Pla

Plan de proyecto y gestión de riesgos

Escuela Técnica Superior de Ingeniería Informática

Introducción a Ingeniería del Software



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# 1. Miembros del equipo

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# 2. Introducción

Nuestro proyecto consiste en una aplicación web enfocada al entretenimiento audiovisual (películas, series, libros, etc), donde poder consultar información (como el género, fecha de salida, director/autor, etc.) sobre diferentes títulos, así como llevar un seguimiento personal de los contenidos que ya han sido vistos o leídos.

Nuestra aplicación da la oportunidad a los usuarios de pertenecer a una comunidad donde poder interactuar entre sí y conocer a otras personas que comparten sus mismos gustos.

Además, siendo usuario de nuestra plataforma podrás llevar a cabo desafíos personales, así como los retos de la comunidad, ideales como incentivo a descubrir nuevos géneros.

# 

# 3. Roles

Analista: Jorge, Nacho, Artacho

Diseñador gráfico: Marina, Manu, Antonio

Programador: Diego, Antonio, Nacho, Artacho

Tester: Iván, Mario

Documentadores: Astudillo, Mario

Scrum Master: Manu, Iván

Product Owner: Marina, Diego

Modelador: Jorge, Astudillo

|  |  |  |
| --- | --- | --- |
| **Miembros** | **Rol 1** | **Rol 2** |
| Jorge | Analista | Modelador |
| Mario | Tester | Documentador |
| Antonio | Programador | Diseñador gráfico |
| Marina | Product Owner | Diseñador gráfico |
| Manu | Scrum Master | Diseñador gráfico |
| Nacho | Analista | Programador |
| Artacho | Analista | Programador |
| Diego | Product Owner | Programador |
| Pablo | Documentador | Modelador |
| Iván | Tester | Scrum Master |

## 3.1. Explicación de roles

Analista:

El analista se asegurará de reunir los requisitos y especificaciones que necesite el producto encargado por el cliente.

Documentador:

Se encarga de redactar memorias actualizadas con los avances que se van realizando en el proyecto y de las reuniones que tengan lugar, así como de actualizar y comprobar que los distintos ficheros se encuentren en el repositorio.

Diseñador Gráfico:

Da un aspecto atractivo y amigable para el usuario a la aplicación usando lenguajes de diseño tales como HTML o CSS.

Tester:

Se encarga de asegurar que los códigos no presenten fallos y funcionen de forma correcta en todas las situaciones.

Scrum Master:

Encargado de realizar la lista de tareas a realizar por el equipo de desarrolladores y organizar la fase de sprint.

Programador:

Implementa las distintas funcionalidades de la aplicación usando lenguajes de programación.

Product Owner:

Se encarga de representar los intereses del cliente dentro del equipo de desarrolladores.

Modelador:

Su papel es desarrollar los diagramas y modelaje para la visualización global del proyecto, así como el diagrama de casos de uso o historias de usuario.

# 4. Planificación

Tras consultar información sobre diferentes modelos de procesos software finalmente hemos decidido utilizar la metodología Scrum.

Scrum es una metodología ágil de gestión de proyectos, la cual se basa en un proceso iterativo en el que en cada iteración el producto se ve modificado, obteniendo de esta manera una versión reducida del producto final.

Scrum divide el proceso en diferentes fases y asigna a cada miembro del equipo un rol.

Los roles asignados en Scrum son los siguientes:

* **Scrum master:** Se encarga de organizar y dirigir las reuniones, además de asegurarse de que todos los miembros dispongan de las herramientas necesarias para realizar sus tareas. Lidera y dirige al equipo.
* **Product owner:** Es el que tiene la visión más clara de lo que el equipo va a construir. Se encarga de indicar que debe ir al Backlog y representa a los usuarios y clientes del producto.
* **Equipo de desarrollo:** Son los profesionales que se encargan del desarrollo del producto.

El proceso se divide en las siguientes fases:

* **Visión:** Fase de recogida de ideas.
* **Sprint:** Fase de desarrollo.
* **Incremento del producto:** Fase de implementación y modificación del producto.

En Scrum, se suelen usar unos documentos concretos para facilitar el entendimiento y la organización de tareas, estos son: el product backlog, el sprint backlog y el burndown chart.

Hemos escogido Scrum como metodología para nuestro proyecto software principalmente por la implicación que este modelo otorga al cliente durante todo el proceso, de esta manera que nuestro cliente está informado en todo momento de la fase en la que se encuentra el producto y de los cambios que ha sufrido a lo largo del tiempo.

De esta manera recibimos un feedback de nuestro cliente, lo cual nos es muy útil para conseguir desarrollar un producto final lo más adecuado posible a las expectativas del cliente.

Además, Scrum es una metodología ideal para proyectos pequeños con bastante incertidumbre puesto que es muy flexible a cambios durante el proceso, lo que nos permite reducir riesgos en el proyecto.

## 4.1. Trello

![Interfaz de usuario gráfica, Texto, Aplicación, Chat o mensaje de texto

Descripción generada automáticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDsRXhpZgAATU0AKgAAAAgABAE7AAIAAAALAAAISodpAAQAAAABAAAIVpydAAEAAAAWAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE1hbnUgSmVyZXoAAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM0MgAAkpIAAgAAAAM0MgAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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![Interfaz de usuario gráfica, Texto, Aplicación, Chat o mensaje de texto

Descripción generada automáticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDsRXhpZgAATU0AKgAAAAgABAE7AAIAAAALAAAISodpAAQAAAABAAAIVpydAAEAAAAWAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE1hbnUgSmVyZXoAAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM3MgAAkpIAAgAAAAM3MgAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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## 4.2. Power-Ups

Interfaz de usuario gráfica, Aplicación, Teams

Descripción generada automáticamente

* + **Google drive:** Vinculación de la cuenta de google drive para facilitar la subida de archivos.
  + **TeamGantt:** Elaboración de líneas de tiempo.
  + **GitHub:** Supervisión de todo lo que ocurre en GitHub.
  + **Box:** Integra un servicio de nube sin tener que salir de Trello.
  + **Planyway:** calendario alternativo al predeterminado de Trello con más opciones y funciones que nos permitirá organizarnos mejor.

