

Movie Rental System

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1. Introduction:

This Movie Rental System is a Django-based web application designed to provide users with the ability to browse, search, filter, and rent movies. The platform includes user authentication features, responsive design, and dynamic movie management using a JSON file for data storage. It supports search and filter options by title, genre, rating, and release year, with rental functionality ensuring that a movie can be rented by only one user at a time.

2. How to Execute the Project:

- Python Environment Setup: check If there is python is available in the system or not and the if it is not there please install python.
- Create virtual environment using `python -m venv venv` command.
- Activate it using:
- Install Django using: `pip install Django`
- Apply migrations using: `python manage.py migrate`
- And run server using: `python manage.py runserver`
- To see our database that was created use `python manage.py createsuperuser`

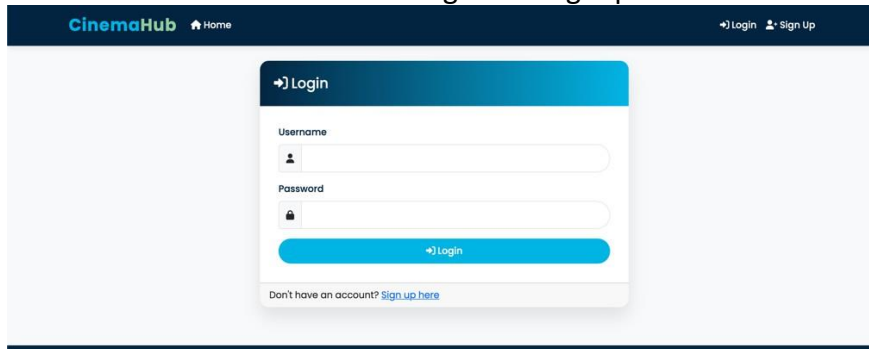
3. My Contribution:

- I was responsible for setting up the environment and creation of project and application.
- I was responsible for writing the JSON file
- I worked on the creation of basic structure required and the forms that link to the backend.
- We worked as a team to link the backend but there were some minor issues we faced during creation of models and views.
- I tested the models and the data in it using a free software called the [sqlviewerapp](#) with which I saw the structure and the data entered into it after creating the super user.

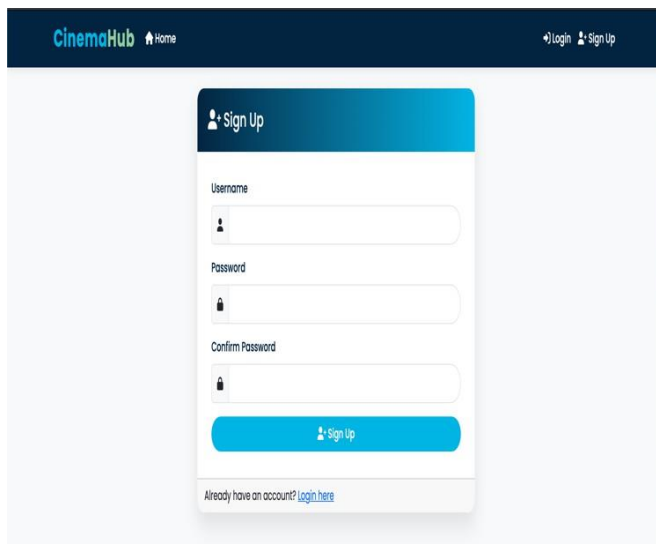
4. Execution (screenshots):

Below are successful execution screenshots for our project.

- FRONT-END UI Screenshots for Login and Signup:

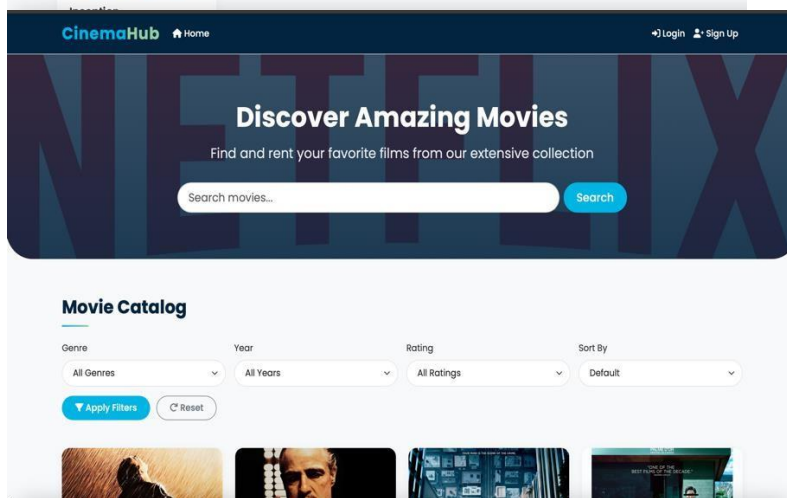


The screenshot shows the CinemaHub website's login interface. The header is dark blue with the CinemaHub logo and a home icon on the left, and 'Login' and 'Sign Up' links on the right. The main content area is light gray. A white login form is centered, featuring a blue header with a right-pointing arrow and the word 'Login'. It contains two input fields: 'Username' with a person icon and 'Password' with a lock icon. Below these is a blue 'Login' button with a right-pointing arrow. At the bottom of the form, it says 'Don't have an account? [Sign up here](#)'.

