primary Use Cases

Package in package 'Caso de Uso'

Primary Use Cases
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 29/06/2018

1.1.1.6 Actors

Package in package 'Caso de Uso'

Actors
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 29/06/2018

1.1.1.6.1 Actors diagram

Use Case diagram in package 'Actors'

Actors
Version 1.0
Nancy created on 26/06/2018. Last modified 26/06/2018

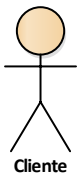

Figure 2: Actors

1.1.1.6.2 Cliente

Actor in package 'Actors'

Cliente
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 26/06/2018

OUTGOING BEHAVIORAL RELATIONSHIPS

Sequence from Cliente to Object1

CONNECTORS

UseCaseLink Source -> Destination
From: Cliente : Actor, Public
To: Realizar Recorrido Virtual : UseCase, Public

UseCaseLink Source -> Destination
From: Cliente : Actor, Public
To: Realizar Encuesta : UseCase, Public

1.1.1.7 Primary Use Cases

Package in package 'Caso de Uso'

Primary Use Cases
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 29/06/2018

1.1.1.7.1 Primary Use Cases diagram

Use Case diagram in package 'Primary Use Cases'

Primary Use Cases
Version 1.0
Nancy created on 26/06/2018. Last modified 26/06/2018

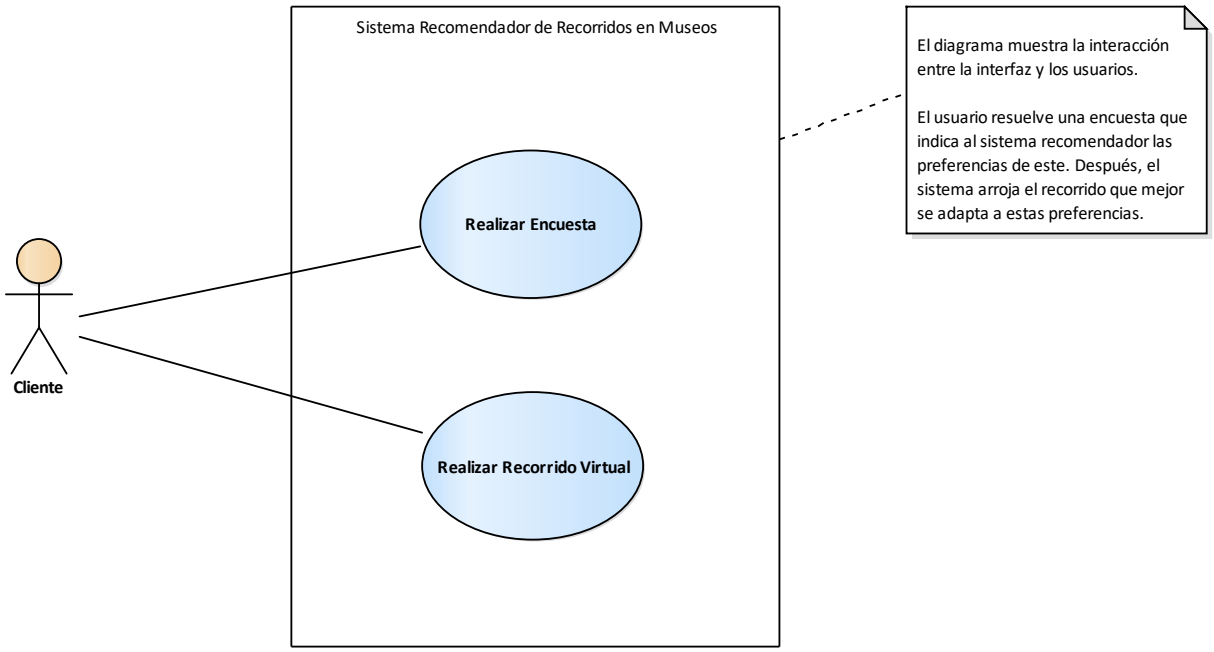

Figure 3: Primary Use Cases

1.1.1.7.2 Cliente

Actor in package 'Actors'

Cliente
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 26/06/2018

OUTGOING BEHAVIORAL RELATIONSHIPS

Sequence from Cliente to Object1

CONNECTORS

UseCaseLink Source -> Destination
From: Cliente : Actor, Public
To: Realizar Recorrido Virtual : UseCase, Public

CONNECTORS

UseCaseLink Source -> Destination
From: Cliente : Actor, Public
To: Realizar Encuesta : UseCase, Public

1.1.1.7.3 Sistema Recomendador de Recorridos en Museos

Boundary in package 'Primary Use Cases'

Sistema Recomendador de Recorridos en Museos
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 26/06/2018
Extends

1.1.1.7.4 Note

Note in package 'Primary Use Cases'

El diagrama muestra la interacción entre la interfaz y los usuarios.

El usuario resuelve una encuesta que indica al sistema recomendador las preferencias de este. Después, el sistema arroja el recorrido que mejor se adapta a estas preferencias.

Note
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 26/06/2018
Extends

1.1.1.7.5 Realizar Encuesta

UseCase in package 'Primary Use Cases'

Realizar Encuesta
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 26/06/2018

ELEMENTS OWNED BY Realizar Encuesta

Object1 : Sequence

CONNECTORS

UseCaseLink Source -> Destination
From: Cliente : Actor, Public
To: Realizar Encuesta : UseCase, Public

1.1.1.7.5.1 Use Case1 diagram

Interaction diagram in package 'Primary Use Cases'

Use Case1
Version 1.0
Nancy created on 26/06/2018. Last modified 26/06/2018

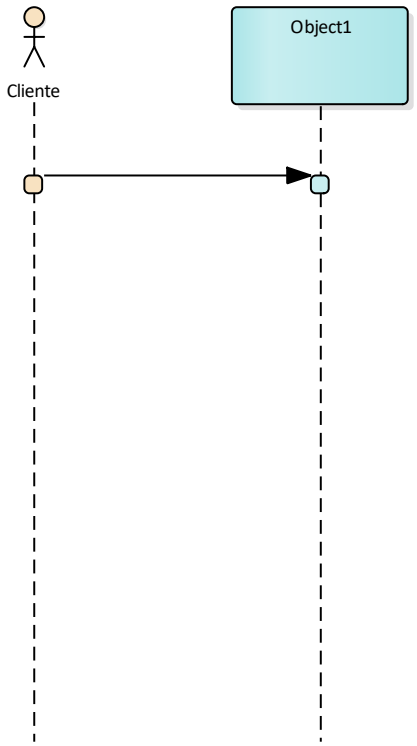

Figure 4: Use Case1

1.1.1.7.5.2 Cliente

Actor in package 'Actors'

Cliente
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 26/06/2018

OUTGOING BEHAVIORAL RELATIONSHIPS

Sequence from Cliente to Object1

CONNECTORS

UseCaseLink Source -> Destination
From: Cliente : Actor, Public
To: Realizar Recorrido Virtual : UseCase, Public

UseCaseLink Source -> Destination
From: Cliente : Actor, Public
To: Realizar Encuesta : UseCase, Public

INTERACTION MESSAGES

1.0 '' from 'Cliente' sent to 'Object1'.

Synchronous Call.

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

1.1.1.7.5.3 Object1

Sequence owned by 'Realizar Encuesta', in package 'Primary Use Cases'

Object1
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 26/06/2018

INCOMING BEHAVIORAL RELATIONSHIPS

Sequence from Cliente to Object1

1.1.1.7.6 Realizar Recorrido Virtual

UseCase in package 'Primary Use Cases'

Realizar Recorrido Virtual
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 26/06/2018

CONNECTORS

UseCaseLink Source -> Destination
From: Cliente : Actor, Public
To: Realizar Recorrido Virtual : UseCase, Public

1.2 Estructurales

Package in package 'Model'

Estructurales
Version 1.0 Phase 1.0 Proposed
Nancy created on 29/06/2018. Last modified 29/06/2018

1.2.1 Clases

Package in package 'Estructurales'

Clases
Version 1.0 Phase 1.0 Proposed
Nancy created on 29/06/2018. Last modified 29/06/2018

1.2.1.1 Class Model diagram

Class diagram in package 'Clases'

Class Model
Version 1.0
Nancy created on 26/06/2018. Last modified 04/07/2018

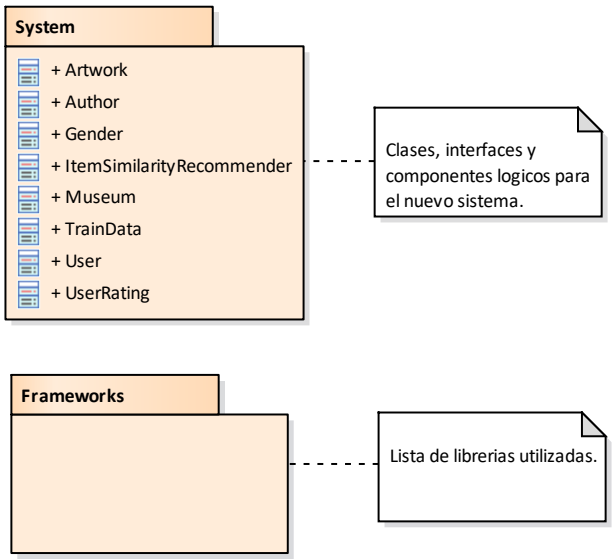

Figure 5: Class Model

1.2.1.2 Note

Note in package 'Clases'

Clases, interfaces y componentes logicos para el nuevo sistema.

Note
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 26/06/2018
Extends

1.2.1.3 Note

Note in package 'Clases'

Lista de librerias utilizadas.

Note
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 26/06/2018
Extends

1.2.1.4 System

Package in package 'Clases'

System
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 29/06/2018

1.2.1.5 Frameworks

Package in package 'Clases'

Frameworks
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 29/06/2018

1.2.1.6 System

Package in package 'Clases'

System
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 29/06/2018

1.2.1.6.1 System diagram

Class diagram in package 'System'

System
Version 1.0
Nancy created on 26/06/2018. Last modified 04/07/2018

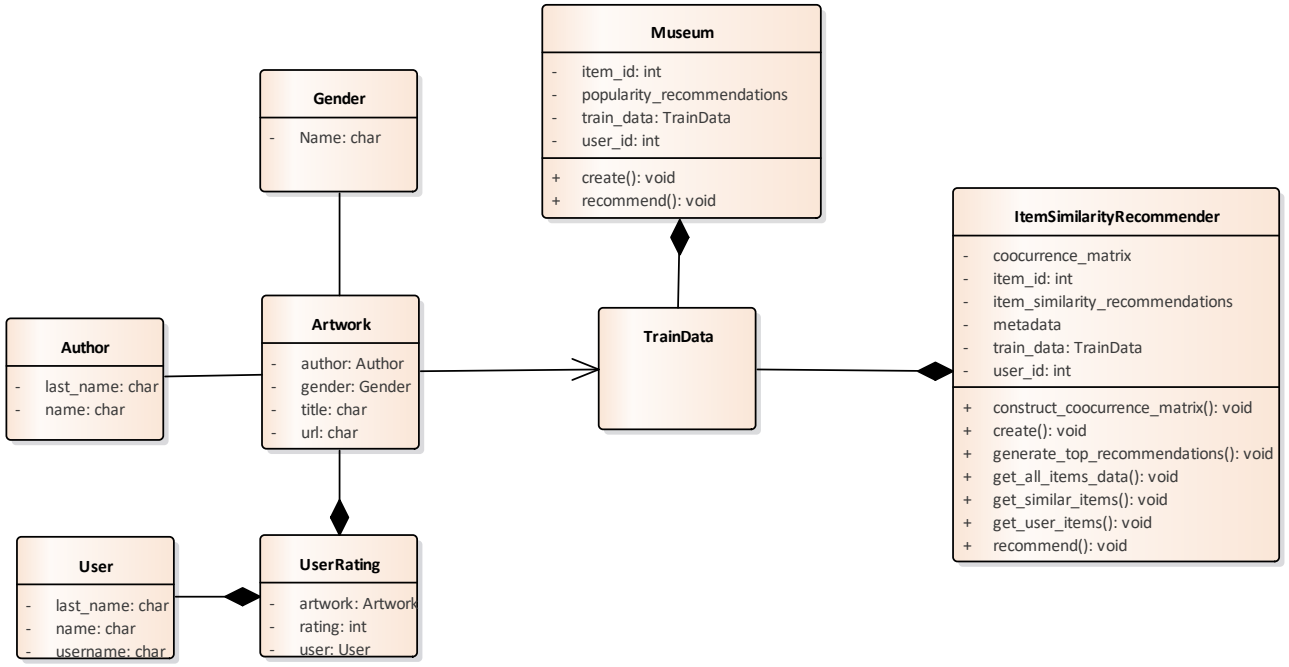

Figure 6: System

1.2.1.6.2 Artwork

Class in package 'System'

Artwork
Version 1.0 Phase 1.0 Proposed
Nancy created on 04/07/2018. Last modified 04/07/2018

OUTGOING STRUCTURAL RELATIONSHIPS

Aggregation from Artwork to UserRating
[Direction is 'Source -> Destination'.]

