

Lesson 04 Demo 03

Implementing Route Parameters in a React Application

Objective: To demonstrate the implementation of route parameters in a React application using React Router and components for enhanced navigation and dynamic content

Tools required: Visual Studio Code and Node.js

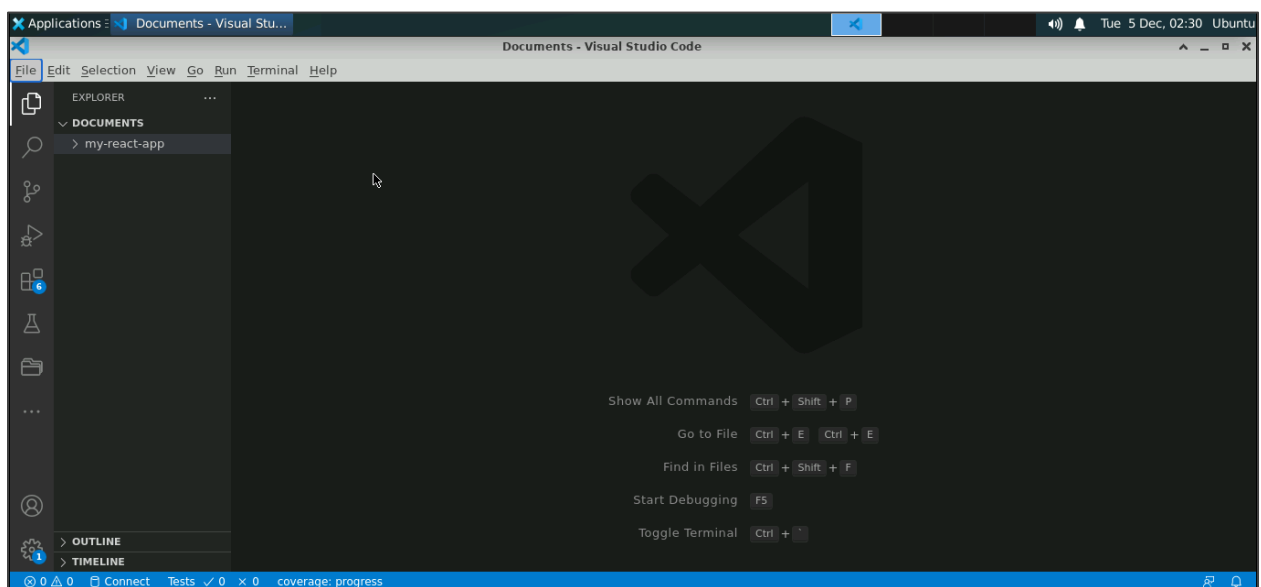
Prerequisites: A basic understanding of routes parameters in React

Steps to be followed:

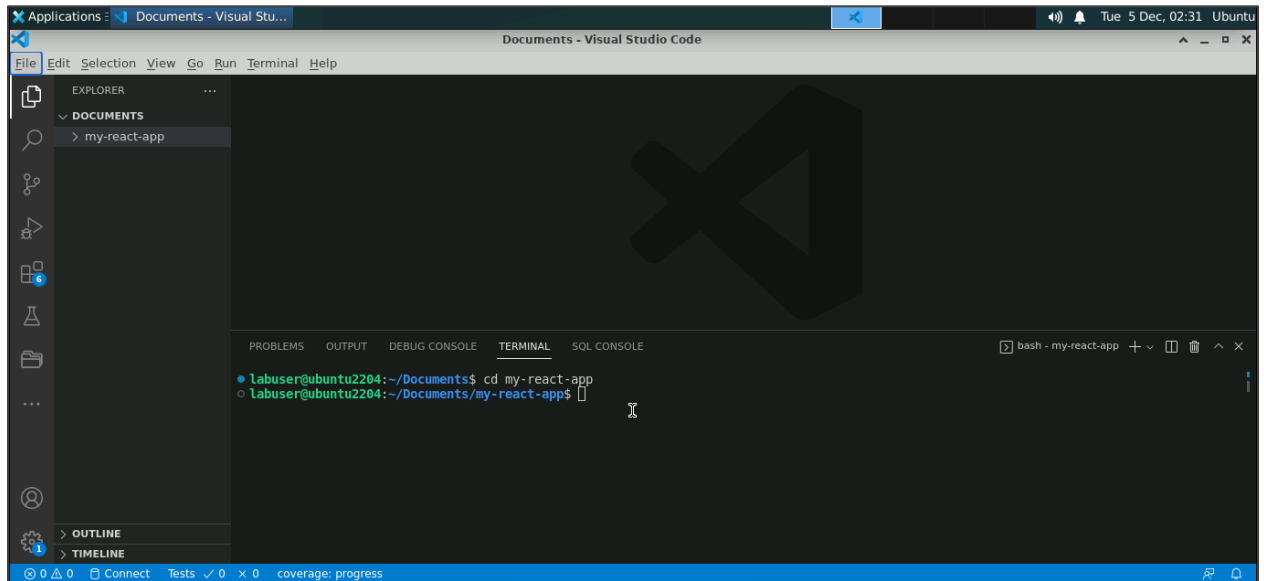
1. Set up a new React app
2. Install React Router
3. Create component files
4. Create routes with parameters
5. Run the application