**Interfaz de usuario gráfica, Aplicación

Descripción generada automáticamente**

Interfaz de usuario gráfica, Aplicación, Tabla, Excel

Descripción generada automáticamente

Interfaz de usuario gráfica, Aplicación, Tabla, Excel

Descripción generada automáticamente

Interfaz de usuario gráfica, Aplicación, Tabla, Excel

Descripción generada automáticamente

Interfaz de usuario gráfica, Aplicación, Tabla, Excel

Descripción generada automáticamente

## 

## 4.3. Sprint 2

Interfaz de usuario gráfica, Aplicación

Descripción generada automáticamente

Interfaz de usuario gráfica, Aplicación, Teams

Descripción generada automáticamente

Interfaz de usuario gráfica, Aplicación, Teams

Descripción generada automáticamente

Interfaz de usuario gráfica, Aplicación, Teams

Descripción generada automáticamente

Interfaz de usuario gráfica, Aplicación, Teams

Descripción generada automáticamente

Interfaz de usuario gráfica, Texto, Aplicación, Chat o mensaje de texto

Descripción generada automáticamente

Interfaz de usuario gráfica, Aplicación, Teams

Descripción generada automáticamente

## 4.4. Ejemplo de power-ups teamgank y planyway

Interfaz de usuario gráfica, Texto, Aplicación

Descripción generada automáticamente

## 4.5. Proceso de elección para el nombre de la app

Interfaz de usuario gráfica, Texto, Aplicación

Descripción generada automáticamente

## 4.6. Product Backlog

## Interfaz de usuario gráfica, Aplicación, Correo electrónico, Sitio web Descripción generada automáticamente

## Interfaz de usuario gráfica, Aplicación, Correo electrónico, Sitio web Descripción generada automáticamenteInterfaz de usuario gráfica, Aplicación, Correo electrónico Descripción generada automáticamente4.7. Sprint 3 + product backlog

Interfaz de usuario gráfica, Aplicación, Sitio web

Descripción generada automáticamente

## 4.8. Sprint 4

## Interfaz de usuario gráfica, Aplicación, Correo electrónico, Sitio web Descripción generada automáticamente

## 4.9. Sprint 5

## Interfaz de usuario gráfica, Aplicación, Correo electrónico Descripción generada automáticamente

## Interfaz de usuario gráfica, Texto, Aplicación, Chat o mensaje de texto Descripción generada automáticamente4.10 Sprint 6 y 7

# 5. Gestión de Riesgos

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Riesgo | Descripción | Probabilidad | Impacto | Tipo | Estrategia |
| Pérdida de datos | Perder distintos datos de la base de datos del proyecto. | Baja | Alto | Proyecto y producto | Disponer de copias de seguridad e intentar encontrar datos que puedan suplir los que se hayan perdido |
| Falta de tiempo | Se ha asignado un tiempo insuficiente para realizar una tarea. | Media | Alto | Proyecto y producto | Reducir el producto final |
| Un compañero abandona el grupo | Un compañero del equipo decide abandonar el proyecto o la asignatura. | Baja | Leve/Medio | Proyecto | Repartir sus funciones entre el resto del equipo |
| Cambios bruscos en el producto | El cliente decide hacer un cambio drástico en el producto final. | Leve | Crítico | Proyecto | Reutilizar lo posible y alcanzar el mismo punto de desarrollo anterior |
| Contratiempos CASE | Incorrecto funcionamiento de las herramientas CASE. | Media/Leve | Leve | Producto | Buscar otras alternativas software |
| No encontrar solución a cierto problema | Desconocimiento de cualquier ámbito del proyecto. | Alta | Leve/Medio | Proyecto | Informarse según documentaciones oficiales y foros para encontrar la solución |

# 

# 6. Requisitos

**RF1: Registrar usuario**

Como interesado en usar moviErole,

Quiero ser capaz de crearme un perfil con mi información personal

Para poder usar la aplicación.

**Pruebas de aceptación**

**-** Se registra un usuario nuevo y se crea un perfil con los campos rellenados por el usuario.

- Se intenta registrar un usuario nuevo con un nombre de usuario o correo ya registrado y se recibe un mensaje de error (no se crea por tanto el perfil).

- No se permite el registro de un nuevo usuario si no ha rellenado el nombre, el correo y la contraseña o no son válidos.

**RNF1: Campos del usuario**

Como gestor de la base de datos,

Quiero tener disponible las credenciales del usuario: nombre de usuario, correo, contraseña de forma obligatoria. Y de forma opcional nombre, apellido, foto de perfil, biografía escrita de máximo 200 caracteres, fecha de nacimiento

Para gestionar eficientemente el inicio de sesión.

**RNF2: Usuario único**

Como gestor de la base de datos,

Quiero que cada cuenta tenga asociado un correo electrónico y nombre y estos a su vez sean únicos

Para evitar conflictos de correos/cuentas repetidas

**RF2: Ofrecer un login**

Como usuario de la aplicación,

Quiero poder iniciar sesión con mi propia clave y que me brinde seguridad de que otra persona no acceda a mi cuenta

Para poder acceder a la aplicación.

**Pruebas de aceptación**

- Se pide al usuario que introduzca su nombre de usuario y su contraseña.

- Si el usuario no se ha registrado previamente o si ha puesto algún campo erróneamente, se recibe un mensaje de error

- Si los campos son correctos y corresponden a un perfil registrado con anterioridad, se permite el acceso a la aplicación.

**RF3: Visualizar perfiles**

Como usuario de la aplicación,

Quiero ver los perfiles de otros usuarios de la aplicación y su información

**Pruebas de aceptación**

- El usuario clica en el perfil de otro usuario y le lleva a ver la información de éste (nombre, foto, listado de películas…).

**RF4: Personalización modular**

Como usuario de la aplicación,

Quiero ser capaz de modificar la información que se muestra en mi perfil por módulos (listas de contenido, película favorita…)

Para poder personalizar mi perfil.

**Pruebas de aceptación**

- El usuario no modifica nada y, por tanto, el perfil permanece intacto.

- El usuario modifica los distintos módulos que conforman su perfil y los cambios se ven actualizados.

**RF5: Editar perfil**

Como usuario,

Quiero tener la posibilidad de modificar los datos de mi perfil

Para mantener mi información actualizada.

**Pruebas de aceptación**

- El usuario modifica los datos que crea convenientes, y dichos datos se quedan modificados.

- Ningún otro dato del perfil sufre ningún cambio.

- Si el usuario cambia a un nombre/correo ya existente, salta un aviso de error (igual que en el login).

**RF6: Búsqueda contenido**

Como usuario,

Quiero tener la posibilidad de realizar búsquedas de los elementos almacenados en la BD

Para poder encontrar los contenidos deseados de forma sencilla.

**Pruebas de aceptación**

- El usuario escribe en la barra de búsqueda el título de uno de los contenidos y se muestran por pantalla los coincidentes.

- El usuario filtra los resultados por etiquetas y como resultado aparecen sólo los datos que cumplan las restricciones impuestas.

- Se busca un título que no se encuentre en la base de datos y no muestra nada.

**RF7: Listado del contenido**

Como usuario,

Quiero tener la posibilidad de ver un listado con el contenido que podrían interesarme

Para sacarle mayor partido a la aplicación.

**RNF3: Organización del listado**

Como equipo de desarrollo,

Queremos que el listado que se muestre sea por orden alfabético en caso de que varios resultados tengan el mismo nombre, se ordenarán por su identificador.

**RF8: Búsqueda por etiquetas**

Como usuario

Quiero poder filtrar el contenido según si son películas o series.

**Pruebas de aceptación**

- Se intenta buscar alguna película existente que no cumpla el filtro y no sale como resultado.

- Si no se selecciona ninguna etiqueta no se aplica ningún filtro.

**RNF4: Contenido con etiquetas**

Como gestor de la base de datos

Quiero que el contenido pueda estar etiquetado según género, duración, plataforma, reparto.

**RF9: Marcar el contenido con un botón**

Como usuario

Quiero tener la opción de seleccionar qué contenido me ha gustado o quiero ver.

Para que la aplicación pueda hacerme buenas recomendaciones y poder compartir mis gustos con otros usuarios (perfil)

**Pruebas de aceptación**

- El usuario marca el contenido con un botón de ‘me gusta’ y se ve actualizada la lista de películas que le han gustado en su perfil.

- De igual manera ocurre con el botón de ‘quiero ver’ y ‘me gusta’.

- Si el usuario desmarca el botón, la lista correspondiente del perfil se ve modificada (se elimina el contenido correspondiente).

- Si el usuario visita una página pero no marca ninguna opción, no se ve modificado el perfil.

**RF10: Valoración contenido**

Como usuario

Quiero poder dejar una valoración en cada contenido

**Pruebas de aceptación**

- Si el usuario da una valoración en la página del contenido, ésta perdura y puede afectar a la valoración media (ver más abajo).

- Si el usuario decide además escribir un comentario, perdurará de igual manera y se mostrará con el color de fondo adecuado (como se explica más abajo).

**RNF5: Valoración numérica**

Como gestor de la base de datos

Quiero que la valoración del contenido se numera desde 0 hasta 10 con posibilidad de añadir un comentario de 300 caracteres como máximo

Para poder gestionarla de forma más sencilla.

**RF11: Mostrar valoración media**

Como usuario

Quiero que cuando acceda a la página del contenido se muestre la valoración media

Para conocer las opiniones de los demás usuarios

**Pruebas de aceptación**

- El usuario da una valoración numérica como reseña en la página de un contenido concreto y, si procede, se ve actualizada la valoración media general.

- Si el usuario no escribe ninguna valoración, no se ve afectada la valoración media general.

**RNF6: Base de datos externa**

Como equipo de desarrollo

Queremos que los datos sean importados de una base de datos externa a través de una API

Para no tener que introducir los datos manualmente y tener disponibles una gran cantidad de datos actualizados

**RF12: Página para cada contenido**

Como usuario

Quiero que haya una página por cada contenido dentro de la base de datos

Para poder ver las valoraciones y marcar el contenido.

## 6.1. Requisitos en MagicDraw:

Diagrama

Descripción generada automáticamente

# 7. Casos de uso

## 7.1. Casos de uso en MagicDraw

## 7.2. Documentación casos de uso

### 7.2.1. Registro

**CU1** 🡪 Registrarse en la aplicación

* **Contexto de uso:**

Cuando un usuario quiera disponer de perfil en la aplicación, se registrará.

* **Precondiciones y activación:**

El usuario está conectado a la aplicación y en el formulario de registro.

* **Garantías de éxito / Postcondición:**

El usuario se registra en el sistema y tiene acceso a su perfil.

- **Escenario principal:**

1. El usuario pulsa la opción para registrarse.

2. El sistema muestra el formulario para registrarse.

3. El usuario rellena la información para registrarse.

4. El usuario pulsa la opción de registrarse.

5. La cuenta se crea en el sistema y se muestra un mensaje de éxito

al usuario.

