# Steps to Download Node.js and Create a React Project

### step:1 → Download and Install Node.js:

- Visit Node.js official website.
- Download the latest LTS (Long-Term Support) version for stability.
- Install Node.js by running the downloaded installer.
- Verify installation by opening a terminal and typing:

```
node -v
npm -v
```

## step:2 → Install Vite and Create a React Project

#### step:3 → Where to Write Code in React

#### **Main Project Structure:**

Inside the srcfolder, you will find the main files where you write code. Common files include:

- index.js Entry point of the React app.
- App.js Main component file where most of the code goes.

You can add or modify components in the App.js file or create new component files in the src folder.

#### step:4 → How to use Inline CSS in React

To apply inline CSS in React, use the style attribute with a JavaScript object for the styles. Example:

#### step:5 → Using Bootstrap in React

• Install Bootstrap: Install Bootstrap using npm:

npm install bootstrap

• Import Bootstrap in index.js: In the src/index.js file, add the following import statement to include Bootstrap CSS:

import 'bootstrap/dist/css/bootstrap.min.css';

• Use Bootstrap Classes: Now you can use Bootstrap classes in your components like so:

#### step: 6 → Using Routing in React (with react-router-dom)

**Install react-router-dom:** To manage routing in React, install react-router-dom:

npm install react-router-dom

• Create Separate Files for Home.js and About.js

**Create Home.js in the src Folder:** Inside the src folder, create a new file called Home.js and add the following code:

```
// src/Home.js
import React from 'react';

function Home() {
  return <h2>Home Page</h2>;
}

export default Home;
```

• Create About.js in the src Folder: Similarly, create a file called About.js in the src folder:

```
// src/About.js
import React from 'react';

function About() {
  return <h2>About Page</h2>;
}

export default About;
```

step:7 → **Setup Routes:** In App.js, import the necessary components and define the routes:

```
// src/App.jsx
import React from 'react';
import { BrowserRouter as Router, Route, Routes } from 'react-router-dom';
import Home from './Home';
import About from './About';
function App() {
 return (
   <Router>
      <div>
        <Routes>
          <Route path="/" element={<Home />} />
          <Route path="/about" element={<About />} />
        </Routes>
      </div>
    </Router>
  );
}
export default App;
```

# step:8 → Using the Link Component for Navigation

Instead of using regular anchor (<a>) tags, React Router provides the Link component for navigation.

1. Import Link: Add the import for Link from react-router-dom:

import { Link } from 'react-router-dom';

2. **Use Link for Navigation:** Replace <a> tags with the Link component: