

# React Mini Assignment

## User Management Dashboard

### Problem Statement

Build a **User Management Dashboard** using **React Router v6**, **Redux Toolkit**, **Axios**, and **Context API**. The app should fetch users from a public API, display them in a list, allow navigation to individual user details, and demonstrate handling of errors, themes, and API state management.

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### Requirements

- **Routing (React Router v6)**
  - `/` → Home page with a welcome message.
  - `/users` → Display list of users fetched from API.
  - `/users/:id` → Show details of a specific user.
- **Redux Toolkit (Store, Actions, Reducers)**
  - Create a `usersSlice` for managing user data.
  - State should include: `list`, `loading`, and `error`.
  - Use `createAsyncThunk` for API calls (`fetchUsers`, `fetchUserById`).
- **Axios for API Calls**
  - Fetch users from JSONPlaceholder Users API.
  - Handle loading and error states properly.

- **Middleware (Thunk)**
  - Use Thunk with Redux Toolkit async actions to fetch data.
- **Error Boundaries**
  - Implement an `ErrorBoundary` component.
  - Wrap at least one route (`/users/:id`) with it.
- **Context API vs Prop Drilling (Optional - only implement if time permits)**
  - Create a **ThemeContext** with light/dark themes.
  - Add a toggle button in the header to switch themes.
  - Apply theme to components without using prop drilling.

### Assignment Deliverables

- Working React app with routing, Redux, and Axios.
- Users list page showing API data.
- User details page showing individual user info.
- `ErrorBoundary` handling unexpected rendering errors.
- Theme toggle using Context API.