* **Escenarios alternativos:**

La cuenta no se ha creado correctamente y se muestra un mensaje al usuario.

### 7.2.2. Iniciar sesión

**CU1** 🡪 Iniciar sesión en la aplicación.

* **Contexto de uso:**

Cuando un usuario quiera acceder a su perfil en la aplicación, iniciará sesión.

* **Precondiciones y activación:**

El usuario está conectado a la aplicación y en el formulario de inicio de sesión.

* **Garantías de éxito / Postcondición:**

El usuario inicia sesión en el sistema y tiene acceso a su perfil.

-  **Escenario principal:**

1. El usuario pulsa la opción para iniciar sesión.

2. El sistema muestra el formulario para iniciar sesión.

3. El usuario rellena la información para iniciar sesión (usuario y contraseña).

4. El usuario pulsa la opción de iniciar sesión.

5. Se inicia sesión en el sistema y se muestra el contenido de su perfil.

- **Escenarios alternativos:**

No se ha iniciado sesión correctamente y se muestra un mensaje al usuario.

### 7.2.3. Visualizar perfiles

**CU1** 🡪 Visualizar perfiles de otros usuarios

* **Contexto de uso:**

Cuando un usuario quiera visualizar el perfil de otro usuario para ver su información pública.

* **Precondiciones y activación**

El usuario está conectado a la aplicación y al perfil de algún otro usuario.

* **Garantías de éxito / Postcondición:**

El usuario visualiza la información pública de otro usuario.

-  **Escenario principal:**

1. El usuario se conecta al perfil de otro usuario.

2. El sistema muestra el perfil del otro usuario, así como su información marcada como pública.

* **Escenarios alternativos:**

No se muestra el perfil del otro usuario ya sea por un error de la aplicación o porque este no exista y se muestra un mensaje de error al usuario.

### 7.2.4. Editar del perfil

**CU1** 🡪 Editar nuestro perfil de forma modular

* **Contexto de uso:**

Cuando un usuario quiera editar la información de su perfil.

* **Precondiciones y activación:**

El usuario está conectado a la aplicación y al editor de su perfil.

* **Garantías de éxito / Postcondición:**

El usuario visualiza los cambios en su perfil.

- **Escenario principal:**

1. El usuario se conecta a su perfil.

2. Pulsa el botón de editar perfil.

3. Seleccionar los campos a editar

4. Editar los campos seleccionados

5. Pulsar en el botón de guardar los cambios

- **Escenarios alternativos:**

No se muestra el perfil del usuario con los cambios realizados y se muestra un mensaje de error al usuario.

### 7.2.5. Buscar información multimedia

**CU1** 🡪 Buscar información sobre películas o series

* **Contexto de uso:**

Cuando un usuario quiera buscar información acerca de películas o series en base a distintos filtros.

* **Precondiciones y activación:**

El usuario está conectado a la aplicación y en el formulario de búsqueda.

* **Garantías de éxito / Postcondición:**

El usuario realiza la búsqueda en el sistema y obtiene los resultados.

- **Escenario principal:**

1. El usuario pulsa la opción para buscar.

2. El sistema muestra el formulario para buscar.

3. El usuario introduce los filtros de búsqueda.

4. El usuario pulsa la opción de buscar.

5. Se realiza la búsqueda y se muestra el resultado.

- **Escenarios alternativos:**

No se ha realizado la búsqueda correctamente y se muestra un mensaje al usuario.

### 7.2.6. Etiquetado del contenido

**CU1** 🡪 Marcar una película o serie como contenido me ha gustado o no he visto

* **Contexto de uso:**

Cuando un usuario quiera etiquetar una película de alguna manera.

* **Precondiciones y activación:**

El usuario está conectado a la aplicación y en alguna entrada de película o serie.

* **Garantías de éxito / Postcondición:**

El usuario etiqueta la película o serie deseada y se añade a su perfil.

- **Escenario principal:**

1. El usuario se conecta a la entrada de alguna serie o película.

2. El usuario pulsa en la opción de etiquetado deseada.

3. Se etiqueta el contenido.

- **Escenarios alternativos:**

No se ha etiquetado el contenido correctamente y se muestra un mensaje al usuario.

### 7.2.7. Listado del contenido

**CU1** 🡪 Incluir una película o serie a una lista creada por el usuario

* **Contexto de uso:**

Cuando un usuario quiera crear una lista con un nombre identificativo y varias referencias a distinto contenido en su interior.

* **Precondiciones y activación:**

El usuario está conectado a la aplicación y a su perfil.

* **Garantías de éxito / Postcondición:**

El usuario añade un contenido a una lista creada previamente por el mismo.

- **Escenario principal:**

1. El usuario se conecta a su perfil.

2. En caso de no existir, pulsa en el botón de añadir lista.

2.1. Le da un nombre a la lista creada.

2.2. Le da al botón de guardar lista

3. El usuario añade las películas o series que desee a la lista creada.

4. Le da al botón de guardar cambios.

- **Escenarios alternativos:**

No se crea la lista o no se añaden los cambios de forma correcta y se le muestra un mensaje de error al usuario.

### 7.2.8. Valorar el contenido con comentarios

**CU1** 🡪 Añadir una valoración a una película o serie

* **Contexto de uso:**

Cuando un usuario quiera dar su opinión acerca de una película o serie.

* **Precondiciones y activación:**

El usuario está conectado a la aplicación y a la entrada de la película o serie a valorar.

* **Garantías de éxito / Postcondición:**

El usuario añade una valoración al contenido y esta se muestra en la entrada de la película o serie.

