

React Router Task: Login Page with Frontend Validation and Redirect

Requirements:

1. **Create a Login page (`/login`) with:**
 - Input fields for **username** and **password**.
 - A **Login** button.
 - Frontend validation that only accepts:
 - Username: `"admin"`
 - Password: `"1234"`
 - If the credentials are correct, the user should be redirected automatically to the **Home** page (`/`).
 - If the credentials are incorrect, display an error message (e.g., "Invalid username or password").
2. **Create a Home page (`/`) that:**
 - Shows a welcome message like "Welcome Home".
 - Has a **Logout** button that logs the user out and redirects them back to the Login page.
3. **Routing:**
 - Use **React Router v6** (`BrowserRouter`, `Routes`, `Route`, `<Navigate />`) to handle navigation and route protection.
 - Protect the Home route so that if the user is **not logged in**, navigating to `/` redirects to `/login`.
4. **State management:**
 - Store the login state (`isLoggedIn`) using React's `useState` hook in the main App component.
 - Pass down login and logout handlers as needed.