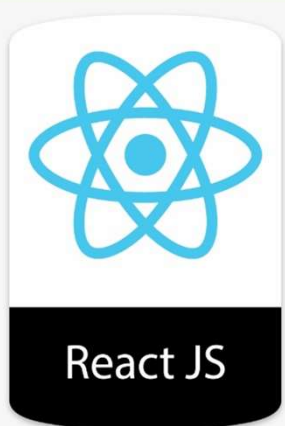


10

Child Routing in React



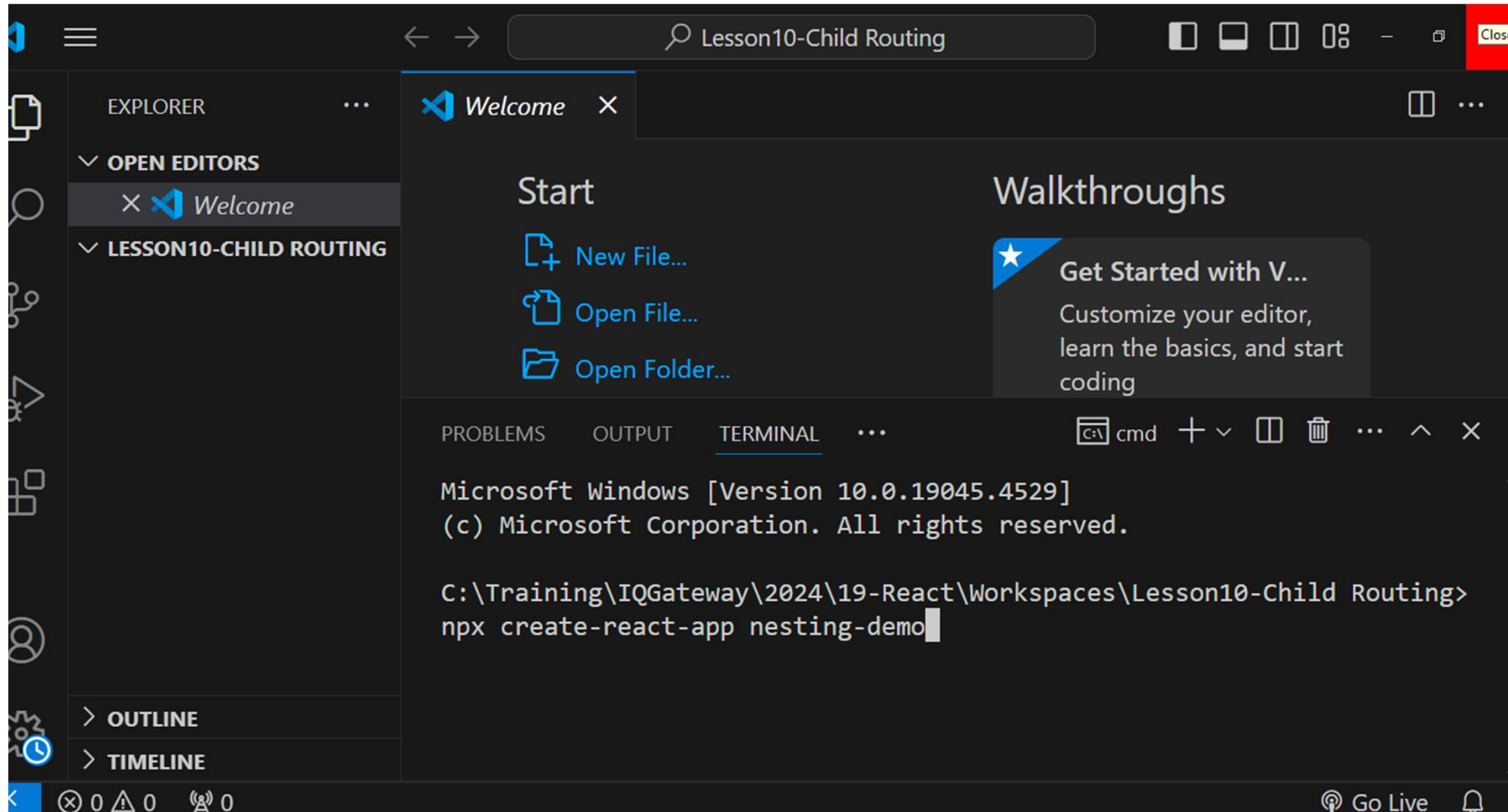
Child Routing

- Nested routes in React JS are implemented using the outlet in React Router Dom.
- Routing in React not only provides routing for the pages but also for switching the content inside that page.
- Nested routes implement this by defining Routes for Child components inside parent route components.