ATTRIBUTES

author : Author Private
[Is static False. Containment is Not Specified.]

gender : Gender Private
[Is static False. Containment is Not Specified.]

title : char Private
[Is static False. Containment is Not Specified.]

url : char Private
[Is static False. Containment is Not Specified.]

ASSOCIATIONS

Association (direction: Unspecified)

ASSOCIATIONS	
Source: Public (Class) Artwork	Target: Public (Class) Author
Association (direction: Unspecified) Source: Public (Class) Artwork	Target: Public (Class) Gender
Association (direction: Source -> Destination) Source: Public (Class) Artwork	Target: Public (Class) TrainData

1.2.1.6.3 Author

Class in package 'System'

Author
Version 1.0 Phase 1.0 Proposed
Nancy created on 04/07/2018. Last modified 04/07/2018

ATTRIBUTES	
last_name : char Private	[Is static False. Containment is Not Specified.]
name : char Private	[Is static False. Containment is Not Specified.]

ASSOCIATIONS	
Association (direction: Unspecified) Source: Public (Class) Artwork	Target: Public (Class) Author

1.2.1.6.4 Gender

Class in package 'System'

Gender
Version 1.0 Phase 1.0 Proposed
Nancy created on 04/07/2018. Last modified 04/07/2018

ATTRIBUTES	
Name : char Private	[Is static False. Containment is Not Specified.]

ASSOCIATIONS	
Association (direction: Unspecified) Source: Public (Class) Artwork	Target: Public (Class) Gender

1.2.1.6.5 ItemSimilarityRecommender

Class in package 'System'

ItemSimilarityRecommender
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 26/06/2018

INCOMING STRUCTURAL RELATIONSHIPS

Aggregation from TrainData to ItemSimilarityRecommender
[Direction is 'Source -> Destination'.]

ATTRIBUTES

coocurrence_matrix : Private
[Is static False. Containment is Not Specified.]

item_id : int Private
[Is static False. Containment is Not Specified.]

item_similarity_recommendations : Private
[Is static False. Containment is Not Specified.]

metadata : Private
[Is static False. Containment is Not Specified.]

train_data : TrainData Private
[Is static False. Containment is Not Specified.]

user_id : int Private
[Is static False. Containment is Not Specified.]

OPERATIONS

construct_coocurrence_matrix () : void Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

create () : void Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

generate_top_recommendations () : void Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

get_all_items_data () : void Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

get_similar_items () : void Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

get_user_items () : void Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS
recommend () : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

1.2.1.6.6 Museum

Class in package 'System'

Museum
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 04/07/2018

INCOMING STRUCTURAL RELATIONSHIPS
Aggregation from TrainData to Museum [Direction is 'Source -> Destination'.]

ATTRIBUTES
item_id : int Private [Is static False. Containment is Not Specified.]
popularity_recommendations : Private [Is static False. Containment is Not Specified.]
train_data : TrainData Private [Is static False. Containment is Not Specified.]
user_id : int Private [Is static False. Containment is Not Specified.]

OPERATIONS
create () : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
recommend () : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

1.2.1.6.7 TrainData

Class in package 'System'

TrainData
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 26/06/2018

OUTGOING STRUCTURAL RELATIONSHIPS

OUTGOING STRUCTURAL RELATIONSHIPS

Aggregation from TrainData to ItemSimilarityRecommender
[Direction is 'Source -> Destination'.]

Aggregation from TrainData to Museum
[Direction is 'Source -> Destination'.]

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) Artwork Target: Public (Class) TrainData

1.2.1.6.8 User

Class in package 'System'

User
Version 1.0 Phase 1.0 Proposed
Nancy created on 04/07/2018. Last modified 04/07/2018

OUTGOING STRUCTURAL RELATIONSHIPS

Aggregation from User to UserRating
[Direction is 'Source -> Destination'.]

ATTRIBUTES

last_name : char Private
[Is static False. Containment is Not Specified.]

name : char Private
[Is static False. Containment is Not Specified.]

username : char Private
[Is static False. Containment is Not Specified.]

1.2.1.6.9 UserRating

Class in package 'System'

UserRating
Version 1.0 Phase 1.0 Proposed
Nancy created on 04/07/2018. Last modified 04/07/2018

INCOMING STRUCTURAL RELATIONSHIPS

Aggregation from Artwork to UserRating
[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Aggregation from User to UserRating

[Direction is 'Source -> Destination'.]

ATTRIBUTES

artwork : Artwork Private

[Is static False. Containment is Not Specified.]

rating : int Private

[Is static False. Containment is Not Specified.]

user : User Private

[Is static False. Containment is Not Specified.]

1.2.1.7 Frameworks

Package in package 'Clases'

Frameworks
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 29/06/2018

1.2.1.7.1 Frameworks diagram

Class diagram in package 'Frameworks'

Frameworks
Version 1.0
Nancy created on 26/06/2018. Last modified 26/06/2018

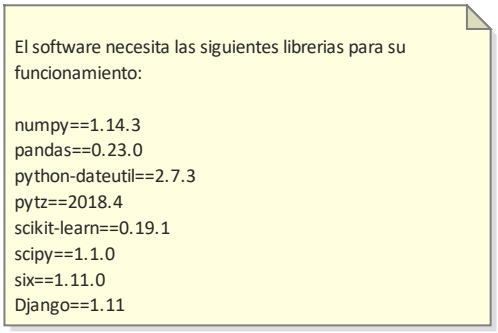

Figure 7: Frameworks

1.2.1.7.2 Note

Note in package 'Frameworks'

El software necesita las siguientes librerias para su funcionamiento:

numpy==1.14.3
pandas==0.23.0
python-dateutil==2.7.3
pytz==2018.4
scikit-learn==0.19.1
scipy==1.1.0
six==1.11.0
Django==1.11

Note
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 26/06/2018
Extends

1.2.2 Dominio

Package in package 'Estructurales'

