

MovieMate Project Documentation

1. Project Overview

MovieMate is a modern web application designed for movie and TV show enthusiasts to track, manage, and review their personal collection. It allows users to add, track, and sort movies/TV shows, manage watchlists, rate content, and leave reviews, all within a user-friendly and responsive interface. The application demonstrates full-stack development using ReactJS and Python backend frameworks.

2. Key Features

1. Add Movies/TV Shows: Users can add movies or TV shows with Title, Director, Genre, Platform (Netflix, Prime Video, Disney+, HBO, Other), and Status (Watching, Completed, Wishlist).
2. Track TV Show Progress: Monitor progress for TV shows, including episodes watched.
3. Rate & Review Content: Users can give ratings (1-5 stars) and write reviews.
4. Filter & Sort Movies/Shows: Filter by Genre, Platform, or Status and sort alphabetically by Title.
5. Search Functionality: Search movies or TV shows by name and vi

3. Technical Requirements

Frontend:

- ReactJS for interactive UI components and routing.
- Bootstrap / Custom CSS for responsive layout, badges, and hover effects.

- Forms for adding/updating movies and reviews.

Backend:

- Python Framework: Django / Flask / FastAPI.
- REST APIs for managing movies, users, and reviews.
- Token-based authentication.
- CRUD operations for movies and reviews.

Database:

- SQLite (development) or PostgreSQL (production).
- Stores users, movies, and reviews with proper relationships.

4. Database Schema

Users Table

Fields	Type	Description
id	Integer	Primary key
username	String	Unique user identifier
Password	String	Hashed password
email	String	Optional

Movie Table

Field	Type	Description
id	Integer	Primary Key
title	String	Movie/TV show title
director	String	Director/creator
genre	String	Genre
platform	String	Streaming platform
status	String	Watching/ Completed / Wishlist

Review Table

Field	Type	Description
Id	Integer	Primary key
movie_id	Integer	Foreignkey→Movies table
user	String	Reviewer's username
rating	Integer	1–5 stars
comment	Text	Review text

6. Future Enhancements

- User Profiles: Show all movies and reviews added by each user.
- Movie Posters: Upload and display images for richer UI.
- Average Ratings: Aggregate rating displayed on movie cards.
- Real-time Search Suggestions: Improve search experience.
- Dark/Light Theme Toggle for user preferences.
- Social Features: Commenting, liking, and sharing reviews.

7. Conclusion

MovieMate provides a complete platform for managing movies and TV shows, offering:

- Interactive, modern frontend using ReactJS.
- Robust backend with Python frameworks.
- Persistent database storage.
- Full functionality: add, track, review, filter, and sort content.

It demonstrates modern full-stack development, user-centric design, and has ample room for future growth and enhancements.