Understand React Structure

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Introduction to build tools

CRA tool

npx create-react-app app-name

- Installs unnecessary files and folder
- Leads to large file size

Vite tool

npm create vite@latest

- Improved development tool
- Used with React, Angular, or JavaScript
- Makes optimum use of JavaScript modules
- Bundles code only when required

Creating React project

npm create vite@latest

```
? Select a framework: > - Use arrow-keys. Retu
    Vanilla
    Vue
>   React
    Preact
    Lit
    Svelte
    Solid
    Qwik
    Others

? Select a variant: >              Done. Now run:
    TypeScript
    TypeScript + SWC                cd learning_react
>   JavaScript                     npm install
    JavaScript + SWC               npm run dev
    Remix ↗
```

Creating React project

```
VITE v5.1.6  ready in 289 ms

→  Local:    http://localhost:5173/
→  Network: use --host to expose
→  press h + enter to show help
```
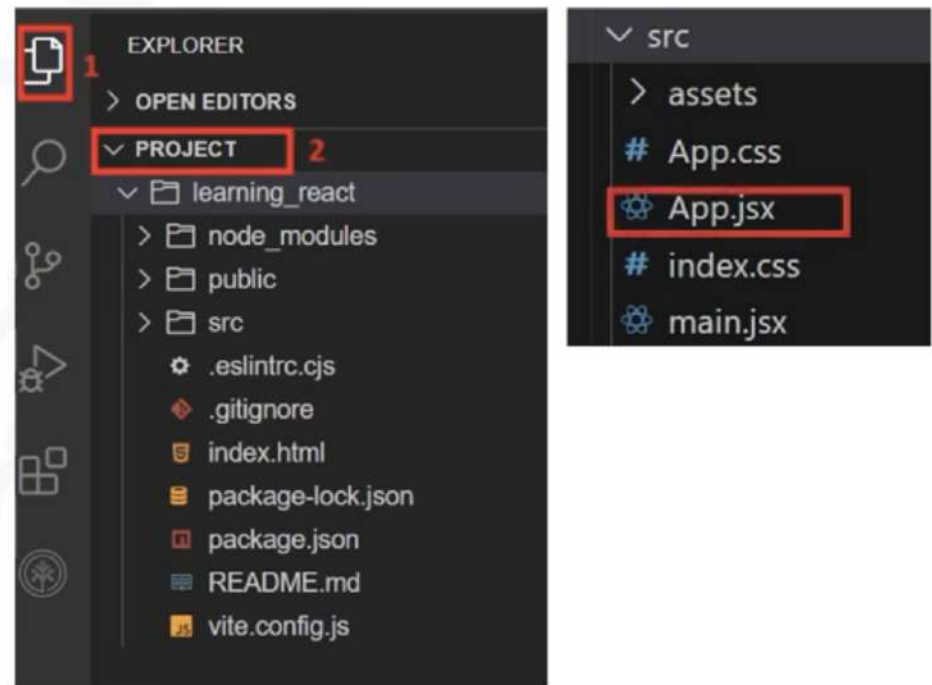
Vite + React

count is 0

Edit src/App.jsx and save to test HMR
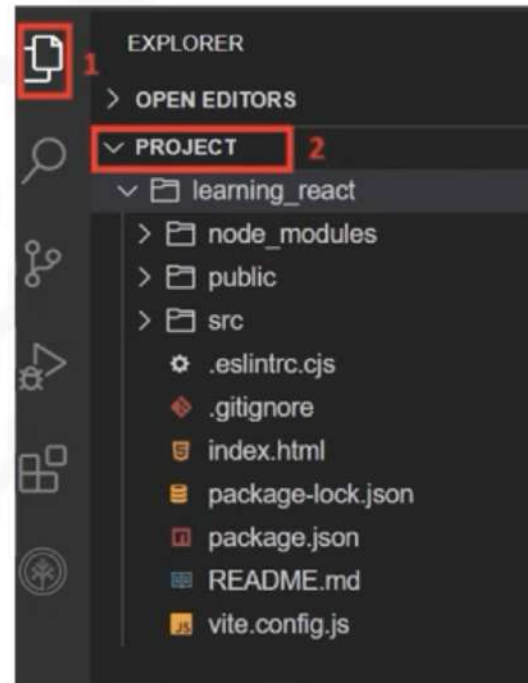
Click on the Vite and React logos to learn more

React folder structure

- **Node_modules**: Dependencies through npm and yarn

- **public**: Static assets like HTML files, images, and fonts

- **src**: Source code for the React application

- **main.jsx**: Entry point for the React application

- **App.jsx**: Root component of the React application

React folder structure

- `package.json`: Metadata, scripts for running, building, and testing

- `vite.config.js`: Configuration settings for the Vite build tool

- `.gitignore`: Files and directories to be ignored

- `README.md file`: Setup instructions, usage guidelines, and project documentation

- `Index.html`: Entry point for web applications

- `eslintrc.cjs`: Configuration file used by `ESLint`

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Recap

In this video, you learned that:

- Vite is a build tool which is an improved development tool for front-end projects in the current web development scenario

- Vite handles JavaScript modules by bundling code only when its required, which speeds up time for programming and building

- After creating a React project with Vite, the folder structure consists of many directories and files like node modules, public, src, `main.jsx,` `App.jsx,package.json`, and so on