Dominio
Version 1.0 Phase 1.0 Proposed
Nancy created on 29/06/2018. Last modified 29/06/2018

1.2.2.1 Domain Model diagram

Class diagram in package 'Dominio'

Domain Model
Version 1.0
Nancy created on 26/06/2018. Last modified 26/06/2018

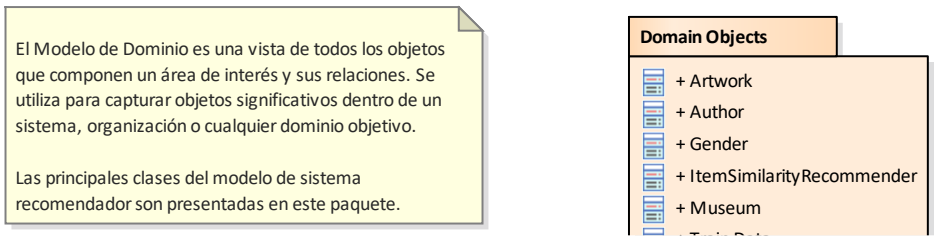

Figure 8: Domain Model

1.2.2.2 Note

Note in package 'Dominio'

El Modelo de Dominio es una vista de todos los objetos que componen un área de interés y sus relaciones. Se utiliza para capturar objetos significativos dentro de un sistema, organización o cualquier dominio objetivo.

Las principales clases del modelo de sistema recomendador son presentadas en este paquete.

Note
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 26/06/2018
Extends

1.2.2.3 Domain Objects

Package in package 'Dominio'

Domain Objects
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 29/06/2018

1.2.2.4 Domain Objects

Package in package 'Dominio'

Domain Objects
Version 1.0 Phase 1.0 Proposed

Nancy created on 26/06/2018. Last modified 29/06/2018

1.2.2.4.1 Domain Objects diagram

Class diagram in package 'Domain Objects'

Domain Objects
Version 1.0
Nancy created on 26/06/2018. Last modified 04/07/2018

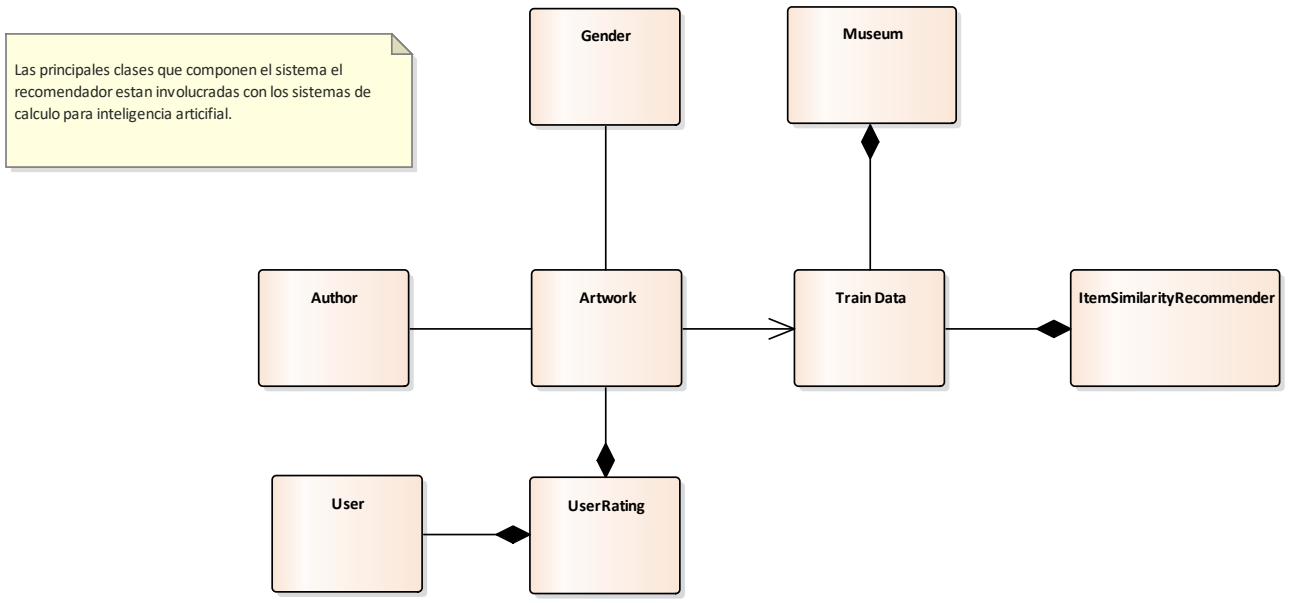

Figure 9: Domain Objects

1.2.2.4.2 Note

Note in package 'Domain Objects'

Las principales clases que componen el sistema el recomendador estan involucradas con los sistemas de calculo para inteligencia articifial.

Note
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 26/06/2018
Extends

1.2.2.4.3 Artwork

Class in package 'Domain Objects'

Artwork
Version 1.0 Phase 1.0 Proposed
Nancy created on 04/07/2018. Last modified 04/07/2018

OUTGOING STRUCTURAL RELATIONSHIPS

OUTGOING STRUCTURAL RELATIONSHIPS

Aggregation from Artwork to UserRating

[Direction is 'Source -> Destination'.]

ASSOCIATIONS

Association (direction: Unspecified)

Source: Public (Class) Artwork Target: Public (Class) Gender

Association (direction: Source -> Destination)

Source: Public (Class) Artwork Target: Public (Class) Train Data

Association (direction: Unspecified)

Source: Public (Class) Author Target: Public (Class) Artwork

1.2.2.4.4 Author

Class in package 'Domain Objects'

Author
Version 1.0 Phase 1.0 Proposed
Nancy created on 04/07/2018. Last modified 04/07/2018

ASSOCIATIONS

Association (direction: Unspecified)

Source: Public (Class) Author Target: Public (Class) Artwork

1.2.2.4.5 Gender

Class in package 'Domain Objects'

Gender
Version 1.0 Phase 1.0 Proposed
Nancy created on 04/07/2018. Last modified 04/07/2018

ASSOCIATIONS

Association (direction: Unspecified)

Source: Public (Class) Artwork Target: Public (Class) Gender

1.2.2.4.6 ItemSimilarityRecommender

Class in package 'Domain Objects'

ItemSimilarityRecommender
Version 1.0 Phase 1.0 Proposed

Nancy created on 26/06/2018. Last modified 26/06/2018

INCOMING STRUCTURAL RELATIONSHIPS

Aggregation from Train Data to ItemSimilarityRecommender
[Direction is 'Source -> Destination'.]

