# 1   Introduction

The **Moviegram** application offers a search and information service in the field of cinema. When the application starts, the system requires authentication to use the service. The logged-in user can perform a search by entering the first characters of a movie title in the search bar, obtaining a list of 10 movies in the database. After that you can select one of the proposed titles or carry out a more in-depth search, adding characters. Selecting a row, the system allows you to view more information in the right section, including cover, title, director and ratings. The user can leave a mark from 1 to 5 for the selected movie. There is also a module for the system administrator: when he logs in, he's redirected to a different activity than the user's one. In this page, he can view some statistics linked to the movies and the searches carried out by the users of the application, such as the ranking of 10 most voted films or the 10 most sought after films. Moreover, the system admin can add new movies to the application database or delete those already present, by searching by title.



**Figure 1:** User Mockup

**Figure 2:** Admin Mockup

# 2  Analysis and workflow

## 2.1  Requirements

### 2.1.1  Functional requirement

The system has to allow the user to carry out basic functions such as:

- To sign up into the system.

- To login to the system.

- To search for a movie.

- To vote a movie.

- To view a list of the top rated movies, both in general and filtered by a selected country.

- To view a list of the top production houses.

- To view the top countries in making movies, filtered by a selected year.

- To view the most active users in the application, i.e. the users that have given most votes.

The system has to allow the administrator to carry out basic functions such as:

- To login to the system.

- To add a movie.

- To delete a movie.

### 2.1.2  Non-functional requirements

- Usability, ease of use and intuitiveness of the application by the user.

- Availability, with the service guaranteed h24, using replicas.

- The system should provide access to the database with a few seconds of latency.

- Eventual consistency.

## 2.3 Analysis of entities

This diagram represents the main entities of the application and the relations between them.
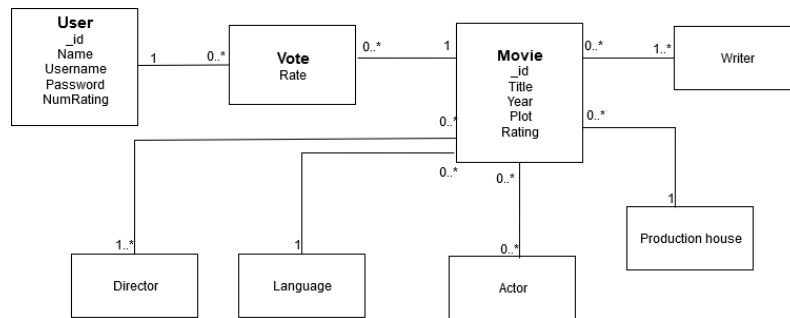


**Figure 4:** UML analysis diagram

# 5 User Manual

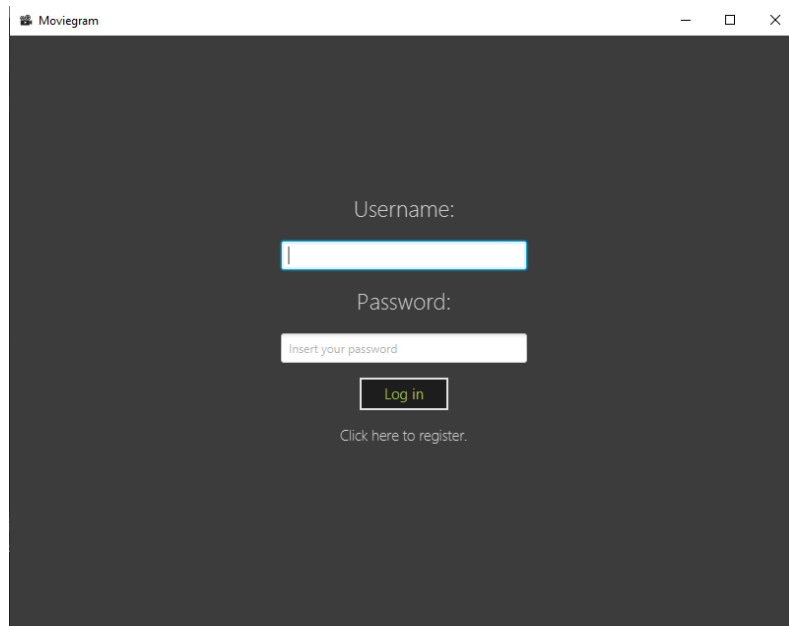When you first run the application, the interface you get is the login one, figure 13.



**Figure 13:** Login page.

In case you are not registered you can click the link at the bottom of the page to be redirected to a register page, figure 14, otherwise you can sign in the application and by default you get the interface shown in figure 15.
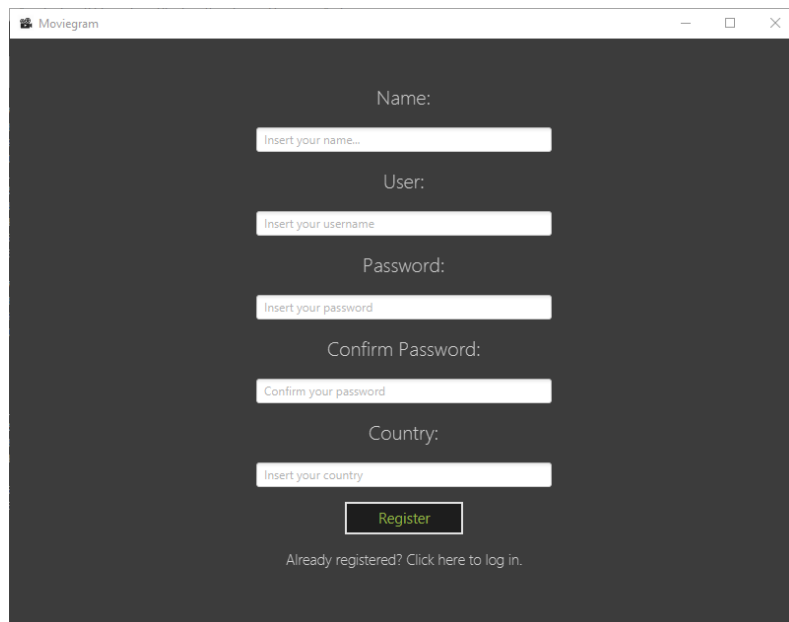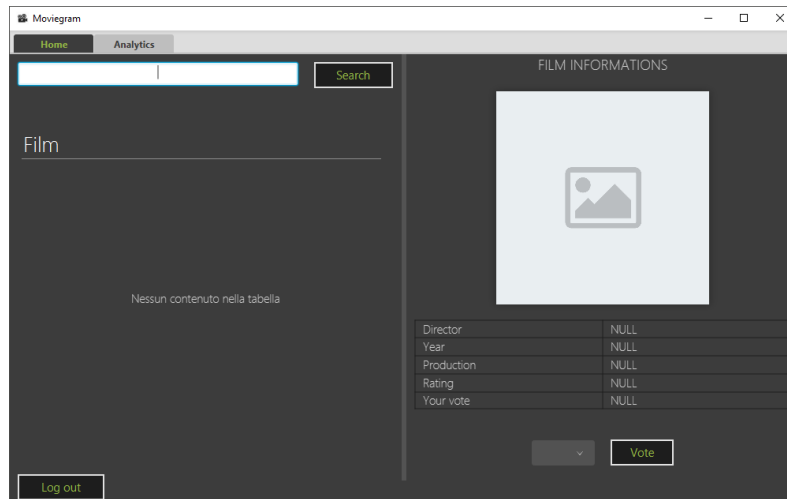


