

Project :

Project Title : Movies Review and Rating Platform

Project Name : Movies Reviews Wep App(MovieSpec)

Name : Lakshit Giri Goswami

College : B.T.K.I.T Dwarahat (Almora, Uttarakhand)

Department : C.S.E

Problem Statement :

- Movie enthusiasts wants a space to discover , rate and review films .
- This Platform shows movie info and allows user to rate and comment .
- It fosters engagement and helps users decide what to watch .

File Components :

1. index.html

2. index.js - Overview

3. page.js - Overview

4. backend.js - Firebase
Setup

5. index.css - Layout

6. page.css - Detail
Layout

7. System Architecture

8. Data Flow

9. Features

10. Testing & Results

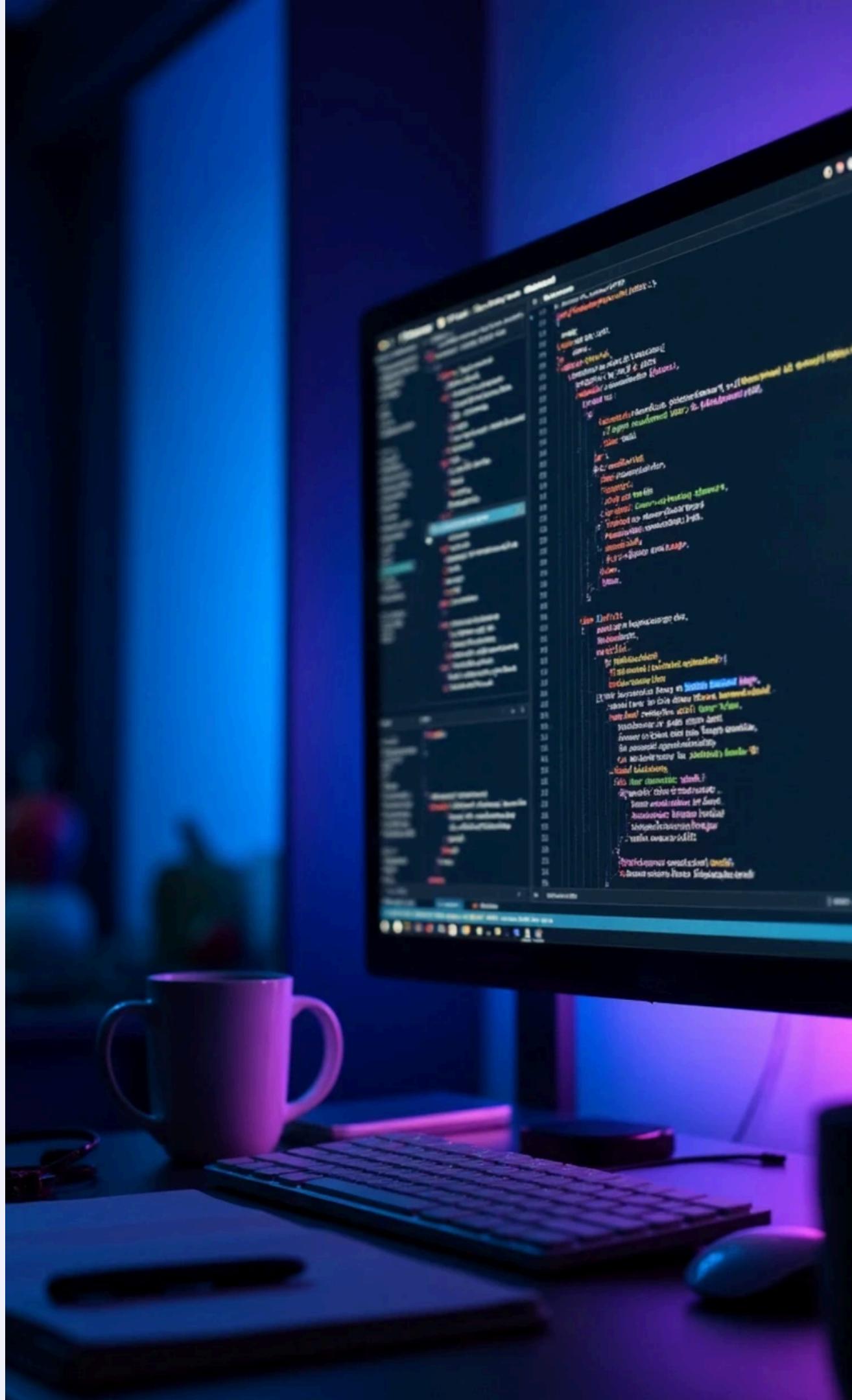
11. Conclusion

index.html - Overview :

- Contains basic structure of header .
- Handles html for both movie description page and movie records page .