1.2.2.4.7 Museum

Class in package 'Domain Objects'

Museum
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 04/07/2018

INCOMING STRUCTURAL RELATIONSHIPS

Aggregation from Train Data to Museum
[Direction is 'Source -> Destination'.]

1.2.2.4.8 Train Data

Class in package 'Domain Objects'

Train Data
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 26/06/2018

OUTGOING STRUCTURAL RELATIONSHIPS

Aggregation from Train Data to ItemSimilarityRecommender
[Direction is 'Source -> Destination'.]

Aggregation from Train Data to Museum
[Direction is 'Source -> Destination'.]

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) Artwork Target: Public (Class) Train Data

1.2.2.4.9 User

Class in package 'Domain Objects'

User
Version 1.0 Phase 1.0 Proposed
Nancy created on 04/07/2018. Last modified 04/07/2018

OUTGOING STRUCTURAL RELATIONSHIPS

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

1.2.2.4.10 UserRating

Class in package 'Domain Objects'

UserRating
Version 1.0 Phase 1.0 Proposed
Nancy created on 04/07/2018. Last modified 04/07/2018

INCOMING STRUCTURAL RELATIONSHIPS
Aggregation from User to UserRating [Direction is 'Source -> Destination'.]
Aggregation from Artwork to UserRating [Direction is 'Source -> Destination'.]

1.2.3 Estructurales

Package in package 'Estructurales'

Estructurales
Version 1.0 Phase 1.0 Proposed
Nancy created on 29/06/2018. Last modified 29/06/2018

1.2.3.1 Deployment Model diagram

Deployment diagram in package 'Estructurales'

Deployment Model
Version 1.0
Nancy created on 26/06/2018. Last modified 26/06/2018

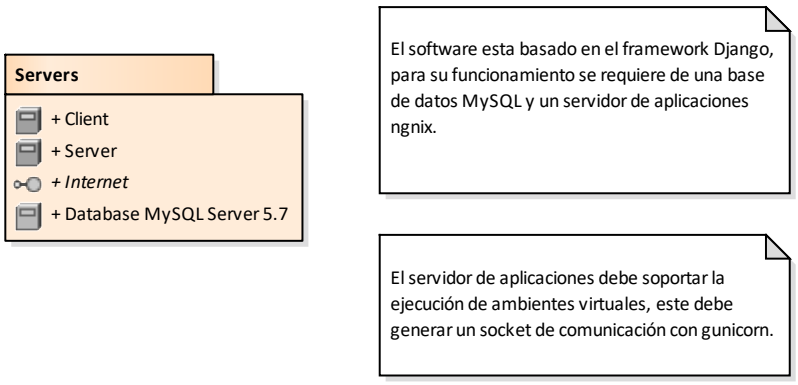

Figure 10: Deployment Model

1.2.3.2 Note

Note in package 'Estructurales'

El software esta basado en el framework Django, para su funcionamiento se requiere de una base de datos MySQL y un servidor de aplicaciones ngnix.

Note
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 26/06/2018
Extends

1.2.3.3 Note

Note in package 'Estructurales'

El servidor de aplicaciones debe soportar la ejecución de ambientes virtuales, este debe generar un socket de comunicación con gunicorn.

Note
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 26/06/2018
Extends

1.2.3.4 Servers

Package in package 'Estructurales'

Servers
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 29/06/2018

1.2.3.5 Servers

Package in package 'Estructurales'

Servers
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 29/06/2018

1.2.3.5.1 Servers diagram

Deployment diagram in package 'Servers'

Servers
Version 1.0
Nancy created on 26/06/2018. Last modified 26/06/2018

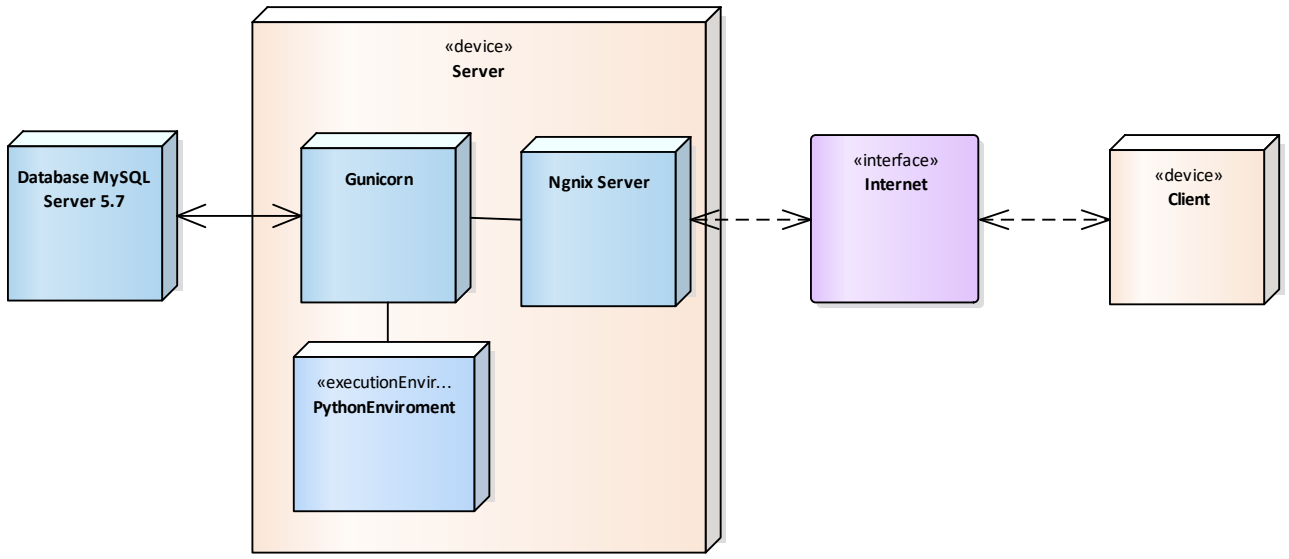

Figure 11: Servers

1.2.3.5.2 Internet

Interface in package 'Servers'

Internet
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 26/06/2018

CONNECTORS

CONNECTORS

Dependency Bi-Directional
From: Ngnix Server : Node, Public
To: Internet : Interface, Public

Dependency Bi-Directional
From: Client : Device, Public
To: Internet : Interface, Public

1.2.3.5.3 Database MySQL Server 5.7

Node in package 'Servers'

Database MySQL Server 5.7
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 26/06/2018

OUTGOING STRUCTURAL RELATIONSHIPS

CommunicationPath from Database MySQL Server 5.7 to Gunicorn
[Direction is 'Bi-Directional'.]