**Figure 14:** Register page.

**Figure 15:** Home page.

From here you can search for a film by typing in the relative field and clicking the search button. You'll get a list of films that contains the text entered in the table below. Now you can select a film from the table and all the informations will be shown in the right pane of the application, figure 16. In the bottom right you are able to add a vote from 1 to 10 for the selected film.
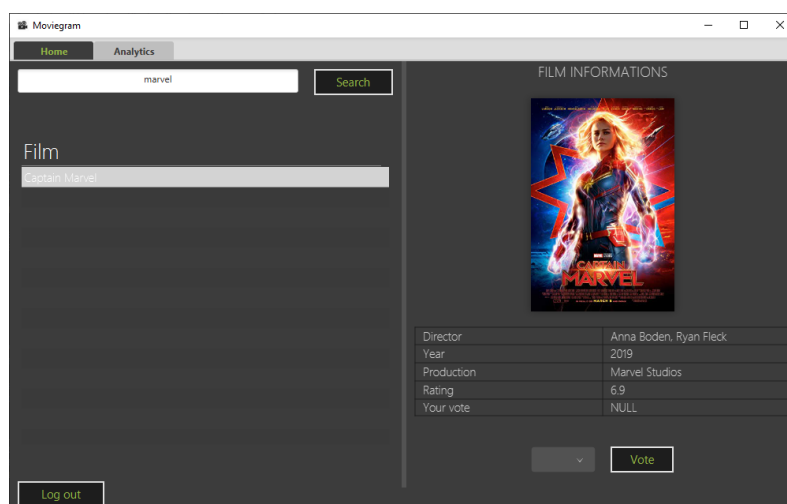


**Figure 16:** Searching and selecting a film.

In the top left of the page there are two tabs. by default after the login you are in the Home tab, by clicking the Analytics Tab you will see the following page.
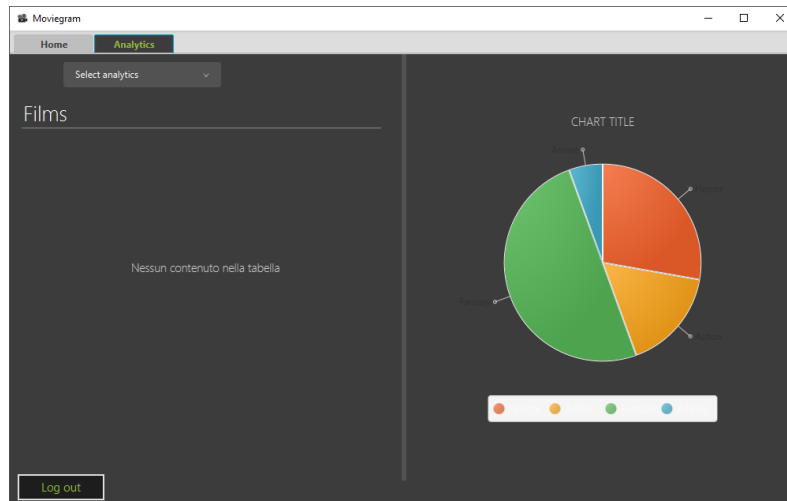
**Figure 17:** Analytics page.

Here you have a choice box (left) to select what kind of analytics you want to be performed from the existing ones, and another one to apply a filter (right). After selecting an analytics you will see the results in the table below, and for some of them you will get a piechart aswell, figure 18
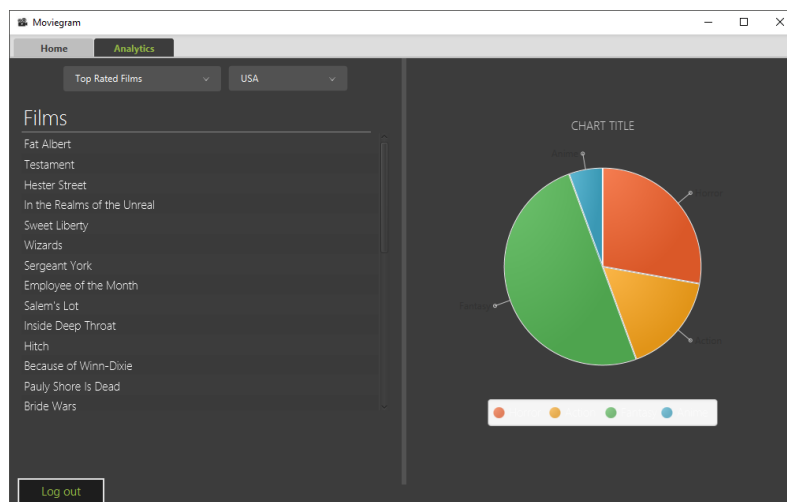


