INTERNSHIP PROJECT REPORT: REACT MOVIE APP

Intern Details:
Name: Santhiya. M

Internship: Front-end

Company: NullClass

Duration: July 1, 2025 – August 1, 2025

Project Title: Movie App using React and TMDb API

Project Objective
To build a dynamic and responsive movie search web application using React.js that allows users to search for movies, preview trailers, and manage a personal watchlist. The app is powered by TMDb API and includes persistent data using localStorage.

Tasks Completed

Task 1: MovieCard with Hover Video Preview
- Designed a MovieCard React component.

- Shows movie poster by default.

- On hover, the poster changes to show a short preview video (trailer or dummy video).

- Added smooth animation using Framer Motion.

Task 2: Watchlist Feature with localStorage
- Implemented a global context for watchlist management.

- Added 'Add to Watchlist' and 'Remove from Watchlist' buttons on each card.

- Data is saved to and retrieved from localStorage (even after refresh).

- Created a dedicated Watchlist Page.

Task 3: Search Functionality using TMDb API
- Integrated TMDb API to fetch real movie data.

- Created a search bar where users can input keywords.

- Displayed live search results with posters and titles.

- For movies with available trailers, added video previews.

Technical Stack
- Frontend: React.js, JSX, CSS

- Animations: Framer Motion

- Data Persistence: localStorage

- API Used: TMDb (The Movie Database API)

- Version Control: Git + GitHub

- Hosting: Netlify

Project Features

- Responsive UI (works on desktop & mobile).

- Horizontal scrolling movie list.

- Video previews on hover.

- Seamless watchlist experience (add/remove).

- Error handling for API/network issues.

- Placeholder images for missing posters.

Learnings & Experience

- Learned React hooks (useState, useEffect, useContext).

- Understood how to use REST APIs in real-world projects.

- Learned debugging with browser dev tools and console errors.

- Gained experience in Git version control and GitHub collaboration.

- Understood real-world UI/UX flow for movie-based apps.

GitHub Repository

https://github.com/santhiya241004/React-movie-app

Conclusion

This internship allowed me to apply theoretical React knowledge in a practical project. I developed the core features of a functional movie app with search, preview, and watchlist capabilities. The project improved my confidence in working with APIs, state management, and deployment workflows.