Step 1: Set up a new React app

1.1 Open **Visual Studio Code** and create a new folder named **my-react-app**

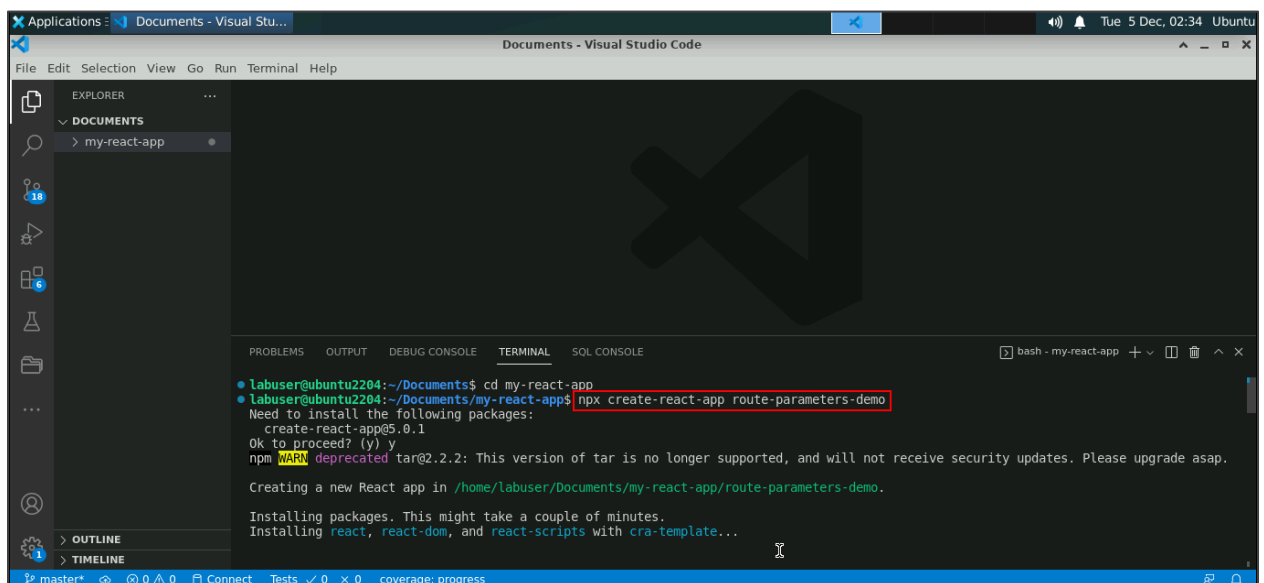


- 1.2 Open the terminal and navigate to the **my-react-app** folder using the following command:
- ```
cd my-react-app
```



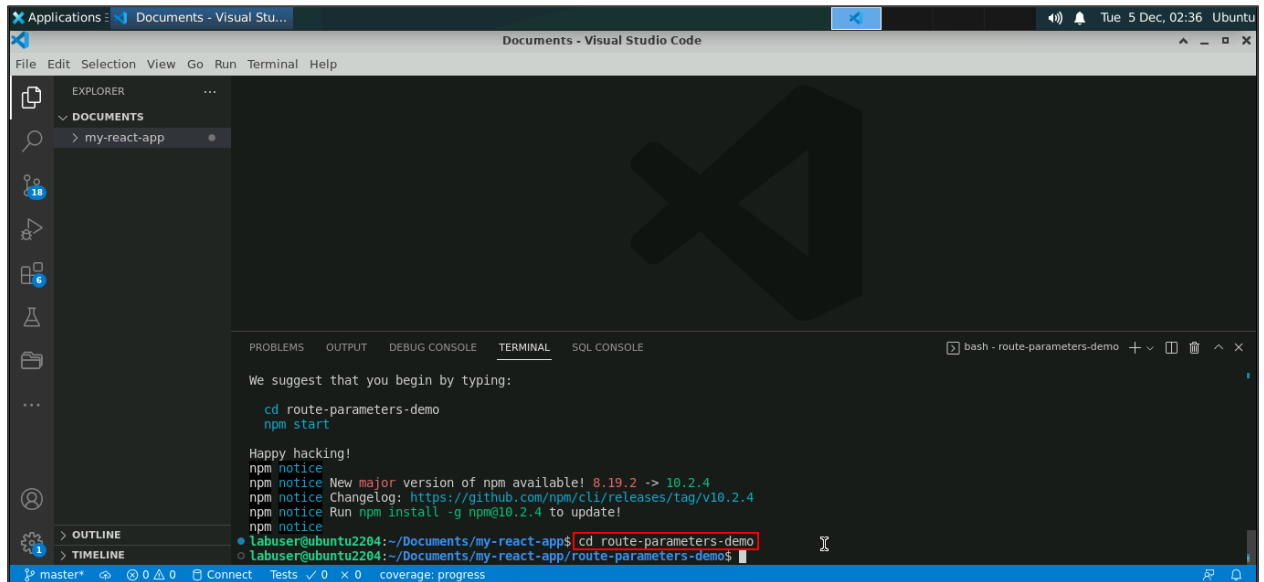
The screenshot shows the Visual Studio Code interface. The Explorer panel on the left shows the file structure with 'DOCUMENTS' expanded and 'my-react-app' selected. The Terminal panel at the bottom shows the command prompt 'labuser@ubuntu2204:~/Documents\$' and the command 'cd my-react-app' being entered. The status bar at the bottom indicates 'coverage: progress'.

