

Report Day: 6.1

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Group: Frontend Development @ProSensia

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What is React?

React is a **JavaScript library** used to build **web pages** and **user interfaces (UIs)**.

- Made by **Facebook**.
- Helps create **interactive** and **fast** websites.
- Used for **Single Page Applications (SPA)** – websites that load once and then update without reloading the whole page.

How to Set Up React Using create-react-app

To start using React easily, we use a tool called **create-react-app**. It sets up everything for you.

1. **Install Node.js**
Go to <https://nodejs.org> and install it.
It comes with `npm` (a tool to install packages).
2. **Create a New React App**
 - Open your **command prompt (cmd)** or **terminal**.
 - Type this

`npx create-react-app my-app`

3. **Go to Your Project Folder:**

Type this:

`cd my-app`

4. **Start the App:**

Type this:

`npm start`

Our browser will open a page at <http://localhost:3000> showing the React welcome screen.

We now have a basic React app! The page is running, and you can start editing the code in:

- `src/App.js` → Main component
- `public/index.html` → The HTML file that loads our app

Screenshots:

```
Command Prompt
Microsoft Windows [Version 10.0.26100.4652]
(c) Microsoft Corporation. All rights reserved.

C:\Users\AYESHA ABID>cd Downloads
C:\Users\AYESHA ABID\Downloads>mkdir first-react-app
C:\Users\AYESHA ABID\Downloads>cd first-react-app
C:\Users\AYESHA ABID\Downloads\first-react-app>npm -v
10.9.2
C:\Users\AYESHA ABID\Downloads\first-react-app>npx create-react-app
Need to install the following packages:
create-react-app@5.1.0
Ok to proceed? (y) y

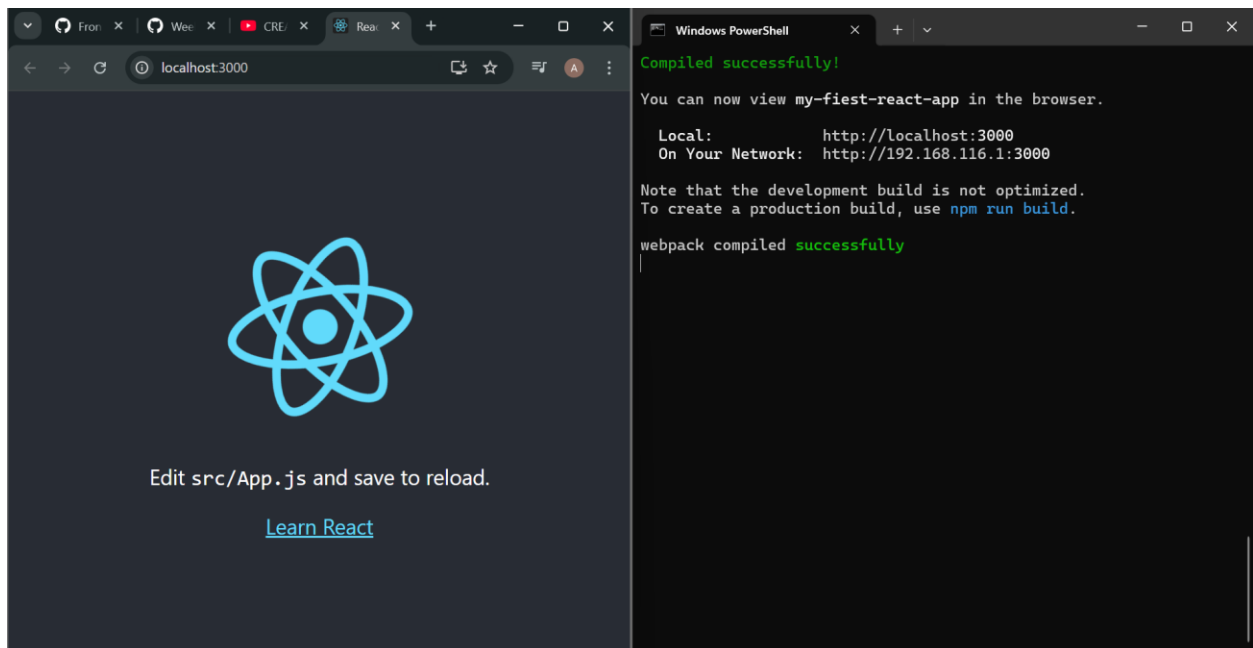
Please specify the project directory:
  create-react-app <project-directory>

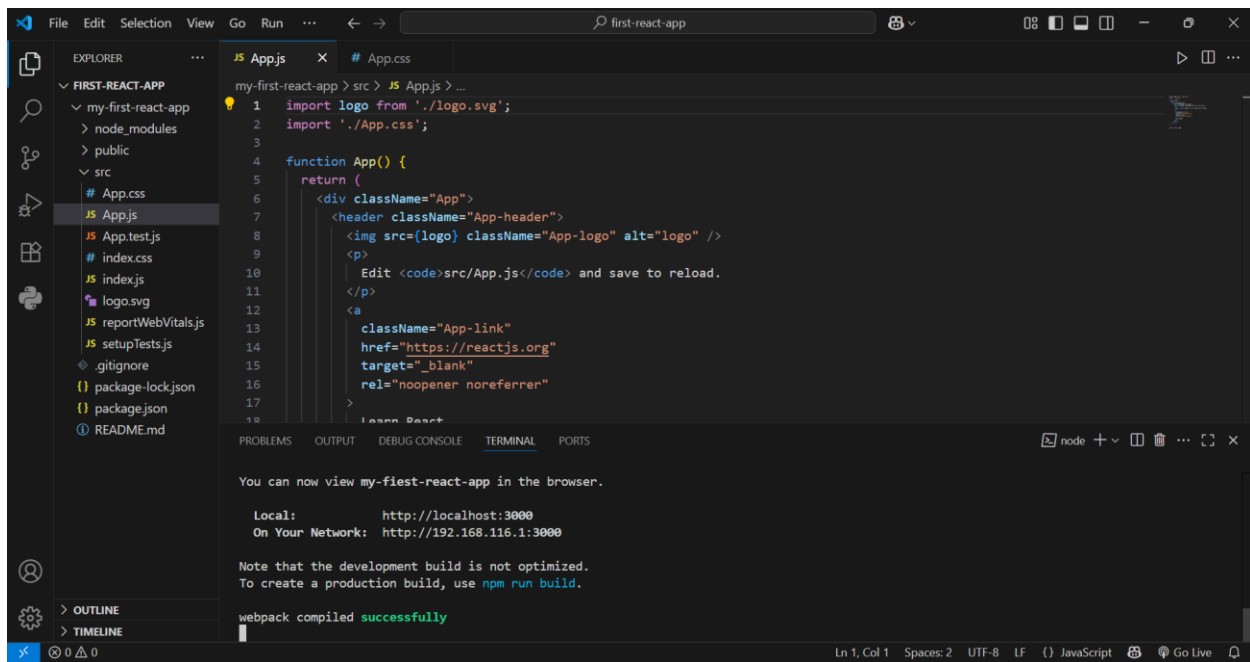
For example:
  create-react-app my-react-app

Run create-react-app --help to see all options.

C:\Users\AYESHA ABID\Downloads\first-react-app>create-react-app my-first-react-app
'create-react-app' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\AYESHA ABID\Downloads\first-react-app>npx create-react-app my-fiect-react-app
Creating a new React app in C:\Users\AYESHA ABID\Downloads\first-react-app\my-fiect-react-app.
```





```
File Edit Selection View Go Run ... first-react-app
EXPLORER
FIRST-REACT-APP
  my-first-react-app
    node_modules
    public
    src
      App.css
      App.js
      App.test.js
      index.css
      index.js
      logo.svg
      reportWebVitals.js
      setupTests.js
      .gitignore
      package-lock.json
      package.json
      README.md
  OUTLINE
  TIMELINE

App.js
1 import logo from './logo.svg';
2 import './App.css';
3
4 function App() {
5   return (
6     <div className="App">
7       <header className="App-header">
8         <img src={logo} className="App-logo" alt="logo" />
9       <p>
10        Edit <code>src/App.js</code> and save to reload.
11      </p>
12      <a
13        className="App-link"
14        href="https://reactjs.org"
15        target="_blank"
16        rel="noopener noreferrer"
17      >
18        Learn React
19      </a>
20    </div>
21   );
22 }
23
24 export default App;
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

You can now view my-first-react-app in the browser.

Local: http://localhost:3000
On Your Network: http://192.168.116.1:3000

Note that the development build is not optimized.
To create a production build, use `npm run build`.

webpack compiled **successfully**

Ln 1, Col 1 Spaces: 2 UTF-8 LF {} JavaScript Go Live