- **Escenario principal:**

1. El usuario se conecta a la entrada de un contenido.

2. Le da al botón de añadir valoración.

3. Rellena el formulario de la valoración.

4. Le da al botón de guardar valoración.

- **Escenarios alternativos:**

No se añade la valoración a la entrada de la película o serie y se muestra un mensaje de error al usuario.

# 8. Modelo de Dominio

# 9. Pruebas

Para hacer las pruebas hemos utilizado tanto Junit como Mockito. Hemos hecho ocho pruebas, tres para la clase Actor y otras tres para la clase User y dos para la clase Comment, seis de ellas de JUnit y dos pruebas de Mockito.

## 9.1. ActorTest

**import** **static** org.junit.jupiter.api.Assertions.\*;

**import** org.junit.jupiter.api.Test;

**import** **static** org.mockito.Mockito.\*;

**import** org.junit.jupiter.api.AfterEach;

**import** org.junit.jupiter.api.BeforeEach;

**import** com.erole.moviErole.APIQuery.model.contentQuery.Actor;

**class** ActorTest {

Actor actor;

@BeforeEach

**public** **void** inic() {

actor = **new** Actor();

}

@AfterEach

**public** **void** terminate() {

actor = **null**;

}

@Test //Un actor sin argumentos no contiene información

**void** inicialmenteEstaVacio() {

*assertEquals*(actor.getName(), **null**);

}

@Test //Tras insertar datos, el usuario contiene información

**void** contieneInformacion() {

actor = **new** Actor("id", "image", "name", "asCharacter");

*assertEquals*(**false**, actor.getId().isEmpty());

*assertEquals*(**false**, actor.getImage().isEmpty());

*assertEquals*(**false**, actor.getName().isEmpty());

*assertEquals*(**false**, actor.getName().isEmpty());

}

@Test //Tras cambiar los atributos a unos diferentes, debería ser distintos al actor original

**void** setTest() {

Actor actor1 = *mock*(Actor.**class**); //Creamos los mock de dos objetos Actor

Actor actor2 = *mock*(Actor.**class**);

String id1 = "1";

String id2 = "2";

*when*(actor1.getId()).thenReturn(id1); //Asignamos los id de los actores

*when*(actor2.getId()).thenReturn(id2);

actor1.setId(id2); //Cambiamos el id del primer actor

String img1 = "1";

String img2 = "2";

*when*(actor1.getImage()).thenReturn(img1); //Asignamos las imagenes

*when*(actor2.getImage()).thenReturn(img2);

actor1.setImage(img2); //Cambiamos la imagen del primer actor

String name1 = "1";

String name2 = "2";

*when*(actor1.getName()).thenReturn(name1); //Asignamos los nombres

*when*(actor2.getName()).thenReturn(name2);

actor1.setName(name2); //Cambiamos el nombre del primer actor

String char1 = "1";

String char2 = "2";

*when*(actor1.getAsCharacter()).thenReturn(char1); //Asigna los papeles

*when*(actor2.getAsCharacter()).thenReturn(char2);

actor1.setAsCharacter(char2); //Cambia el papel del primer actor

*assertEquals*(**false**, actor1.getId().equals(actor2.getId())); //Comprueba el id

*assertEquals*(**false**, actor1.getImage().equals(actor2.getImage())); //Comprueba la imagen

*assertEquals*(**false**, actor1.getName().equals(actor2.getName())); //Comprueba el nombre

*assertEquals*(**false**, actor1.getAsCharacter().equals(actor2.getAsCharacter())); //Comprueba el personaje

}

}

## 9.2. UserTest

**import** **static** org.junit.jupiter.api.Assertions.\*;

**import** org.junit.jupiter.api.Test;

**import** **static** org.mockito.Mockito.\*;

**import** java.util.Collection;

**import** java.util.Date;

**import** java.util.LinkedList;

**import** org.junit.jupiter.api.AfterEach;

**import** org.junit.jupiter.api.BeforeEach;

**import** com.erole.moviErole.model.Role;

**import** com.erole.moviErole.model.User;

**class** UserTest {

User user;

@BeforeEach

**public** **void** inic() {

user = **new** User();

}

@AfterEach

**public** **void** terminate() {

user = **null**;

}

@Test //Un usuario sin argumentos no contiene información

**void** inicialmenteEstaVacio() {

*assertEquals*(user.getName(), **null**);

}

@Test //Tras insertar datos, el usuario contiene información

**void** contieneInformacion() {

@SuppressWarnings("deprecation")

Date date = **new** ~~Date~~(1,1,1);

Collection<Role> roles;

Role rol = **new** Role("Rol");

roles = **new** LinkedList<Role>();

roles.add(rol);

user = **new** User("email", "userName", "password", "name", "surname", date,

"bio", roles);

/\*public User(String email, String userName, String password, String name, String surname, Date birthdate,

String bio, Collection<Role> roles)\*/

*assertEquals*(**false**, user.getEmail().isEmpty());

*assertEquals*(**false**, user.getName().isEmpty());

*assertEquals*(**false**, user.getPassword().isEmpty());

*assertEquals*(**false**, user.getUserName().isEmpty());

*assertEquals*(**false**, user.getSurname().isEmpty());

*assertEquals*(**false**, user.getBirthdate().equals(**null**));

*assertEquals*(**false**, user.getBio().isEmpty());

*assertEquals*(**false**, user.getRoles().isEmpty());

}

@Test

**public** **void** setTest(){

User user1 = *mock*(User.**class**); //Creamos mock de dos objetos usuario

User user2 = *mock*(User.**class**);

Integer id1 = 0;

Integer id2 = 1;

*when*(user1.getId()).thenReturn(id1); //Asignamos un identificador

*when*(user2.getId()).thenReturn(id2);

user1.setId(id2); //Cambiamos el identificador del primer usuario al del segundo

Collection<Role> roles1;