- 1.3 Initialize a new React app using the following command:
- ```
npx create-react-app route-parameters-demo
```



The screenshot shows the Visual Studio Code interface. The Explorer panel on the left shows the file structure with 'DOCUMENTS' expanded and 'my-react-app' selected. The Terminal panel at the bottom shows the command prompt 'labuser@ubuntu2204:~/Documents\$' and the command 'npx create-react-app route-parameters-demo' being entered. The terminal output shows the command being executed and the packages being installed. The status bar at the bottom indicates 'coverage: progress'.

1.4 Navigate to the **route-parameters-demo** folder using the following command:
cd route-parameters-demo



```

Documents - Visual Studio Code
File Edit Selection View Go Run Terminal Help

EXPLORER
  DOCUMENTS
    my-react-app

TERMINAL
  bash - route-parameters-demo

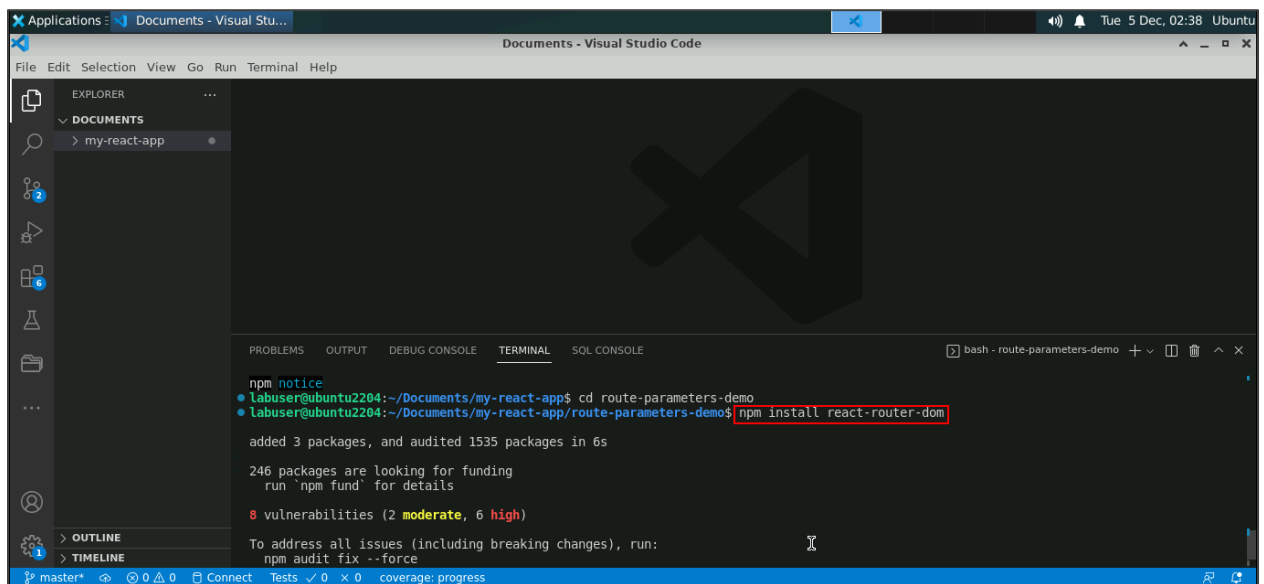
We suggest that you begin by typing:

  cd route-parameters-demo
  npm start

Happy hacking!
npm notice New major version of npm available! 8.19.2 -> 10.2.4
npm notice Changelog: https://github.com/npm/cli/releases/tag/v10.2.4
npm notice Run npm install -g npm@10.2.4 to update!
npm notice
labuser@ubuntu2204:~/Documents/my-react-app$ cd route-parameters-demo
labuser@ubuntu2204:~/Documents/my-react-app/route-parameters-demo$
  
```

Step 2: Install React Router

2.1 Install the React router using the following command:
npm install react-router-dom



```

Documents - Visual Studio Code
File Edit Selection View Go Run Terminal Help

EXPLORER
  DOCUMENTS
    my-react-app

TERMINAL
  bash - route-parameters-demo

npm notice
labuser@ubuntu2204:~/Documents/my-react-app$ cd route-parameters-demo
labuser@ubuntu2204:~/Documents/my-react-app/route-parameters-demo$ npm install react-router-dom

added 3 packages, and audited 1535 packages in 6s

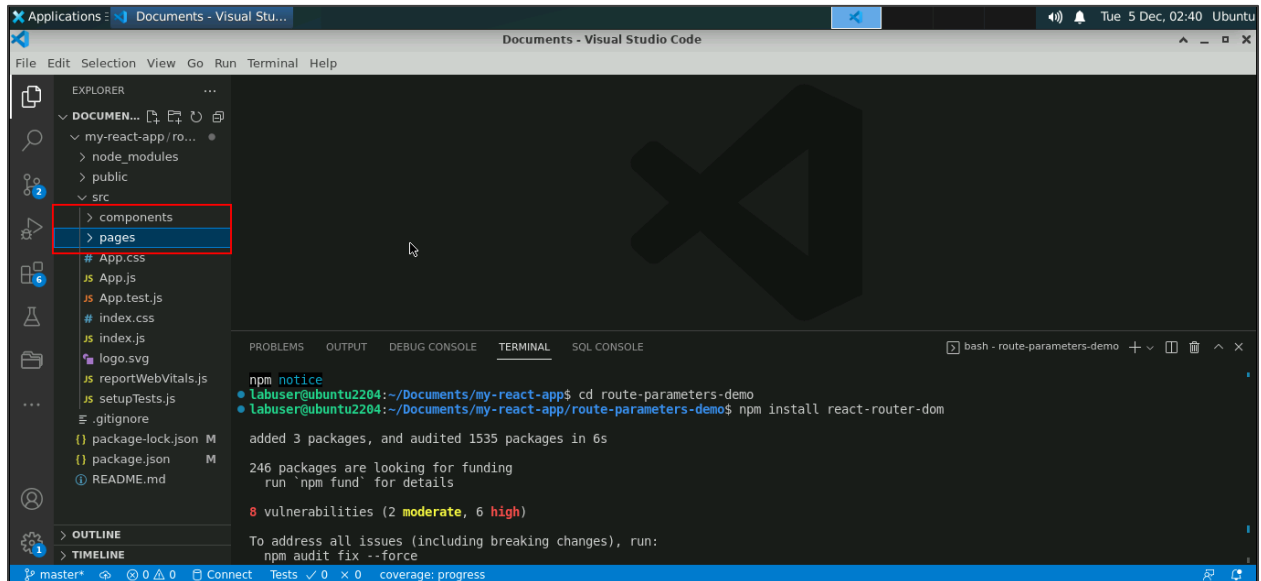
246 packages are looking for funding
run `npm fund` for details

8 vulnerabilities (2 moderate, 6 high)

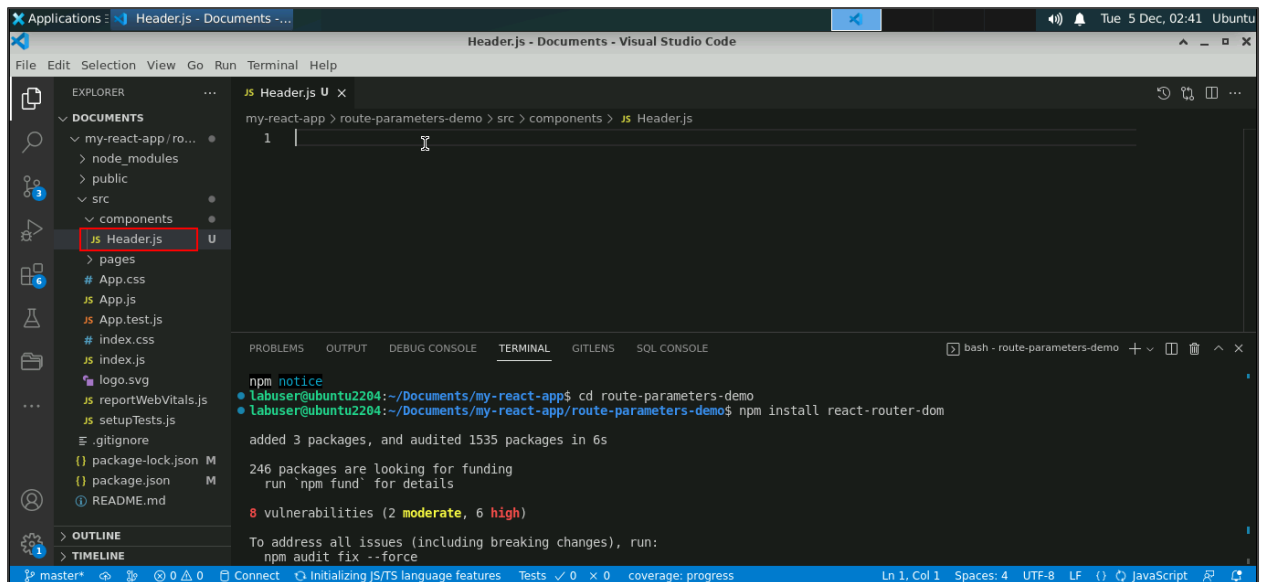
To address all issues (including breaking changes), run:
npm audit fix --force
  
```

Step 3: Create component files

3.1 In the **src** folder, create two new folders named **components** and **pages**



3.2 Inside the **components** folder, create a new JavaScript file named **Header.js**

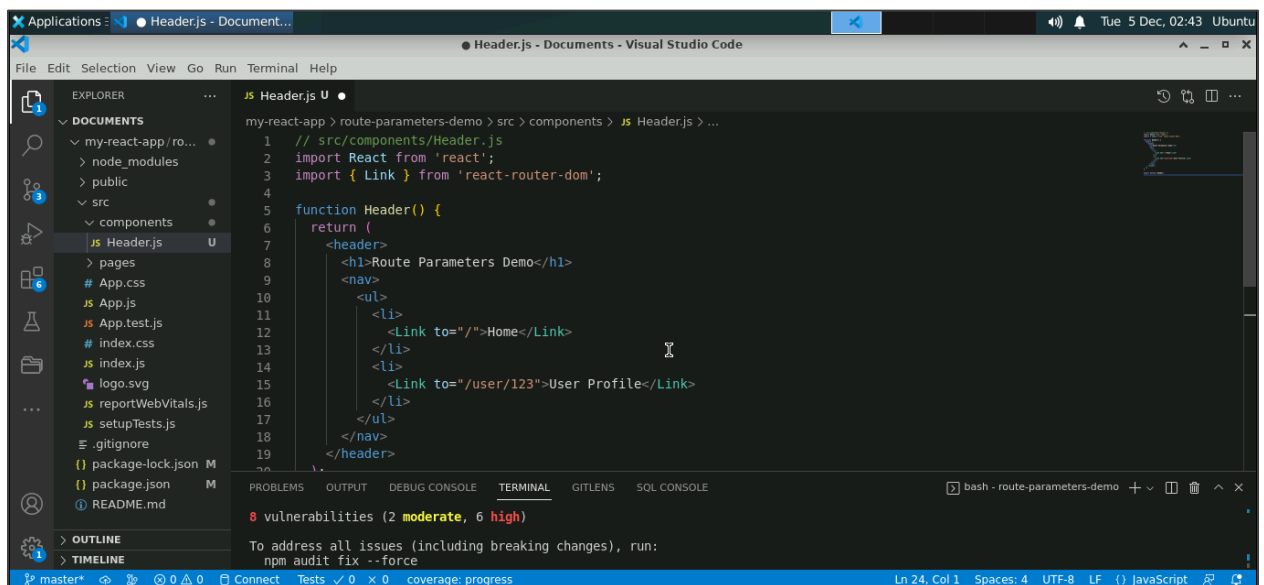


3.3 Add the following code to the **Header.js** file:

```
// src/components/Header.js
import React from 'react';
import { Link } from 'react-router-dom';

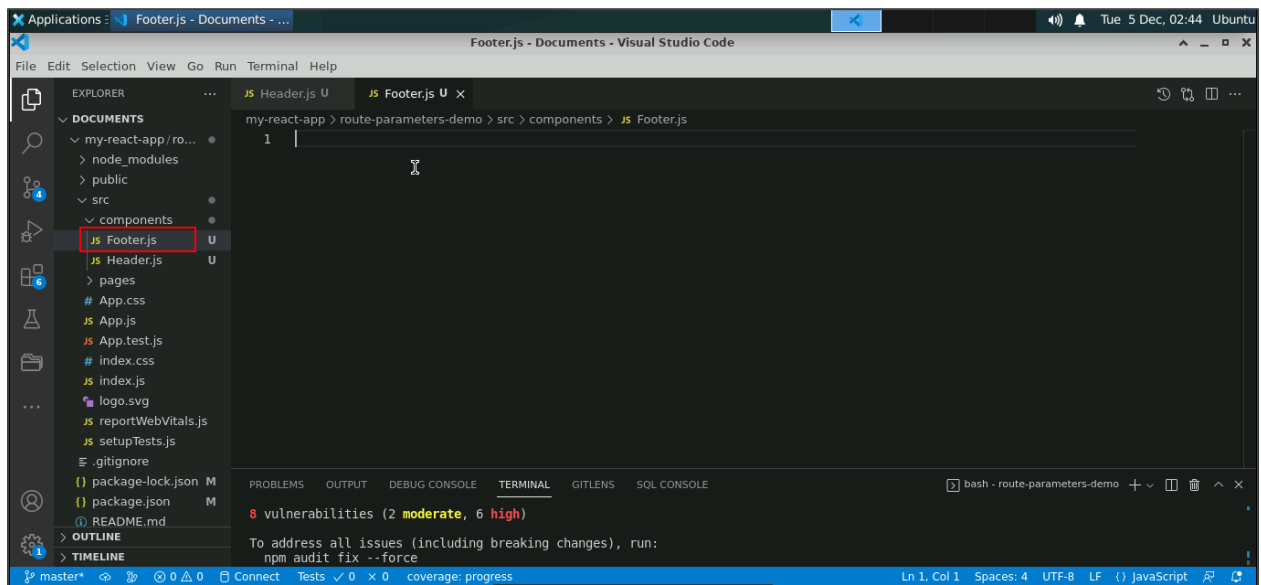
function Header() {
  return (
    <header>
      <h1>Route Parameters Demo</h1>
      <nav>
        <ul>
          <li>
            <Link to="/">Home</Link>
          </li>
          <li>
            <Link to="/user/123">User Profile</Link>
          </li>
        </ul>
      </nav>
    </header>
  );
}

export default Header;
```



Note: Save the file.

3.4 Inside the **components** folder, create a new JavaScript file named **Footer.js**



3.5 Add the following code to the **Footer.js** file:

```
// src/components/Footer.js
import React from 'react';

function Footer() {
  return (
    <footer>
      <p>© 2023 Route Parameters Demo</p>
    </footer>
  );
}

export default Footer;
```

Visual Studio Code interface showing the `Footer.js` file in the `src > components` folder. The file content is as follows:

```
1 // src/components/Footer.js
2 import React from 'react';
3
4 function Footer() {
5   return (
6     <footer>
7       <p>© 2023 Route Parameters Demo</p>
8     </footer>
9   );
10 }
11
12 export default Footer;
```

The Explorer sidebar shows the project structure with `Footer.js` selected in the `components` folder. The terminal at the bottom shows a security audit with 8 vulnerabilities (2 moderate, 6 high).

