WDD330 Final Project Proposal – Movie Application

Overview:

- What is the problem we are trying to solve?
    - Many people struggle to find movies tailored to their preferences, wasting time scrolling through streaming platforms. This app will streamline movie selection by offering personalized recommendations based on users' tastes.
- Why are we doing this?
    - To provide an easy-to-use platform that simplifies the decision-making process and helps users find movies they'll love, based on specific filters like genre, rating, or cast. The project will also allow for experience with integrating APIs, animation, and modular design.
- Who is the audience?
    - Movie lovers who want personalized movie recommendations based on their specific preferences. This app can be used by casual viewers and cinephiles who want a more curated experience than what's offered by generic streaming platforms.
- Major functions of the application:
    - **Movie Search**:
      Users can search for specific movies by title, genre, director, or actor. The app will retrieve movie details (title, release year, genre, director, cast, rating, plot, runtime) using an external API (TMDB or OMDB).
    - **Personalized Recommendations**:
      Users can set preferences (favorite genres, directors, etc.) to receive movie suggestions tailored to their tastes. The app will suggest movies based on user inputs and viewing history.
    - **Filters**:
      The app will allow filtering by genre, rating, release date, runtime, and more, so users can refine their movie recommendations.
    - **Movie Details Page**:
      Clicking on a movie from the recommendations will show detailed information about the movie, including user reviews, trailers, and box office performance.
    - **Watchlist**:
      Users can add movies to a watchlist for future viewing. This feature will dynamically generate content based on user interaction.
- Wireframes
    - **Home Page**: Search bar, user preferences, and recommended movies.
    - **Movie Details Page**: Display all movie info (plot, genre, rating, cast, etc.) with options to add to the watchlist.
    - **Watchlist Page**: Displays a list of movies the user has saved.
- Data Sources
    - I will use **TMDB (The Movie Database API)** or **OMDB (Open Movie Database API)**. These APIs provide detailed movie data, including the attributes required for this project (title, genre, cast, director, rating, plot, etc.).

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- Initial Module List:

  - **API Module**:
    Handles API requests (searching movies, retrieving recommendations, etc.).
  - **Movie Card Module**:
    Responsible for dynamically generating movie cards with details (used in the home page and watchlist).
  - **Movie Detail Module**:
    Handles the display of detailed movie information.
  - **User Preferences Module**:
    Allows users to input preferences for personalized recommendations.
  - **Animation Module**:
    Adds smooth transitions and hover effects for dynamic interaction.

  Colors/Typography
  - **Primary Color**: Dark blue/black for a cinematic feel.
  - **Secondary Color**: Accent colors like gold or red for highlighting.
  - **Typography**: Modern, bold fonts for movie titles; easy-to-read fonts for movie details.
- Element Styling:
  - Rounded corners for movie cards, hover effects on buttons, and smooth transitions between pages.
- Conclusion:
  - This web application aims to check weather conditions for various reasons such as planning outdoor activities, travel, or daily routines. However, accessing accurate and up-to-date weather information can sometimes be inconvenient or complex. The combination of dynamic functionality, clean design will ensure a seamless and enjoyable user experience.
- Link to Trello board
  - https://trello.com/c/9RJIwFt6
- Work schedule:

Week	Mon	Tue	Wed	Thu	Fri	Sat
05	HTML	CSS	JavaScript	Functions	Methods	Update Trello
06	Finalize Update Trello	Test Update Trello	Turn in final project	Rework if needed		
07						

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