

Project Report

MovieMind

1. Introduction

MovieMind is a dynamic movie recommendation website designed to help users discover and explore movies and TV series based on their preferences. The platform provides an interactive user interface with features like search functionality, category filtering, and detailed information about each title, including ratings, genres, and release dates. The website is built using HTML, CSS, and JavaScript, with a JSON-based database for storing movie details.

2. Objectives

- To create an intuitive and visually appealing movie recommendation platform.
- To allow users to browse movies and series by categories (Movies, Series, Kids).
- To implement a search feature for quick access to desired content.
- To provide detailed information about each movie/series, including IMDB ratings, trailers, and posters.
- To ensure a responsive design for seamless viewing across different devices.

3. Technologies Used

- **Frontend:** HTML, CSS, JavaScript
- **Styling:** Bootstrap Icons for icons, Google Fonts (Poppins) for typography
- **Data Handling:** JSON for storing movie details
- **Responsive Design:** Media queries for adaptability across devices

4. Features

4.1 Dynamic Content Loading

- Movies and series are loaded from a JSON file (movie.json) and displayed dynamically.
- Each card includes:
 - Poster image
 - Title
 - Genre
 - Release date
 - IMDb rating

4.2 Search Functionality

- Users can search for movies or series by typing in the search bar.
- Results are filtered and displayed in real-time.
- The search dropdown disappears when the input is empty.



4.3 Category Filtering

- Users can filter content by:
 - **Series**
 - **Movies**
 - **Kids**

4.4 Interactive UI Elements

- **Scrollable Cards:** Users can scroll horizontally to browse content.
- **Navigation Buttons:** Left and right arrows for easy navigation.
- **Play/Pause Button:** Controls the trailer playback.

4.5 Detailed Movie Pages

- Each movie/series has a dedicated page (theboys.html, spiderman.html, moana.html) with:
 - A trailer (autoplay muted)
 - Title, genre, release date, and IMDb rating
 - A "Watch" button to play/pause the trailer

5. Implementation Details

5.1 HTML Structure

- index.html: Main page with featured content and navigation.
- theboys.html, spiderman.html, moana.html: Individual movie pages.
- movie.json: Contains movie data (name, IMDb rating, genre, poster URLs, etc.).

5.2 CSS Styling

- Responsive design with media queries.
- Smooth animations for hover effects on cards.
- Custom scrollbar styling for the search dropdown.

5.3 JavaScript Functionality

- app.js handles:
 - Fetching and displaying movie data.
 - Search functionality.
 - Category filtering (Movies, Series, Kids).
 - Scroll controls for the card carousel.
 - Play/Pause functionality for trailers.

6. Challenges Faced



1. **Dynamic Content Loading:** Ensuring smooth loading and rendering of JSON data.
2. **Search Filtering:** Implementing real-time filtering without page reload.
3. **Responsive Design:** Adapting the UI for different screen sizes.
4. **Trailer Playback:** Managing autoplay and mute settings for videos.

7. Future Enhancements

- **User Authentication:** Allow users to create accounts and save favourites.
- **Ratings & Reviews:** Enable users to rate and review movies.
- **More Categories:** Add genres like Horror, Comedy, etc.
- **Download Option:** Allow offline viewing (if legally permissible).

8. Conclusion

MovieMind successfully delivers an engaging and user-friendly platform for discovering movies and TV series. The project demonstrates proficiency in front-end development, dynamic content rendering, and responsive design. Future updates can further enhance functionality and user experience.

9. References

- Bootstrap Icons: <https://icons.getbootstrap.com/>
- Google Fonts (Poppins): <https://fonts.google.com/>

Submitted by:

[Sukesh]

[B. TECH CSE (AI & ML)]

[School of Engineering and Technology]



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