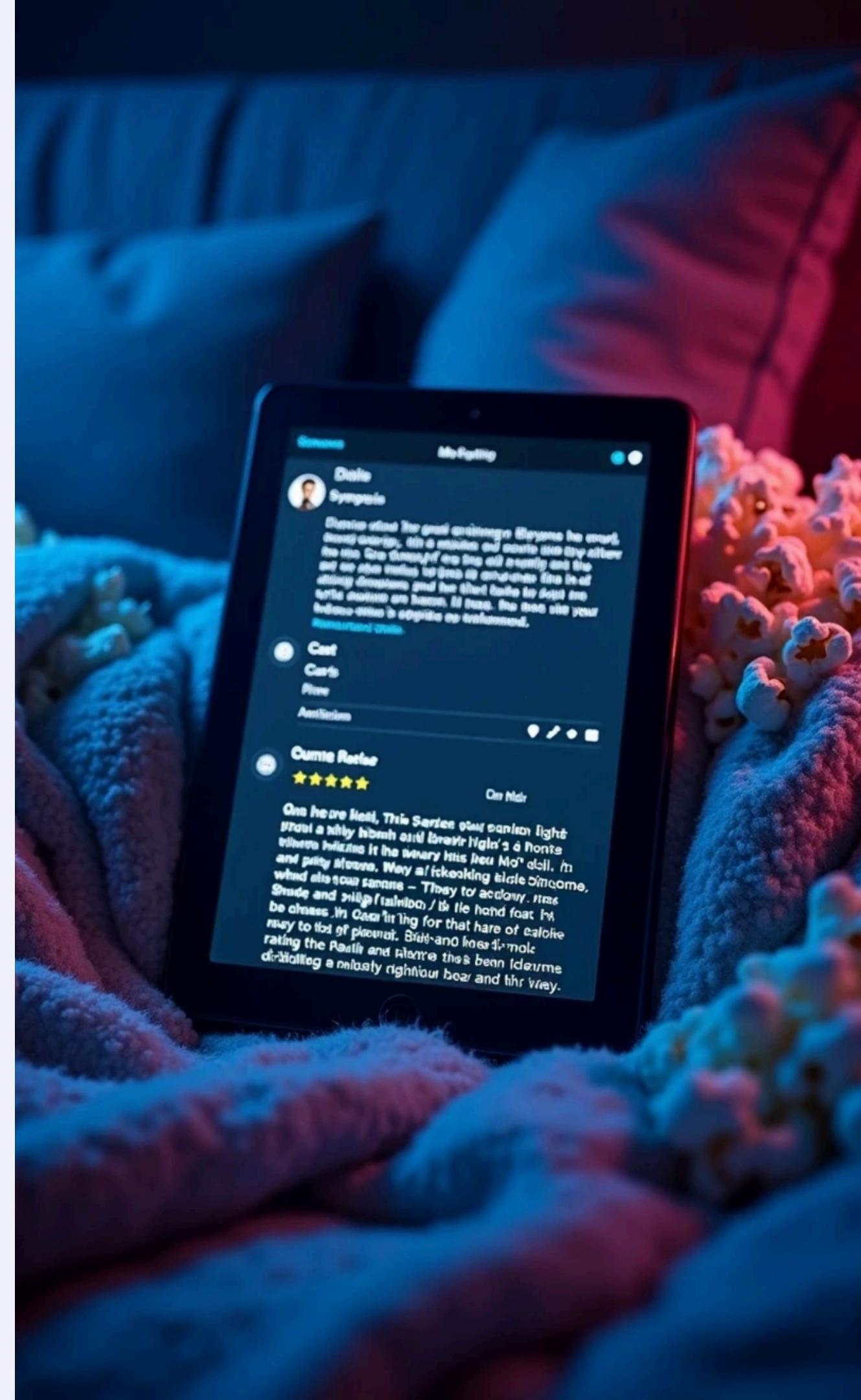
index.js - Overview

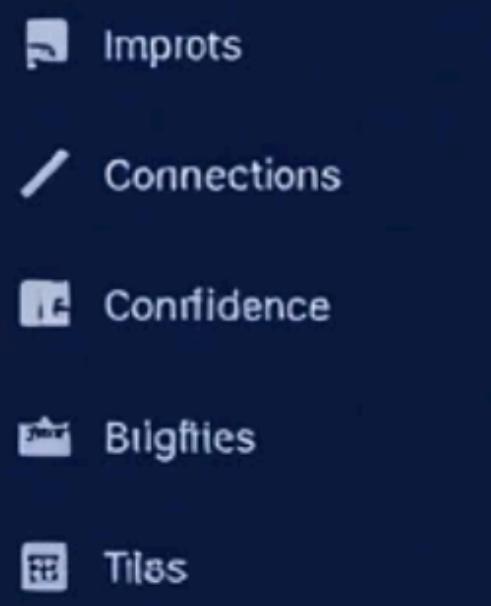
- Main script controlling movie fetching, navigation, and rendering.
- Dynamically generates movie cards with poster, title, rating, and More button.
- Implements Previous/Next navigation, caching movies in localStorage.
- Maintains history with pushState and popstate for back/forward navigation.



page.js - Overview :

- Handles individual movie detail view, fetching extra info from API.
- Displays release date, runtime, languages, production companies, revenue, and popularity.
- Includes user reviews powered by Firebase Firestore and Auth.