3.6 Inside the **pages** folder, create a new JavaScript file named **Home.js**

Visual Studio Code interface showing the `Home.js` file in the `src > pages` folder. The file is newly created and empty. The Explorer sidebar shows the project structure with `Home.js` selected in the `pages` folder. The terminal at the bottom shows the same security audit results as the previous screenshot.

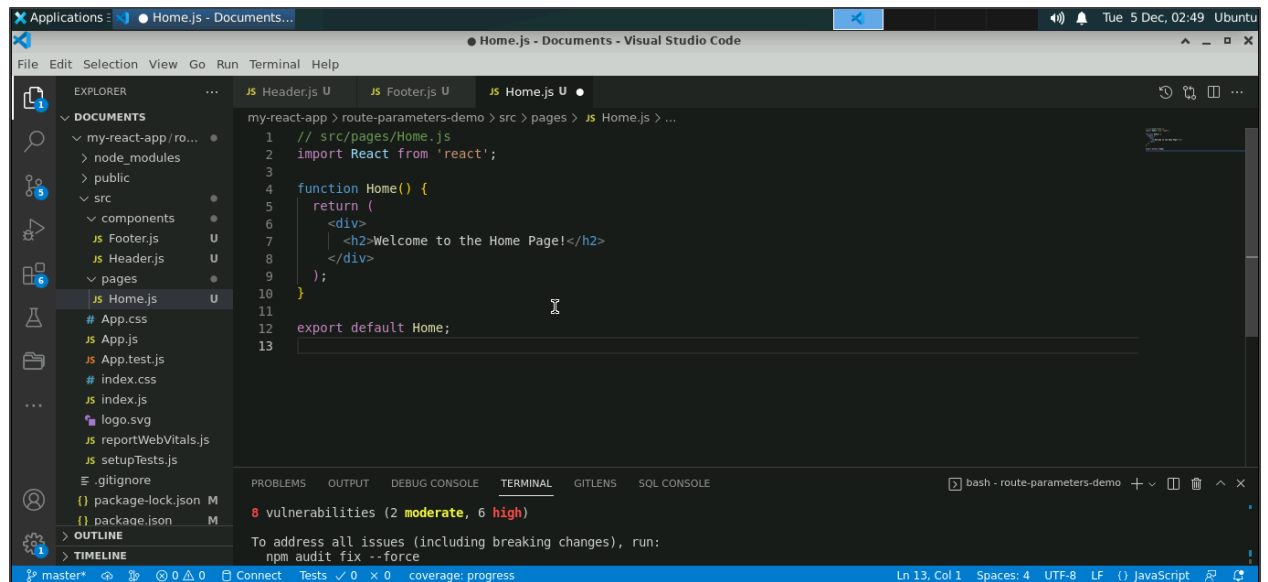
3.7 Add the following code to the **Home.js** file:

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

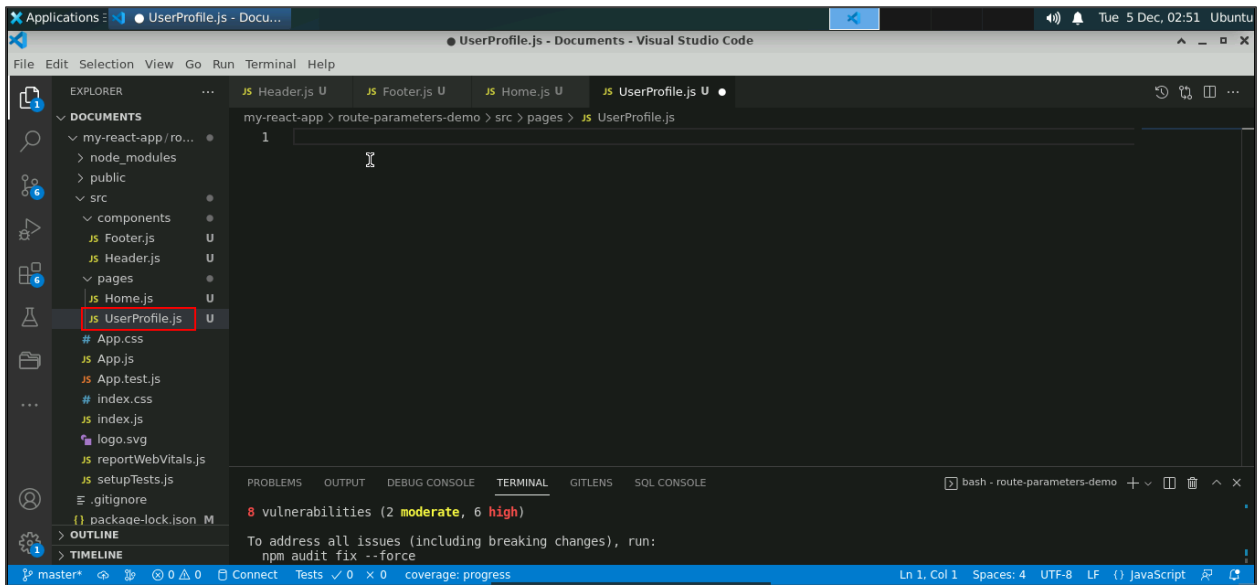
function Home() {
  return (
    <div>
      <h2>Welcome to the Home Page!</h2>
    </div>