1.2.3.5.4 Client

Device in package 'Servers'

Client
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 26/06/2018

CONNECTORS

Dependency Bi-Directional
From: Client : Device, Public
To: Internet : Interface, Public

1.2.3.5.5 Server

Device in package 'Servers'

Server
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 26/06/2018

ELEMENTS OWNED BY Server

PythonEnviroment : ExecutionEnvironment

Gunicorn : Node

Ngnix Server : Node

1.2.3.5.5.1 PythonEnviroment

ExecutionEnvironment owned by 'Server', in package 'Servers'

PythonEnviroment
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 26/06/2018

ASSOCIATIONS

Association (direction: Unspecified)

Source: Public (Node) Gunicorn

Target: Public (ExecutionEnvironment) PythonEnviroment

1.2.3.5.5.2 Gunicorn

Node owned by 'Server', in package 'Servers'

Gunicorn
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 26/06/2018

INCOMING STRUCTURAL RELATIONSHIPS

CommunicationPath from Database MySQL Server 5.7 to Gunicorn

[Direction is 'Bi-Directional'.]

ASSOCIATIONS

Association (direction: Unspecified)

Source: Public (Node) Gunicorn

Target: Public (Node) Ngnix Server

Association (direction: Unspecified)

Source: Public (Node) Gunicorn

Target: Public (ExecutionEnvironment) PythonEnviroment

1.2.3.5.5.3 Ngnix Server

Node owned by 'Server', in package 'Servers'

Ngnix Server
Version 1.0 Phase 1.0 Proposed
Nancy created on 26/06/2018. Last modified 26/06/2018

CONNECTORS

Dependency Bi-Directional
From: Ngnix Server : Node, Public
To: Internet : Interface, Public

ASSOCIATIONS

Association (direction: Unspecified)

Source: Public (Node) Gunicorn

Target: Public (Node) Ngnix Server

1.2.4 Paquetes

Package in package 'Estructurales'

Paquetes
Version 1.0 Phase 1.0 Proposed
Nancy created on 04/07/2018. Last modified 04/07/2018

1.2.4.1 Paquetes diagram

Package diagram in package 'Paquetes'

Paquetes
Version 1.0
Nancy created on 04/07/2018. Last modified 04/07/2018

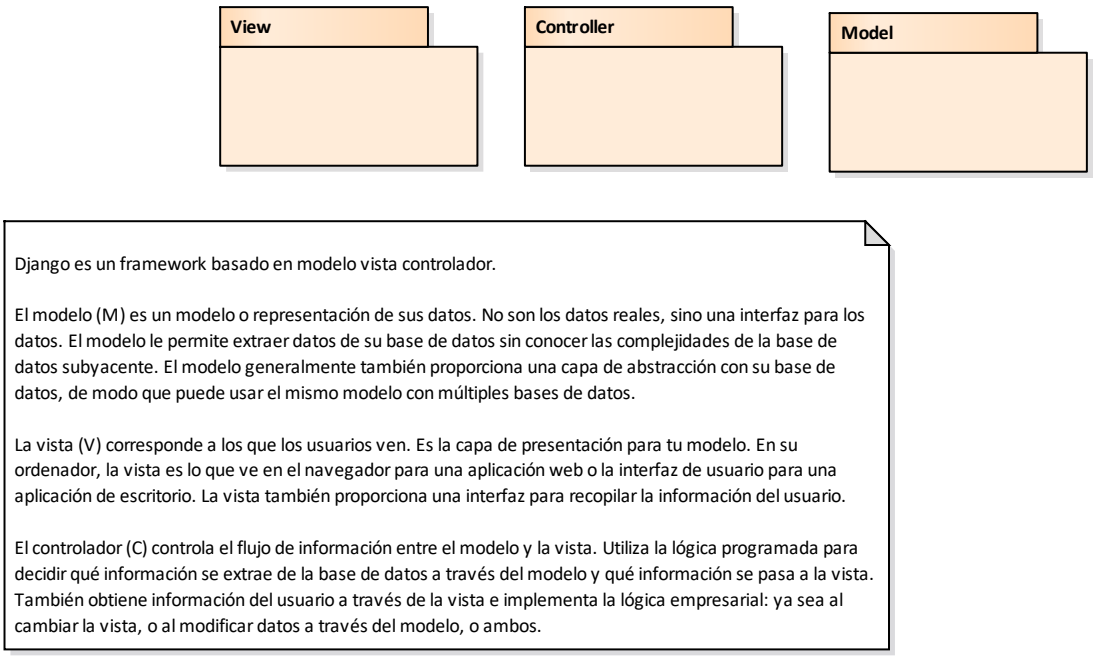

Figure 12: Paquetes

1.2.4.2 Note

Note in package 'Paquetes'

Django es un framework basado en modelo vista controlador.

El modelo (M) es un modelo o representación de sus datos. No son los datos reales, sino una interfaz para los datos. El modelo le permite extraer datos de su base de datos sin conocer las complejidades de la base de datos subyacente. El modelo generalmente también proporciona una capa de abstracción con su base de datos, de modo que puede usar el mismo modelo con múltiples bases de datos.

La vista (V) corresponde a los que los usuarios ven. Es la capa de presentación para tu modelo. En su ordenador, la vista es lo que ve en el navegador para una aplicación web o la interfaz de usuario para una aplicación de escritorio. La vista también proporciona una interfaz para recopilar la información del usuario.

El controlador (C) controla el flujo de información entre el modelo y la vista. Utiliza la lógica programada para decidir qué información se extrae de la base de datos a través del modelo y qué información se pasa a la vista. También obtiene información del usuario a través de la vista e implementa la lógica empresarial: ya sea al cambiar la vista, o al modificar datos a través del modelo, o ambos.

