

October 12, 2024

WDD330 Final project proposal Movies Recommendations Web Application

Overview:

- **What is the problem we are trying to solve?**

Many people struggle to find new movies to watch, especially those that match their personal preferences. There are countless streaming platforms, but none are fully tailored to provide personalized recommendations based on specific genres or user input. This app will make movie discovery easier and more enjoyable.

- **Why are we doing this?**

I love watching movies, and I know many others share the same passion. Finding new movies that align with personal taste is often difficult, and this app will simplify that process by offering recommendations based on genres that users already love. It will help users discover new films they may not have come across otherwise.

- **Who is the audience?**

The target audience includes movie enthusiasts who enjoy exploring films across various genres, individuals who want personalized recommendations, and anyone looking for their next great movie to watch. This could range from casual viewers to cinephiles and people looking for movie suggestions for a family night or a weekend binge.

- **Major functions of the application:**

1. **Movie Search:** Users can input a movie name to retrieve detailed information such as title, plot, rating, and genre.
2. **Genre Selection:** Users can select their favorite genres to receive personalized movie recommendations.
3. **Recommendations:** Based on the selected genres, the app will recommend movies that align with the user's preferences.
4. **Movie Details:** Display information like title, description, rating, and a poster for each movie.
5. **Error Handling:** Notify users if there are errors while fetching movie data, such as invalid movie names or network issues.

6. **User Favorites:** Users can save movies to a favorites list for easy access later. This will allow them to revisit and watch movies they enjoyed or want to watch again.
7. **Trending Movies:** Display a list of trending or popular movies, providing users with recommendations based on global or regional popularity.
8. **Watchlist:** Users can create a personalized watchlist to keep track of movies they plan to watch in the future. This watchlist will be saved locally for easy access.

Wireframes:

- **Mobile View:**

I will attach separate mobile wireframes that show the layout for searching movies, viewing movie details, and receiving recommendations.

- **Desktop View:**

Similarly, I will attach desktop wireframes showing the app's structure optimized for larger screens.

Data Sources:

- **External API:**

I will use the **OMDB or TMDB API**

(https://api.themoviedb.org/3/movie/{movie_id}/recommendations) to retrieve movie data. This API will provide essential details such as movie titles, descriptions, genres, ratings, and posters.

- **Local Storage:**

The app may store recent searches or favorited genres in local storage to provide a seamless user experience on returning to the app.

Initial Module List:

1. **User Interface Components:**

- HTML/CSS for designing the layout of the app.

2. **API Integration (OMDB API):**

- JavaScript to retrieve data from the OMDB API based on user input (e.g., search or genre selection).

3. **Recommendation Engine:**

- JavaScript logic to recommend movies based on user-selected genres.

4. **Movie Details Display:**

- Dynamic JavaScript rendering of movie information like title, rating, and poster.

5. **Error Handling Module:**

- Notify users when there are issues with the API, like invalid movie searches or network errors.

6. **Animations:**

- Incorporate animations to enhance user experience, like loading spinners during API fetches or transitions between screens.

Colors/Typography:

- **Color Palette:**

I will use the following color palette:

- **Primary Colors:** Black (#000000), Barn Red (#780000), White (#FFFFFF)
- **Accent Color:** Orange (#F39C12)

This will provide a clean, visually appealing, and modern look.

- **Typography:**

- **Body Font:** 'Roboto', sans-serif
- **Headings:** 'Playfair Display', serif

These fonts will create a balanced look with both modern and classic elements.

Element Styling:

- The design will follow a **minimalist approach** with a focus on ease of use.

- Key elements like buttons, input fields, and movie cards will be styled with clear, sharp edges, and the colors will enhance usability without overwhelming the user.

Work Schedule:

Week	Mon	Tue	Wed	Thu	Fri	Sat
05	API Setup	UI Design	Search/Fetch	Recommendation	Error Handling	Review
06	Finalize	Testing	Debugging	Polish UI	Animation	Final Testing
07	Submit	Review	Rework if needed			

Link to Trello Board:

I have created a detailed Trello board to track all tasks related to the development of my movie recommendation app. Here is the link to my board:

[Trello Board Link](https://trello.com/b/eQza59Vx/wdd330-final-project-proposal-movies-recommendations-web-application)

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