  );
}

export default Home;
```



3.8 Inside the **pages** folder, create a new JavaScript file named **UserProfile.js**



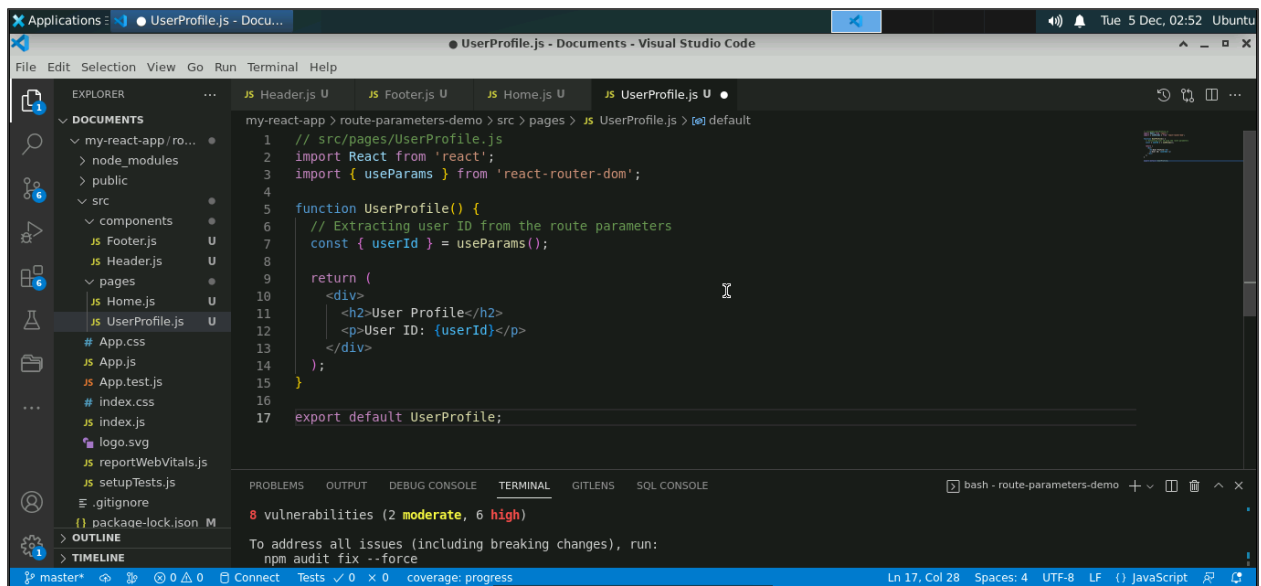
3.9 Add the following code to the **UserProfile.js** file:

```
// src/pages/UserProfile.js
import React from 'react';
import { useParams } from 'react-router-dom';

function UserProfile() {
  // Extracting user ID from the route parameters
  const { userId } = useParams();

  return (
    <div>
      <h2>User Profile</h2>
      <p>User ID: {userId}</p>
    </div>
  );
}

export default UserProfile;
```



Step 4: Create routes with parameters

4.1 Replace the existing code in the **App.js** file with the following code:

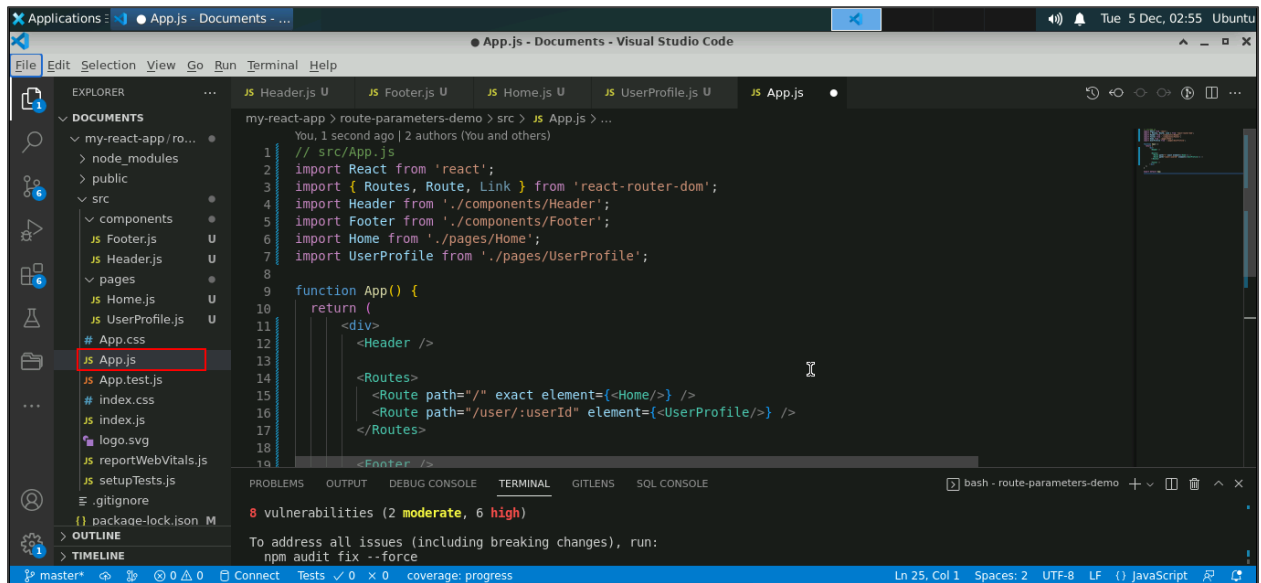
```
// src/App.js
import React from 'react';
import { Routes, Route, Link } from 'react-router-dom';
import Header from './components/Header';
import Footer from './components/Footer';
import Home from './pages/Home';
import UserProfile from './pages/UserProfile';

function App() {
  return (
    <div>
      <Header />

      <Routes>
        <Route path="/" exact element=<Home/> />
        <Route path="/user/:userId" element=<UserProfile/> />
      </Routes>