Role rol1 = **new** Role("Rol1");

roles1 = **new** LinkedList<Role>();

roles1.add(rol1);

Collection<Role> roles2;

Role rol2 = **new** Role("Rol2");

roles2 = **new** LinkedList<Role>();

roles2.add(rol2);

*when*(user1.getRoles()).thenReturn(roles1); //Asignamos los roles

*when*(user2.getRoles()).thenReturn(roles2);

user1.setRoles(roles2); //Cambiamos el rol del primer usuario

@SuppressWarnings("deprecation")

Date date1 = **new** ~~Date~~(1,1,1);

@SuppressWarnings("deprecation")

Date date2 = **new** ~~Date~~(2,2,2);

*when*(user1.getBirthdate()).thenReturn(date1); //Asignamos las fechas

*when*(user2.getBirthdate()).thenReturn(date2);

user1.setBirthdate(date2); //Cambiamos la fecha de nacimiento del primer usuario

String email1 = "1";

String email2 = "2";

*when*(user1.getEmail()).thenReturn(email1); //Asignamos los emails

*when*(user2.getEmail()).thenReturn(email2);

user2.setEmail(email2); //Cambiamos el email del primer usuario

String uName1 = "1";

String uName2 = "2";

*when*(user1.getUserName()).thenReturn(uName1); //Asignamos los nombres de usuario

*when*(user2.getUserName()).thenReturn(uName2);

user2.setUserName(uName2); //Cambiamos el nombre de usuario del primer usuario

String pass1 = "1";

String pass2 = "2";

*when*(user1.getPassword()).thenReturn(pass1); //Asignamos la contrasenya

*when*(user2.getPassword()).thenReturn(pass2);

user2.setPassword(pass2); //Cambiamos la contrasenya del primer usuario

String name1 = "1";

String name2 = "2";

*when*(user1.getName()).thenReturn(name1); //Asignamos los nombres

*when*(user2.getName()).thenReturn(name2);

user2.setPassword(name2); //Cambiamos el nombre del primer usuario

String sur1 = "1";

String sur2 = "2";

*when*(user1.getSurname()).thenReturn(sur1); //Asignamos el apellido

*when*(user2.getSurname()).thenReturn(sur2);

user2.setSurname(sur2); //Cambiamos el apellido del primer usuario

String bio1 = "1";

String bio2 = "2";

*when*(user1.getBio()).thenReturn(bio1); //Asignamos la bio

*when*(user2.getBio()).thenReturn(bio2);

user2.setPassword(bio2); //Cambiamos la bio del primer usuario

*assertEquals*(**false**, user1.getId().equals(user2.getId())); //Comprueba el id

*assertEquals*(**false**, user1.getRoles().equals(user2.getRoles())); //Comprueba los roles

*assertEquals*(**false**, user1.getBirthdate().equals(user2.getBirthdate())); //Comprueba la fecha

*assertEquals*(**false**, user1.getEmail().equals(user2.getEmail())); //Comprueba el email

*assertEquals*(**false**, user1.getUserName().equals(user2.getUserName())); //Comprueba el nombre de usuario

*assertEquals*(**false**, user1.getPassword().equals(user2.getPassword())); //Comprueba la contrasenya

*assertEquals*(**false**, user1.getName().equals(user2.getName())); //Comprueba el nombre

*assertEquals*(**false**, user1.getSurname().equals(user2.getSurname())); //Comprueba el usuario

*assertEquals*(**false**, user1.getBio().equals(user2.getBio())); //Comprueba la bio

}

}

## 9.3. CommentTest

**import** **static** org.junit.jupiter.api.Assertions.\*;

**import** org.junit.jupiter.api.Test;

**import** org.junit.jupiter.api.AfterEach;

**import** org.junit.jupiter.api.BeforeEach;

**import** com.erole.moviErole.model.Comment;

**import** com.erole.moviErole.model.User;

**public** **class** CommentTest {

Comment comment;

@BeforeEach

**public** **void** inic() {

comment = **new** Comment();

}

@AfterEach

**public** **void** terminate() {

comment = **null**;

}

@Test //Un actor sin argumentos no contiene información

**void** inicialmenteEstaVacio() {

*assertEquals*(comment.getId(), **null**);

}

@Test //Tras insertar datos, el usuario contiene información

**void** contieneInformacion() {

User user = **new** User();

comment = **new** Comment(user, "1", "comment", 0); //Creamos un objeto de tipo comentario

*assertEquals*(**false**, comment.getUser() == **null**);

*assertEquals*(**false**, comment.getContentId() == **null**);

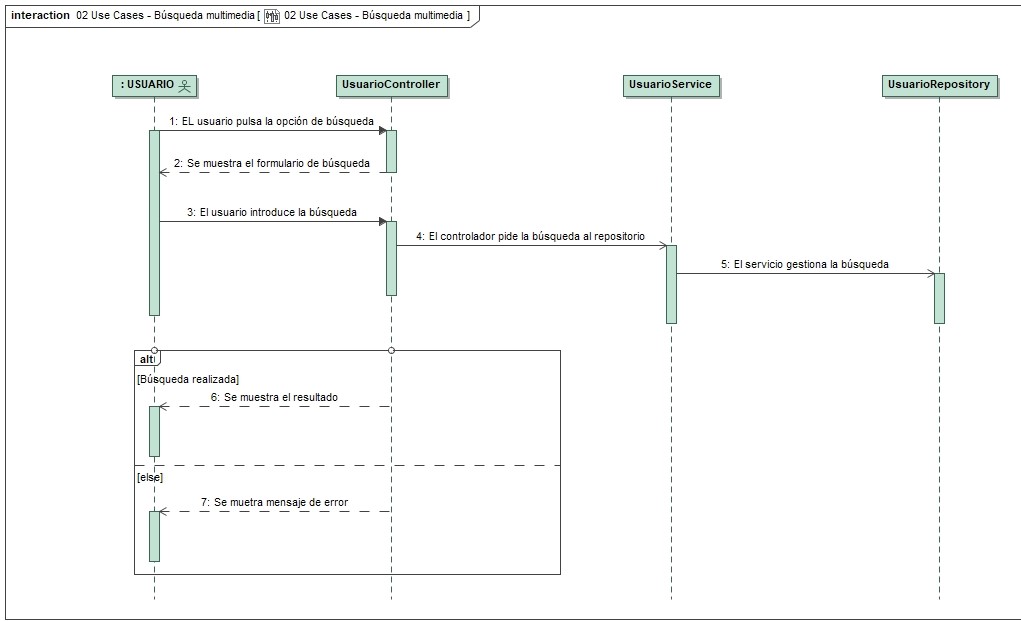
*assertEquals*(**false**, comment.getText() == **null**);

