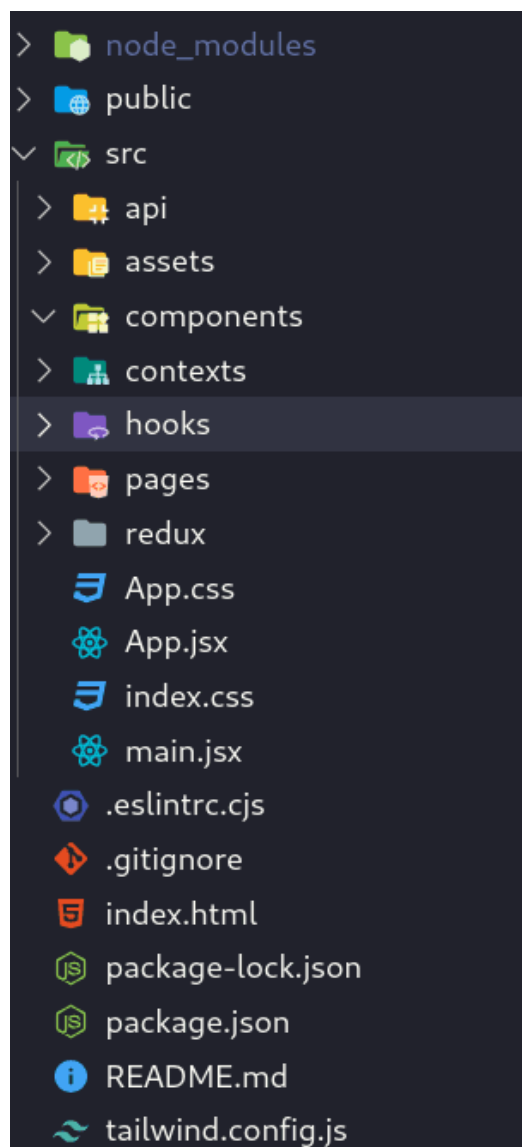


In this assignment, you'll create signin and signup pages for the coder dashboard.

Initial Setup:

We recommend setting up a React application using Vite, initialized with TailwindCSS. As for the file structure, you have the flexibility to choose any structure you prefer, but we recommend the following:

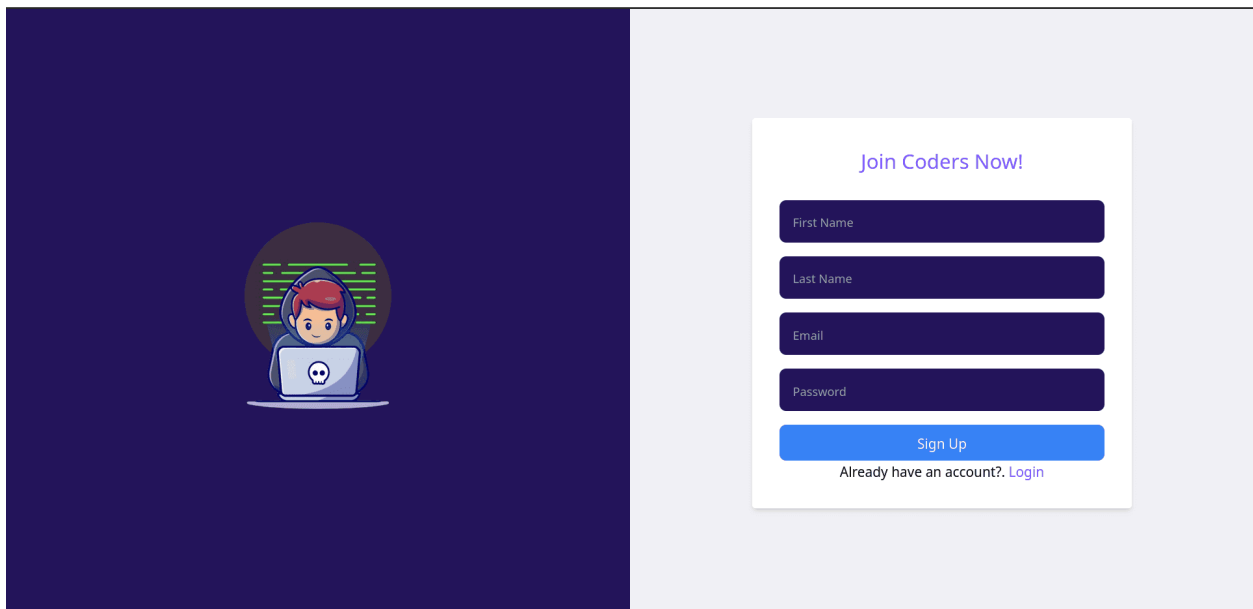


- **pages:** Contains code files related to the pages.

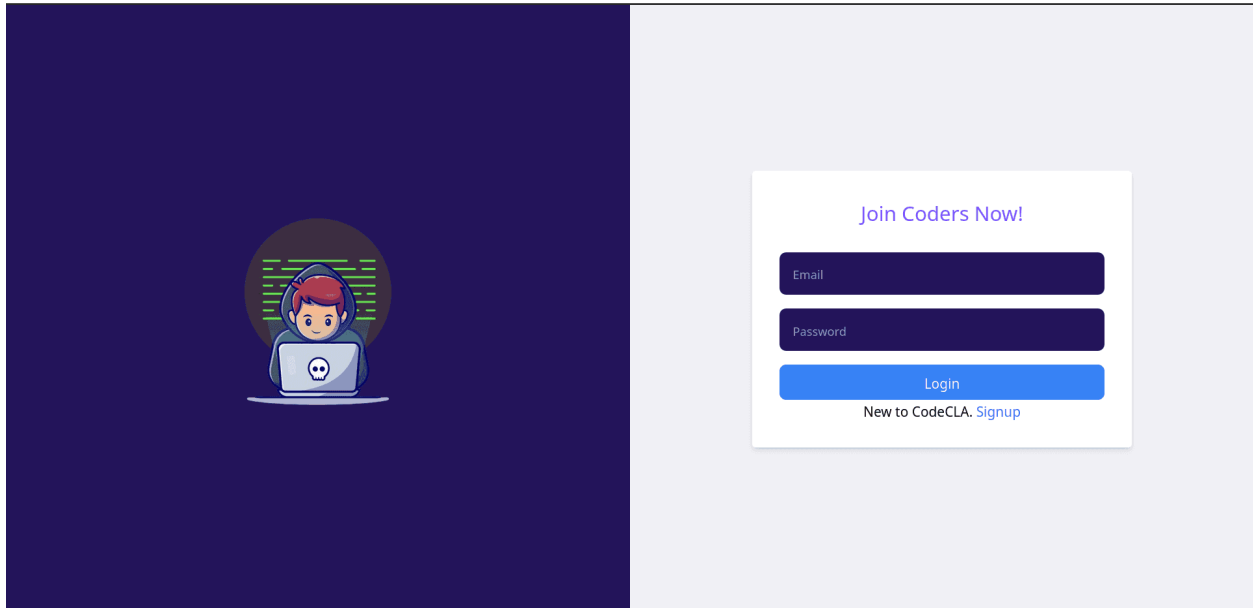
- **components:** Houses the various React components used across the application.
- **api:** Contains code responsible for interacting with the remote API to fetch or mutate data.
- **contexts:** Contains files related to any custom React context used in the application.
- **hooks:** Stores custom hooks created for the application.
- **redux:** Contains code related to Redux, such as reducers, actions, and store configuration.

Tasks

1. Develop the signup page UI (Use the code from the previous assignments)



2. Develop the signin page UI (Use the code from the previous assignments)



3. Setup react router and add routing logic between the signin and signup pages.
4. Setup initial redux toolkit store where you store the authentication state to be used by you components.
5. Create a ProtectedRoute component that ensures the user is authenticated before displaying the requested content. If the user is not authenticated, they will be redirected to the sign-in page.
6. We'd like you to implement form validation for both the sign-in and sign-up pages:
 - For the sign-in page, utilize React state management to achieve form validation.
 - For the sign-up page, leverage react-hook-form along with zod for efficient and flexible validation.