**Project Overview: Movie Library**

**Objective:** To create a platform that allows users to search, store and manage their favorite movies and TV shows.

**MODULES**

* User authentication and registration module
* Movie/TV show search and filter module(API integration (IMDb, The Movie Database (TMDb))
* Movie/TV show details module
* User ratings and reviews module
* Recommendation system module
* Data storage module (using MySQL with Sequelize)
* Movie of the day module
* Movie Discussion module

**Milestones:**

* Setting up the development environment and project structure
* Implementing user authentication and registration
* Integrating movie/TV show search and filter functionality
* Adding movie/TV show details page and user management functionality
* Implementing recommendation system
* Finalizing the project with bug fixing and performance optimization

**Existing System and Disadvantages**

One of the similar existing system related to the movie library project is IMDb(Internet Movie Database) which is a widely used database for movie and TV show information,but it has some disadvantages such as :-

* Lack of movie discussion feature :IMDb does not provide a platform for users to discuss movies with each other, such as a discussion page. The Movie Library project will provide a platform for users to discuss movies, which can improve the overall user experience.
* Lack of independent movie Submission: Anyone can submit an entry of a project to IMDB, but just because you submit it, it doesn't guarantee it will be posted. Your entry will have to be approved by the IMDB team. Movie library will provide an open environment to its user to add their creation to the library with ease which will be a great help to the *indie,student,freelancer* film-makers.
* Lack of data Accuracy: The accuracy of the information on IMDb can be limited, as it is dependent on user contributions. The Movie Library project can use APIs from multiple sources, such as The Movie Database (TMDb), to improve the accuracy of the information displayed.

**Proposed System and Advantages**

A robust and user-friendly movie library platform that enhances the movie and TV show viewing experience by providing a centralized location to store, manage,discuss and access information about favorite titles.

**Features:**

* User registration and authentication
* Search and filter options to find movies/TV shows by title, genre, year, etc.
* Movie/TV show details page with information such as cast, crew, plot, rating, etc.
* Ability to add, edit, and delete movies/TV shows from the library
* Option to keep track of watched movies/TV shows and take notes
* User ratings and reviews
* Recommendation system based on user preferences and past viewing history
* Movie discussion feature.

**Technologies:**

* Front-end: HTML, CSS, JavaScript, ReactJS
* Back-end: Node.js, Express, MySQL,Sequelize
* API: IMDb, The Movie Database (TMDb),

**Advantages:**

* Improved Data Accuracy : The accuracy of the information on IMDb can be limited, as it is dependent on user contributions. The Movie Library project can use APIs from multiple sources, such as The Movie Database (TMDb), to improve the accuracy of the information displayed.
* Movie Discussion Feature : The Movie Library project will provide a platform for users to discuss movie titles, which can improve the overall user experience.
* User Title Submission : Movie library will provide an open environment to its user to add their creation to the library with ease in a wiki-style format which will be a great help to the *indie,student,freelancer* film-makers.