User Authentication

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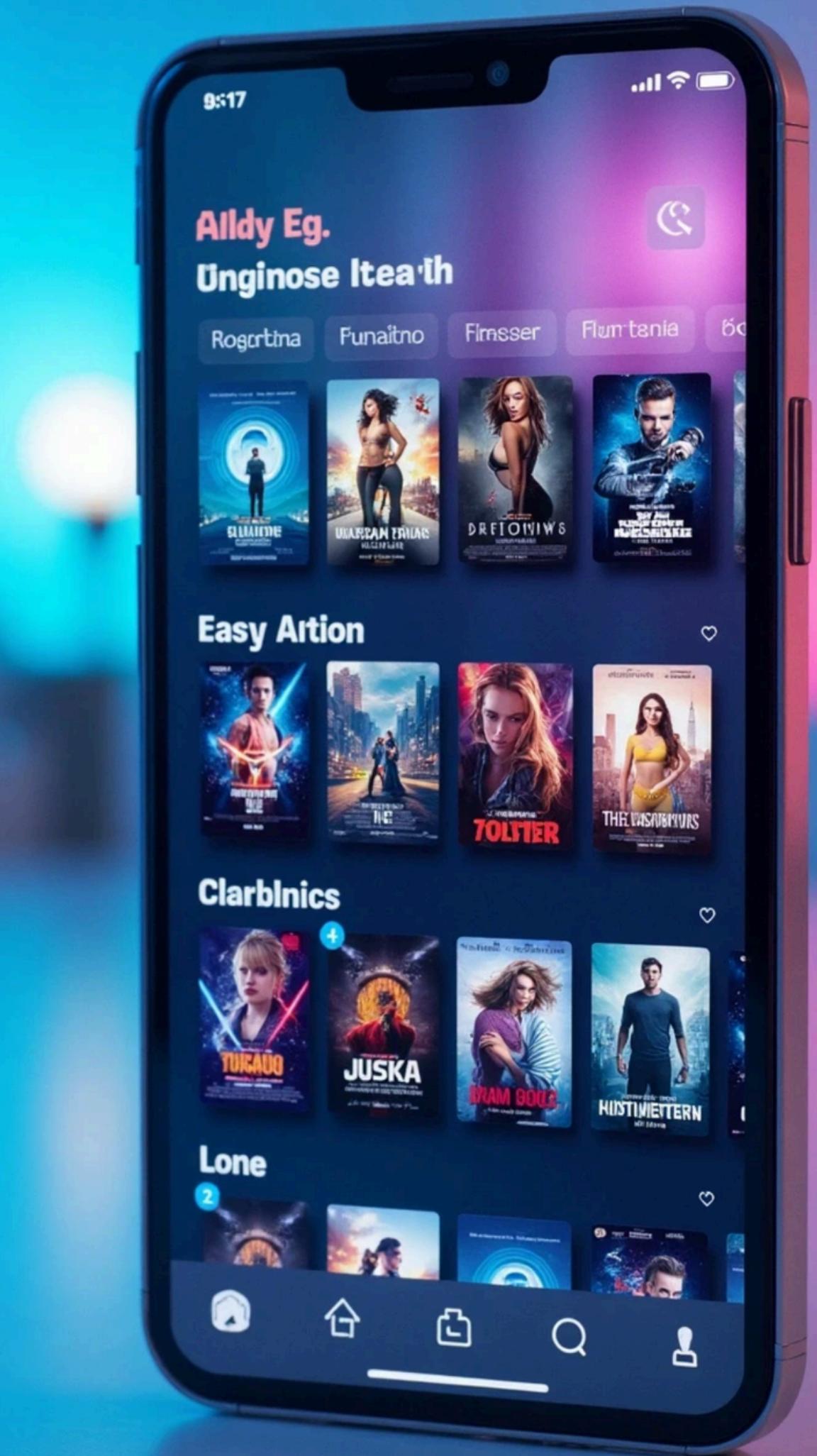
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backend.js - Firebase Setup :

- Configures Firebase app, Firestore DB, and Authentication.
- Ensures anonymous login for users to comment without registration.
- Functions for add, update, delete, and fetch comments.

index.css - Layout :

- Grid system for movie cards, responsive design for mobile and desktop.
- Hover effects, shadows, scaling animations, and rating highlights.
- Custom styled buttons for Previous/Next navigation.





page.css - Detail Layout :

- Full-page layout for movie details with poster, overview, and metadata grid.
- Hover scaling on poster, interactive star ratings for reviews.
- Styled comment section with rating stars, actions (edit/delete).

System Architecture

Frontend (HTML/CSS/JS) + API (TMDB) + Backend (Firebase).



A photograph of a person's hands typing on a laptop keyboard. The laptop screen displays code in a code editor. In the background, there is a lamp with a warm glow and a bookshelf filled with books.

Data Flow

- User → index.js (fetch movies) → TMDB API → Rendered UI.
- User → Comments → Firebase Firestore.

Features

- Movie discovery, ratings, detailed info, reviews, navigation, responsive UI.





Testing & Results

- Tested for responsiveness, data caching, Firebase operations, API fetch accuracy.



Conclusion

- Complete movie exploration platform integrating TMDB API with Firebase backend.