**React Js Course-End Project**

**Summary**

This updated Search Bar component ensures that no movies are displayed upfront and only shows results based on user search queries. It handles different search types (title, rating, genre), manages loading states, and provides clear error messages to enhance the user experience.

1. State Management:

* movies: Stores the full list of movies fetched from the API.
* filtered Movies: Stores the list of movies matching the search query. Initialized as an empty array to prevent displaying movies upfront.
* query: Stores the user's search input.
* search Type: Determines the type of search (title, rating, or genre). Defaults to 'title'.
* loading: Indicates if the app is currently fetching data.
* error: Stores any error messages.

1. useEffect Hook:

* Fetches movie data from the API when the component mounts.
* Sets loading to true while fetching and false when the fetch completes.
* Updates movies with the fetched data and handles any errors by setting an appropriate error message.

1. handleSearch function:

* Checks if the search query is empty. If so, it sets an error message and clears filtered Movies.
* Filters the movies array based on the query and search Type.
* If searching by title, it checks if movie.title includes the query.
* If searching by rating, it checks if movie.rating matches the query.
* If searching by genre, it checks if movie.genre includes the query.
* Updates filteredMovies with the filtered results.
* Sets an error message if no movies match the query; otherwise, clears the error message.

1. Rendering:

* Displays a loading indicator (<Loading />) while fetching data.
* Displays an error message (<Error />) if an error occurs or if no movies match the search query.
* Renders the MovieList component with filteredMovies if there are any matching movies.
* Optionally displays a message indicating that no movies were found and prompts the user to enter a search query.

GitHub Link: https://github.com/saitarun23/ReactJs-Movie-App-Project