**Figure 18:** Performing an analytics.

To log out, just click on the appropriate button at the bottom.

## 5.1 Admin Manual

If you have an admin user, you are entitled to make changes on the film lists. You need to log in inserting your username and password, and the application will recognize you as the administrator and show up a third tab called "Admin", figure 19
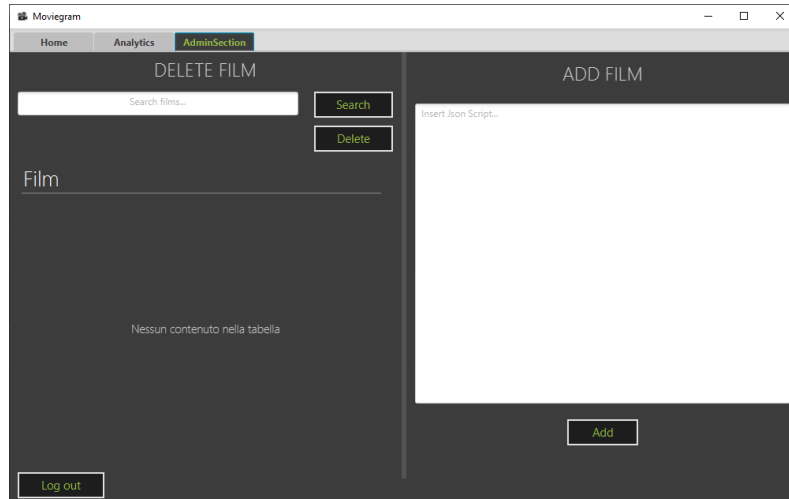


**Figure 19:** Adnim page.

In the Admin tab you can search for a film the same way the user did in the Home tab and after selecting one you are able to delete it by clicking the "Delete" button. On the right pane you are able to insert a json document in the text field, that represent a film in the database, and by clicking the Add button you will insert one or more films in the database (fig. 20).
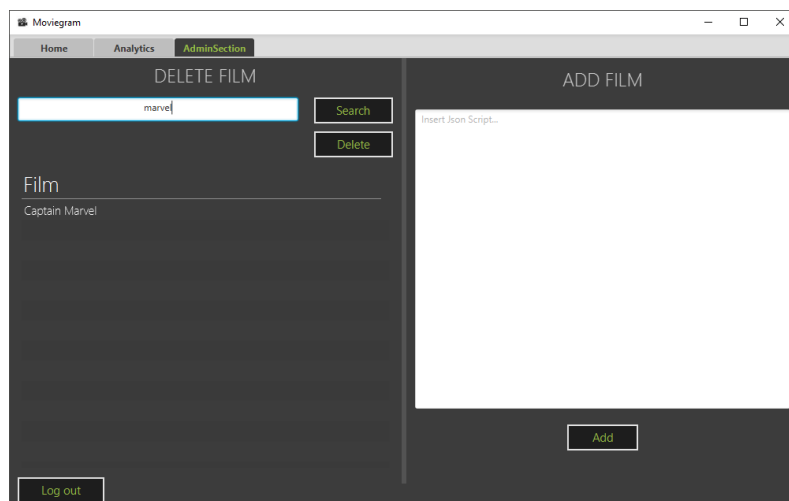


**Figure 20:** Admin page after searching for a film.