MOVIE MANAGEMENT SYSTEM

Project Presentation link:

https://drive.google.com/drive/folders/1tMQRB7GSuhexAcTKaqE1QdLE6wkGcKM9?usp=sharing

Project Overview:

The Movie Management System is a comprehensive web application designed to manage movies efficiently. This application fetches the movies having the format (.mp4,.mkv and .avi), fetches the rating and other details from IMDB and helps the user enhance their experience. It allows users to view, search, and update movie records. It also allows the user to open movies directly from the application. This project showcases the integration of various technologies and highlights the following core features:

- User-friendly interface with a responsive sidebar menu.
- Ability to search movies based on different attributes.
- Database update functionality.
- Detailed views of individual movie records.

Objectives:

The primary objectives of the Movie Management System are:

- Efficient Movie Management: To provide a platform for storing and retrieving detailed movie information from IMDB database efficiently.
- User-Friendly Interface: To create an intuitive and responsive user interface that simplifies navigation and usage.
- Advanced Search Capabilities: To implement robust search functionalities allowing users to filter movies based on various attributes.
- Database Update Mechanism: To enable users to update the movie database with new entries seamlessly.
- Enhanced User Experience: To ensure a visually appealing design that enhances the overall user experience.

Overall System Design:

The system design encompasses the following components:

➔ Frontend:

- HTML - The HTML file structures the content and layout of the web pages, incorporating elements such as navigation menus, tables, and forms. There are two types of users: regular users and librarians.
- CSS - The CSS file ensures the visual styling of the web pages, providing a consistent and modern look and feel. Key features include a responsive sidebar, navigation links, and a centered image container.

➔ Backend:

- Python: The Python script handles the backend logic, including routing, database interactions, and processing user inputs. It utilizes frameworks like Flask for web development and integrates various functionalities for managing the movie database.

➔ Database:

- The system employs a database to store and manage movie details. The backend scripts interact with this database to fetch, update, and delete movie records as required.
- Compatible with MySQL, SQLite and any other major database storing applications.

Technologies Used:

- Frontend Technologies:
  - HTML5: For structuring web page content.
  - CSS3: For styling and enhancing the visual presentation of the web application.
  - Google Fonts: For incorporating custom fonts to improve readability and aesthetics.

- Backend Technologies:
  - Python: The core programming language used for backend development.
  - Flask: A micro web framework for building the web application.
  - SQLite/MySQL: For database management and storage.
- Additional Tools:
  - JavaScript: For client-side scripting and enhancing interactivity.
  - Jinja2: Templating engine for rendering dynamic content on the web pages.

Conclusion:

The Movie Management System project demonstrates a successful integration of modern web technologies to create a functional and user-friendly application. It effectively meets the objectives of efficient movie management, advanced search capabilities, and an enhanced user experience. This project showcases a comprehensive understanding of both frontend and backend development, highlighting the ability to design and implement a robust web application from scratch.

This system not only serves as a practical tool for managing movie databases but also reflects the technical proficiency and attention to detail required to build scalable and maintainable web applications.