

The project aimed to develop a web application that visualizes IMDb ratings, allowing users to filter movies by genre. The development process involved the following steps:

Setup and Environment Configuration: Initialized a Python virtual environment and installed necessary packages, including Flask for the web framework and D3.js for data visualization.

Data Collection and Preparation: Gathered IMDb movie data, ensuring it was clean and structured appropriately for visualization purposes.

Database Integration: Utilized SQLite to store the movie data, facilitating efficient querying based on user-selected genres.

Backend Development with Flask: Created routes to handle user requests, particularly for rendering the main page and fetching filtered movie data.

Frontend Development with HTML, CSS, and jQuery: Designed the user interface to display the visualization and implemented interactive elements for genre selection.

Data Visualization with D3.js: Developed dynamic visualizations to represent IMDb ratings, updating in response to user interactions.