}

}

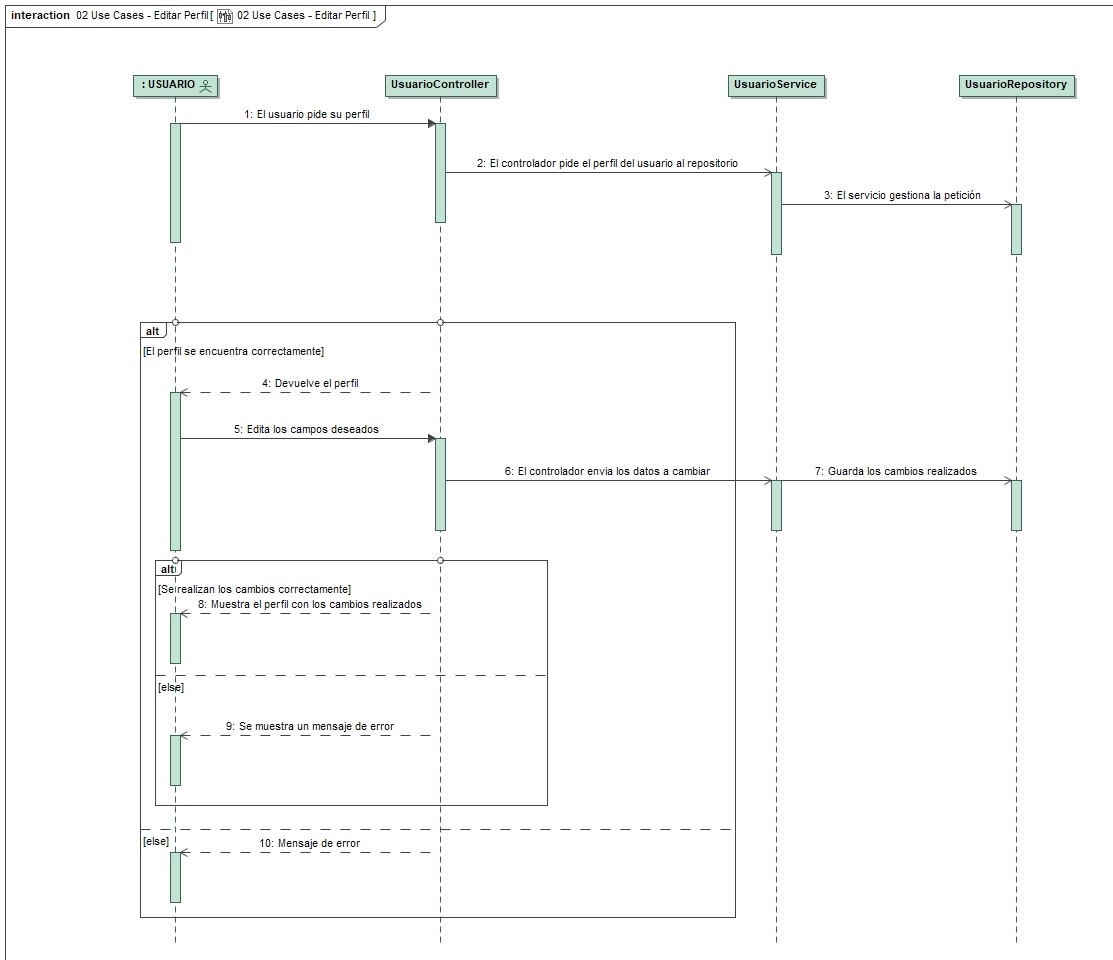
# 10. Diagramas de secuencia

## 10.1. Búsqueda multimedia



Este es el diagrama de secuencia de la búsqueda multimedia, el primer paso es que el usuario pulse la sección de búsqueda, a continuación, se mostrará el formulario de búsqueda, una vez introducida la búsqueda, el controlador pedirá la búsqueda al repositorio. Una vez realizado, el servicio gestionará la búsqueda. Si no se realizase la búsqueda con éxito se mostraría un mensaje de error.

## 10.2. Editar perfil



En este caso lo primero que se hará es pedir al controlador el su perfil, este, pedirá el perfil al repositorio, el servicio gestionará la petición. En el caso de que el perfil se encuentre se devolverá el perfil para editar los campos correspondientes y deseados, luego el controlador enviara los datos a cambiar y guardar los cambios ya realizados, en el caso de que no salga bien se mostrará un mensaje de error, tanto como cuando no se guardan los cambios como cuando no se encuentra el perfil.