      <Footer />
    </div>
  );
}
```

export default App;



4.2 Replace the existing code in the **index.js** file with the following code:

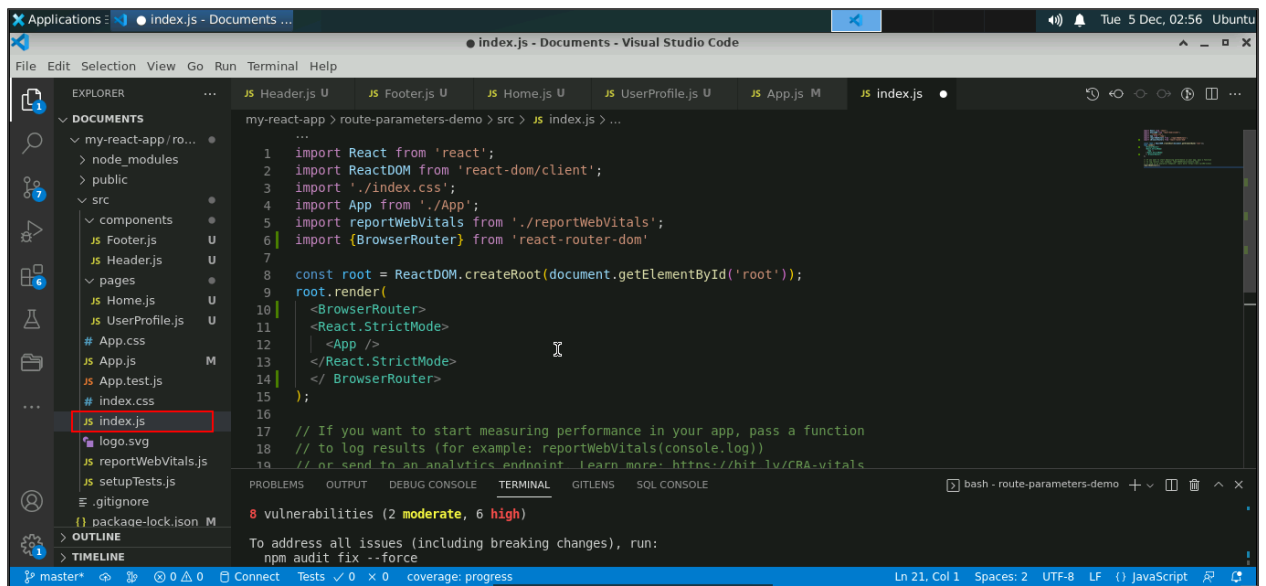
```
import React from 'react';
import ReactDOM from 'react-dom/client';
import './index.css';
import App from './App';
import reportWebVitals from './reportWebVitals';
import {BrowserRouter} from 'react-router-dom'
```

```
const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(
```

```
  <BrowserRouter>
    <React.StrictMode>
      <App />
    </React.StrictMode>
  </BrowserRouter>
```

```
);
```

```
// If you want to start measuring performance in your app, pass a function
// to log results (for example: reportWebVitals(console.log))
// or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
reportWebVitals();
```



```

1  import React from 'react';
2  import ReactDOM from 'react-dom/client';
3  import './index.css';
4  import App from './App';
5  import reportWebVitals from './reportWebVitals';
6  import {BrowserRouter} from 'react-router-dom'
7
8  const root = ReactDOM.createRoot(document.getElementById('root'));
9  root.render(
10   <BrowserRouter>
11     <React.StrictMode>
12       <App />
13     </React.StrictMode>
14   </ BrowserRouter>
15 );
16
17 // If you want to start measuring performance in your app, pass a function
18 // to log results (for example: reportWebVitals(console.log))
19 // or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals

```

8 vulnerabilities (2 moderate, 6 high)

To address all issues (including breaking changes), run:
npm audit fix --force

Ln 21, Col 1 Spaces: 2 UTF-8 LF JavaScript

Note: Save all the files.

Step 5: Run the application

5.1 Start the React development server using the following command:

npm start

The screenshot shows the Visual Studio Code interface with the 'index.js' file open. The terminal at the bottom displays the output of the 'npm start' command. It shows that 246 packages are looking for funding, there are 8 vulnerabilities (2 moderate, 6 high), and the application is starting successfully. The command prompt shows 'npm start' being executed, and the output indicates that the application is running on port 3000.

```

my-react-app > route-parameters-demo > src > JS index.js > ...
16
17 // If you want to start measuring performance in your app, pass a function
18 // to log results (for example: reportWebVitals(console.log))
19 // or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
20 reportWebVitals();
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By following these steps, you have successfully set up a React application with route parameters to facilitate dynamic content and improved navigation using React Router and components.