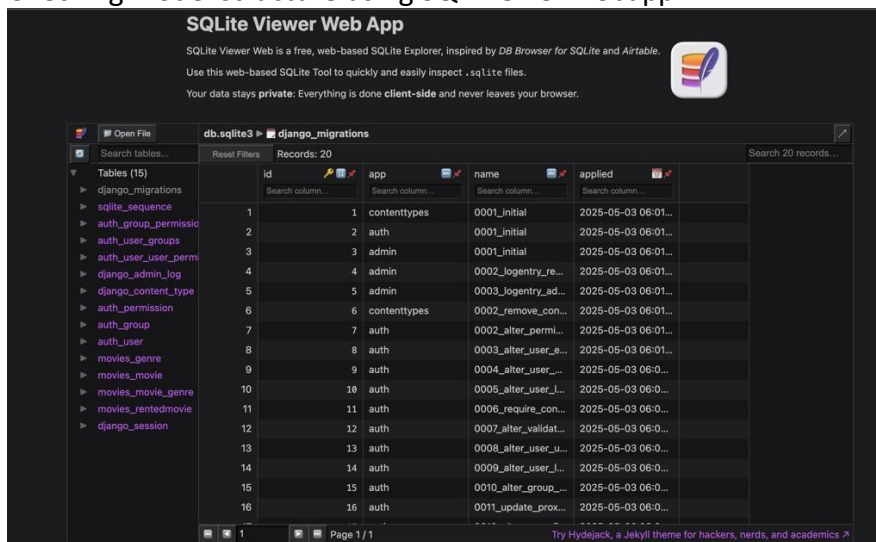


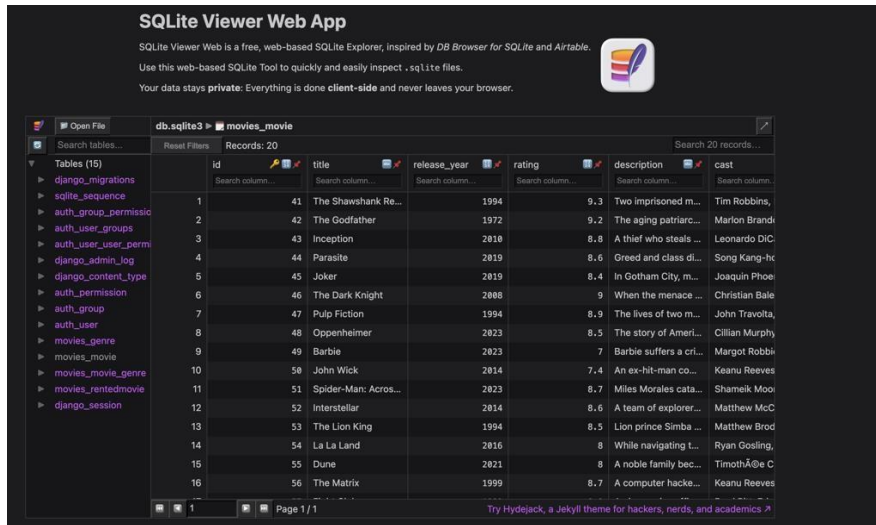
The screenshot shows the CinemaHub website's sign-up interface. The header is dark blue with the CinemaHub logo and a home icon on the left, and 'Login' and 'Sign Up' links on the right. The main content area is light gray. A white sign-up form is centered, featuring a blue header with a person icon and the words 'Sign Up'. It contains three input fields: 'Username' with a person icon, 'Password' with a lock icon, and 'Confirm Password' with a lock icon. Below these is a blue 'Sign Up' button with a person icon. At the bottom of the form, it says 'Already have an account? [login here](#)'.

- FRONT-END UI:



- Checking model structure using SQL viewer webapp:





5. Conclusion:

The Movie Rental System provides a fully functional platform for browsing and managing movie rentals using Django. My contributions focused on core user functionalities like search, filtering, rental logic, and project documentation. This ensured a smooth and user-friendly experience aligned with the project's technical and functional requirements.

6. References:

- Design using:
 - <https://getbootstrap.com/>
 - <https://www.w3schools.com/css/>
- Testing: <https://sqliteviewer.app/>
- Sample codes: <https://www.w3schools.com/django/>