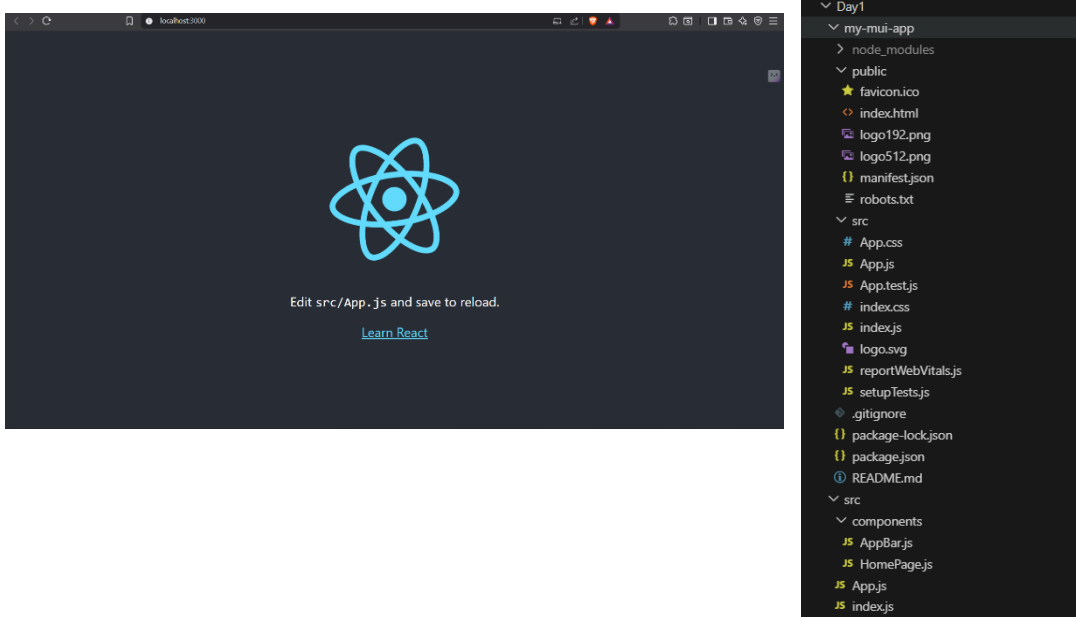


AeroAspire -SDE Intern Training

NIRANJAN C N

Week2, Day 1-Sep 29

Task: Scaffold app; setup basic folder structure; create homepage with MUI Typography and AppBar



- The scaffold app meaning a basic foundation structure for the development of any project.
- Here it was to be built with react and vite.
- So the folder structure is as shown in the above picture
- Installed the frameworks for react app
- Here the my-mui-app contains all the node modules and components
- For this first I created a react app named my-mui-app using the command:
 - `npx create-react-app my-mui-app`
- and then set the current directory to my-mui-app
- Installed the material ui and components and also the node modules using the command:
 - `npm install @mui/material @emotion/react @emotion/styled`
- The next step was to build a basic folder structure like this:

src/

components/

AppBar.js

HomePage.js

App.js

index.js

- Then to start the react app at the localhost I used the command:

- npm start
- to test the development server:
 - npm test
- The basic code was provided in <https://react.dev/learn> and referred Gen ai sources.
- I am thinking of adding content for the home page to have it started.
- Once the local host is started I can save changes and check for result.

Questions:

1. What files/folders does Vite produce and what is the build / dev flow?
 - a. Vite on installing produces a basic file structure having a src folder and a public folder
 - b. Vite gives a localhost that is a development server
 - c. The build/dev flow is like:
 - i. First install vite and set up a react app
 - ii. Add files or folders under src folder and develop the project
 - iii. Check local host server for live preview of the project
 - iv. Assets are imported from public folder
2. What is bundling / hot reloading. How does Vite help speed up development?
 - a. Bundling is a process which packages all the source files are converted to a format such that they are suitable for being deployed
 - b. Vite does bundling to reduce execution time that is it produces a fast loading webpage
 - c. Hot reloading means that when we save our code, the localhost automatically updates the browser with the changed code, without requiring to relaunch the full page.
 - d. This provides immediate preview as we develop the project
 - e. Vite is advantageous for development as a fast development server.
3. Describe how React components are structured: what parent/child relationship, what props?
 - a. In react the ui is built from components and assets
 - b. A particular component can be included in another component
 - c. The component that includes another is considered the parent, and the included component is the child.
 - d. Parent components can pass information to their children through the usage of props
 - e. And also props are read only they cant be altered to do so we use event handlers
 - f. The parent component lets the child access the properties.