Note

Version 1.0 Phase 1.0 Proposed
Nancy created on 04/07/2018. Last modified 04/07/2018
Extends

1.2.4.3 Controller

Package in package 'Paquetes'

Controller
Version 1.0 Phase 1.0 Proposed
Nancy created on 04/07/2018. Last modified 04/07/2018

1.2.4.4 Model

Package in package 'Paquetes'

Model
Version 1.0 Phase 1.0 Proposed
Nancy created on 04/07/2018. Last modified 04/07/2018

1.2.4.5 View

Package in package 'Paquetes'

View
Version 1.0 Phase 1.0 Proposed
Nancy created on 04/07/2018. Last modified 04/07/2018

1.2.4.6 Controller

Package in package 'Paquetes'

Controller
Version 1.0 Phase 1.0 Proposed
Nancy created on 04/07/2018. Last modified 04/07/2018

1.2.4.7 Model

Package in package 'Paquetes'

Model
Version 1.0 Phase 1.0 Proposed
Nancy created on 04/07/2018. Last modified 04/07/2018

1.2.4.8 View

Package in package 'Paquetes'

View
Version 1.0 Phase 1.0 Proposed
Nancy created on 04/07/2018. Last modified 04/07/2018

1.3 Extendidos

Package in package 'Model'

Extendidos
Version 1.0 Phase 1.0 Proposed
Nancy created on 29/06/2018. Last modified 29/06/2018

1.3.1 Metamodelo

Package in package 'Extendidos'

Metamodelo
Version 1.0 Phase 1.0 Proposed
Nancy created on 04/07/2018. Last modified 04/07/2018

1.3.1.1 Metamodelo diagram

Data Modeling diagram in package 'Metamodelo'

Metamodelo
Version 1.0
Nancy created on 04/07/2018. Last modified 05/07/2018

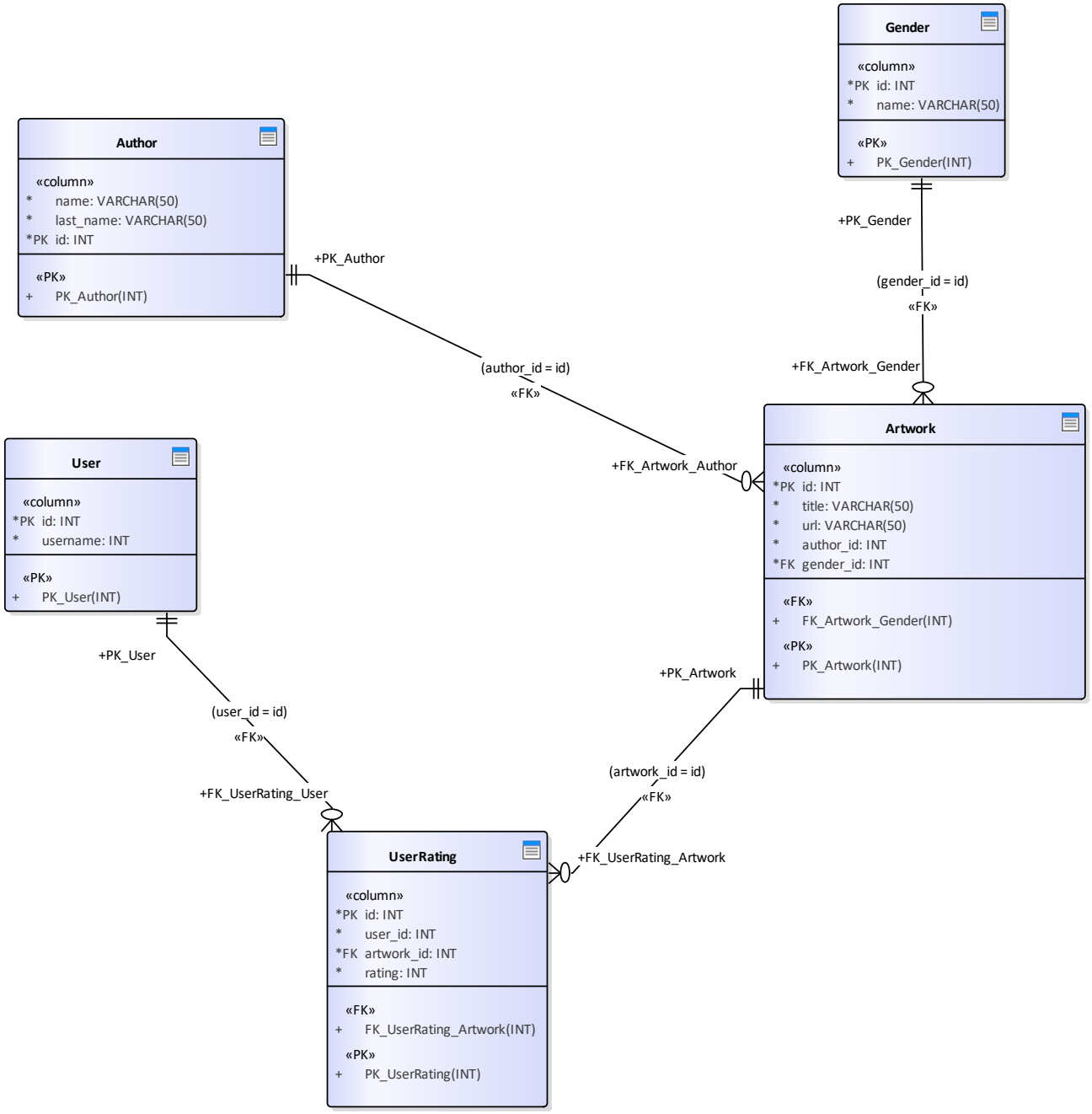

Figure 13: Metamodelo

1.3.1.2 Artwork

Database table in package 'Metamodelo'

Artwork
Version 1.0 Phase 1.0 Proposed
Nancy created on 05/07/2018. Last modified 05/07/2018
DBMS MySql

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
id	INT	True	Properties: AutoNum = True property = AutoNum=True;

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
title	VARCHAR(50)	True	
url	VARCHAR(50)	True	
author_id	INT	True	
gender_id	INT	True	

PRIMARY KEY NAME	COLUMNS	COMMENTS
PK_Artwork	id	

FOREIGN KEY NAME	COLUMNS	REFERENCES
FK_Artwork_Gender	gender_id	Gender(id)
FK_Artwork_Author		Author()

1.3.1.3 Author

Database table in package 'Metamodelo'

Author
Version 1.0 Phase 1.0 Proposed
Nancy created on 05/07/2018. Last modified 05/07/2018
DBMS MySql

