Movie Search & Favorites App

[1] Objective

Build a small React application that allows users to search for movies, view results, and manage a list of favourite films saved locally in the browser. This assignment tests your understanding of React fundamentals, API integration, state management, and local storage.

[2] Assignment Description

Create a React app with the following features:

1. **Movie Search**

   - Provide an input field where users can type a movie title.

   - On submitting the search, fetch matching movies from the OMDb API (you can get a free API key).

   - Display the search results with each movie's poster, title, and release year.

   - Show a loading indicator while fetching data.

   - Handle and display errors gracefully (e.g., no results found, network errors).

   - **Favorites Management**

     1. Each movie in the search results should have a button to "Add to Favorites" if it's not already favorited, or "Remove from Favorites" if it is.

     2. Display a separate list of favorite movies below or beside the search results.

     3. Persist the favorites list in localStorage so that favorites remain after refreshing the page.

     4. Prevent duplicate movies in the favorites list.

   - **Bonus (Optional)**

     1. Add a toggle or filter button to switch between viewing all search results or only favorites.

     2. Add basic styling to improve the user interface and user experience.

Technical Requirements

- Use **React functional components** and **React Hooks** (useState, useEffect) exclusively.

- Manage state properly for search input, search results, favorites list, and loading/error states.

- Use fetch or any HTTP client to call the OMDb API (https://www.omdbapi.com/).

- Synchronize favorites state with localStorage using useEffect.

- Break your app into reusable components (e.g., SearchBar, MovieList, MovieCard, FavoritesList).

- Write clean, readable, and well-commented code.

- No external state management libraries (like Redux) are required.

- Basic CSS styling is sufficient; focus on functionality.

Deliverables

- A GitHub repository or ZIP file with your React app source code.

- Instructions on how to run the app locally.

- (Optional) Notes on any assumptions, challenges, or bonus features you implemented.

In case of any doubts or concerns, please contact us at the following email address:

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Try not to use the help of AI to write this code, it will only benefit you in learning. Thank you.