## 10.3. Iniciar sesión

## 

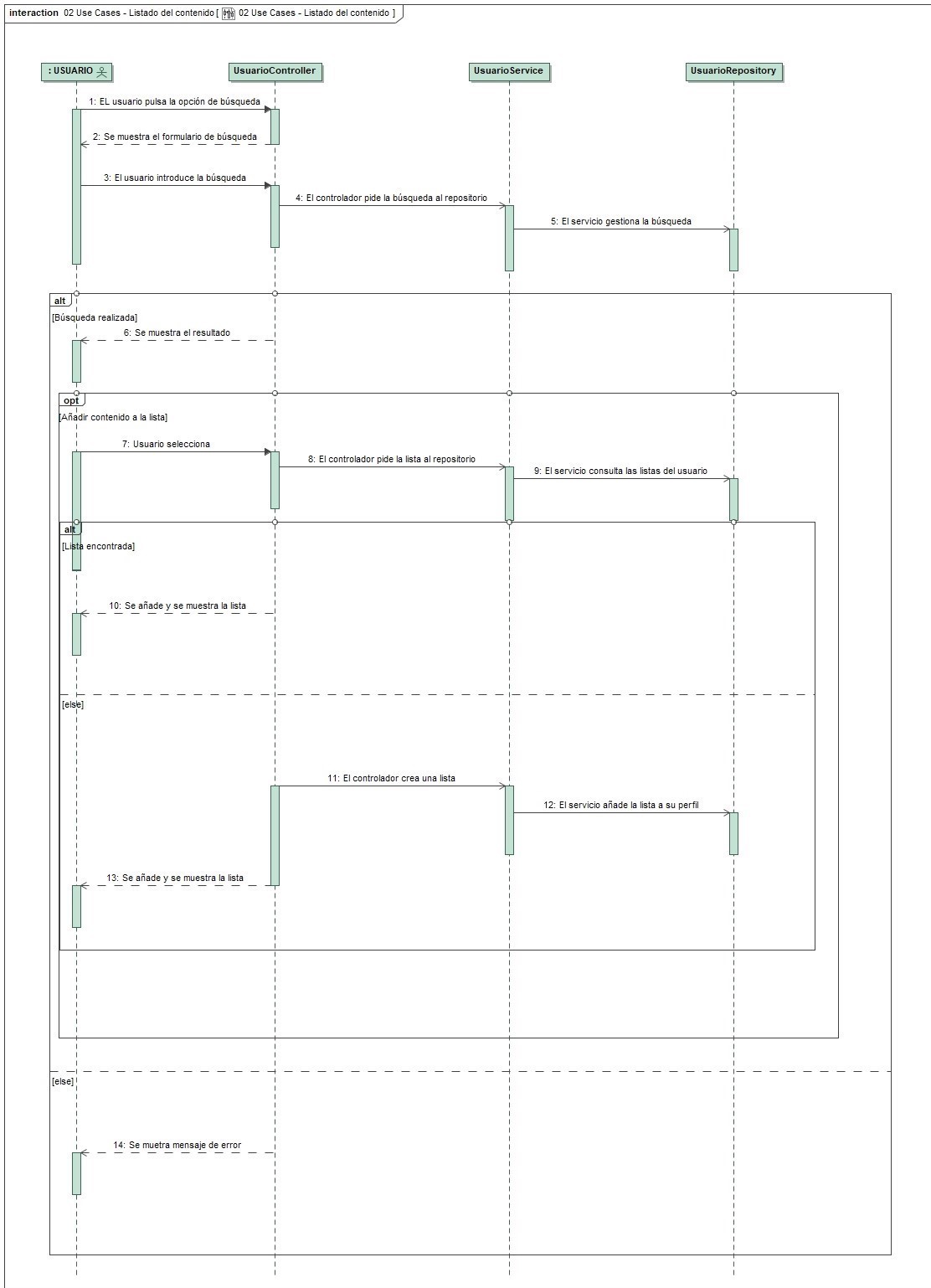
Primeramente, el usuario introduce sus datos en el formulario de inicio de sesión, seguidamente, el controlador pedirá el usuario al repositorio. El servicio consultará los datos del usuario, si no está bien se mostrará un error en el formulario.

## 10.4. Interactuar

## 

Lo primero de todo es que el usuario realice el formulario para buscar perfiles y que este se envíe al controlador. Una vez el controlador lo reciba este pedirá el perfil al repositorio y el servicio consultará los datos. En el caso de que el perfil exista se devolverá el perfil y se darán las opciones de visualizar, seguir y bloquear al perfil. En el caso de bloquear y seguir se mostrará un mensaje de éxito a los usuarios para saber que se ha bloqueado o seguido con éxito, si no, se mostrará un error.

## 10.5. Listado del contenido



Antes de poder listar habrá que realizar la búsqueda como ya hemos explicado anteriormente, una vez realizada con éxito el usuario podrá seleccionar el contenido y la opción de añadir a una lista, este escribirá el nombre de la lista, si esta existe se añadirá a la lista correspondiente, si no existe se creará primero y luego se añadirá. En el caso de que haya algún error se mostrará un mensaje correspondiente.

## 10.6. Registrarse

## 

El usuario pulsará la opción para registrarse, a continuación, se le enviará un formulario a rellenar con sus datos y credenciales, una vez realizado este se enviará al repositorio, pasando antes por el servicio, que lo creará y lo guardará. Si todo ha salido correctamente se mostrará el perfil ya creado, si no se mostrará un mensaje de error.

# 11. Herramientas Software

* Whatsapp
* Discord
* GitHub
* Trello
* Herramientas de Google (Drive, Documentos, etc.)
* VSCode
* Eclipse IDE
* SQL Developer
* Data Modeler
* Herramientas de Office 365 (Microsoft Word)
* MagicDraw

## 11.1. Enlace a GitHub

<https://github.com/marinasayago/Erole.git>