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
name	VARCHAR(50)	True	
last_name	VARCHAR(50)	True	
id	INT	True	Properties: AutoNum = True property = AutoNum=True;

PRIMARY KEY NAME	COLUMNS	COMMENTS
PK_Author	id	

1.3.1.4 Gender

Database table in package 'Metamodelo'

Gender

Version 1.0 Phase 1.0 Proposed
Nancy created on 05/07/2018. Last modified 05/07/2018
DBMS MySql

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
id	INT	True	Properties: AutoNum = True property = AutoNum=True;
name	VARCHAR(50)	True	

PRIMARY KEY NAME	COLUMNS	COMMENTS
PK_Gender	id	

1.3.1.5 User

Database table in package 'Metamodelo'

User
Version 1.0 Phase 1.0 Proposed
Nancy created on 05/07/2018. Last modified 05/07/2018
DBMS MySql

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
id	INT	True	Properties: AutoNum = True property = AutoNum=True;
username	INT	True	

PRIMARY KEY NAME	COLUMNS	COMMENTS
PK_User	id	

1.3.1.6 UserRating

Database table in package 'Metamodelo'

UserRating
Version 1.0 Phase 1.0 Proposed
Nancy created on 05/07/2018. Last modified 05/07/2018
DBMS MySql

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
id	INT	True	Properties: AutoNum = True property = AutoNum=True;

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
user_id	INT	True	
artwork_id	INT	True	
rating	INT	True	

PRIMARY KEY NAME	COLUMNS	COMMENTS
PK_UserRating	id	

FOREIGN KEY NAME	COLUMNS	REFERENCES
FK_UserRating_Artwork	artwork_id	Artwork(id)
FK_UserRating_User	user_id	User(id)

1.3.2 Requerimientos

Package in package 'Extendidos'

Requerimientos
Version 1.0 Phase 1.0 Proposed
Nancy created on 04/07/2018. Last modified 04/07/2018

1.3.2.1 Requerimientos diagram

Requirements diagram in package 'Requerimientos'

Requerimientos
Version 1.0
Nancy created on 29/06/2018. Last modified 04/07/2018

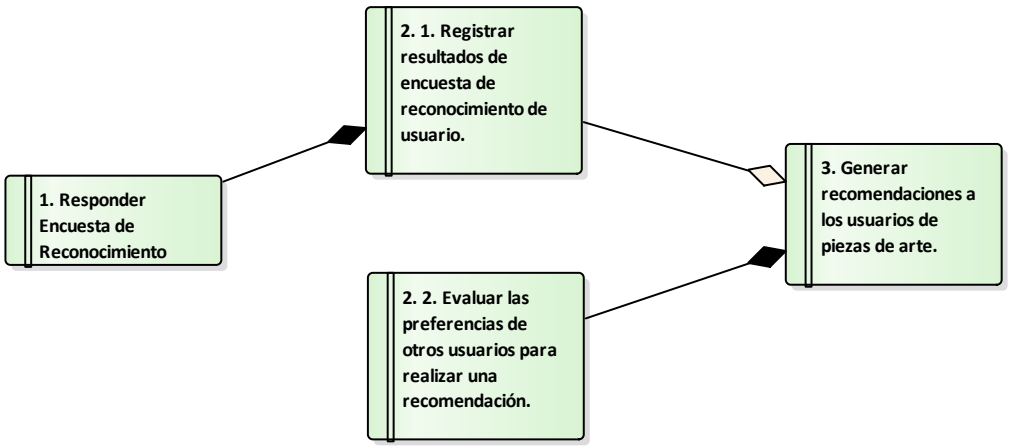

Figure 14: Requerimientos

1.3.2.2 1. Responder Encuesta de Reconocimiento

Requirement «Functional» in package 'Requerimientos'

1. Responder Encuesta de Reconocimiento
Version 1.0 Phase 1.0 Proposed
Nancy created on 04/07/2018. Last modified 04/07/2018

OUTGOING STRUCTURAL RELATIONSHIPS

⇦ Aggregation from «Functional» 1. Responder Encuesta de Reconocimiento to «Functional» 2. 1. Registrar resultados de encuesta de reconocimiento de usuario.

[Direction is 'Source -> Destination'.]

1.3.2.3 2. 1. Registrar resultados de encuesta de reconocimiento de usuario.

Requirement «Functional» in package 'Requerimientos'

2. 1. Registrar resultados de encuesta de reconocimiento de usuario.
Version 1.0 Phase 1.0 Proposed
Nancy created on 04/07/2018. Last modified 04/07/2018

OUTGOING STRUCTURAL RELATIONSHIPS

Aggregation from «Functional» 2. 1. Registrar resultados de encuesta de reconocimiento de usuario. to «Functional» 3. Generar recomendaciones a los usuarios de piezas de arte.

[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

Aggregation from «Functional» 1. Responder Encuesta de Reconocimiento to «Functional» 2. 1. Registrar resultados de encuesta de reconocimiento de usuario.

[Direction is 'Source -> Destination'.]

1.3.2.4 2. 2. Evaluar las preferencias de otros usuarios para realizar una recomendación.

Requirement «Functional» in package 'Requerimientos'

2. 2. Evaluar las preferencias de otros usuarios para realizar una recomendación.
Version 1.0 Phase 1.0 Proposed
Nancy created on 04/07/2018. Last modified 04/07/2018

OUTGOING STRUCTURAL RELATIONSHIPS

Aggregation from «Functional» 2. 2. Evaluar las preferencias de otros usuarios para realizar una recomendación. to «Functional» 3. Generar recomendaciones a los usuarios de piezas de arte.

[Direction is 'Source -> Destination'.]

1.3.2.5 3. Generar recomendaciones a los usuarios de piezas de arte.

Requirement «Functional» in package 'Requerimientos'

3. Generar recomendaciones a los usuarios de piezas de arte.
Version 1.0 Phase 1.0 Proposed
Nancy created on 04/07/2018. Last modified 04/07/2018

INCOMING STRUCTURAL RELATIONSHIPS

Aggregation from «Functional» 2. 1. Registrar resultados de encuesta de reconocimiento de usuario. to «Functional» 3. Generar recomendaciones a los usuarios de piezas de arte.

[Direction is 'Source -> Destination'.]

Aggregation from «Functional» 2. 2. Evaluar las preferencias de otros usuarios para realizar una recomendación. to «Functional» 3. Generar recomendaciones a los usuarios de piezas de arte.

[Direction is 'Source -> Destination'.]