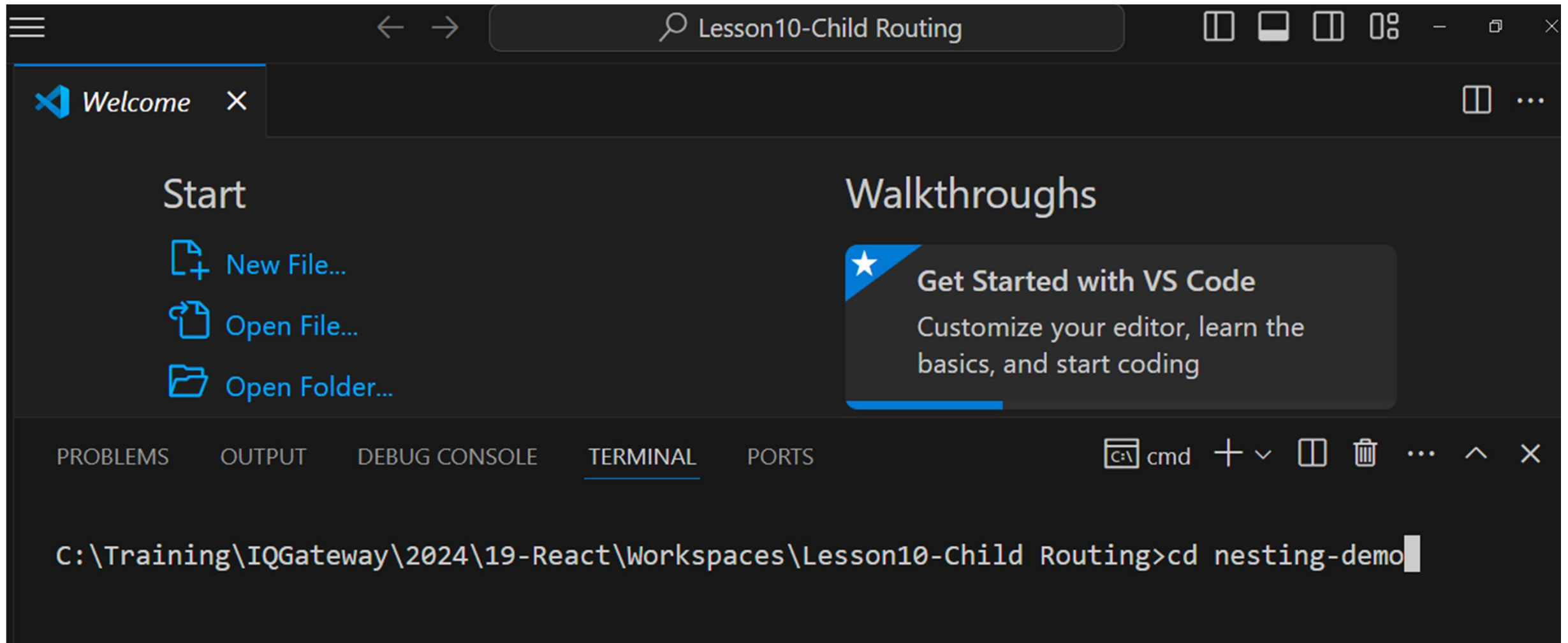
Approach for Nested Route

- For nested routes in React JS Define the children routes inside the Route component of the Parent route.
- In react-router-dom v6 use Route with element and path attribute encapsulated in Routes.
- Inside the parent route use the Outlet component after the links of child components to show the link and switch between the child components rendering in Parent

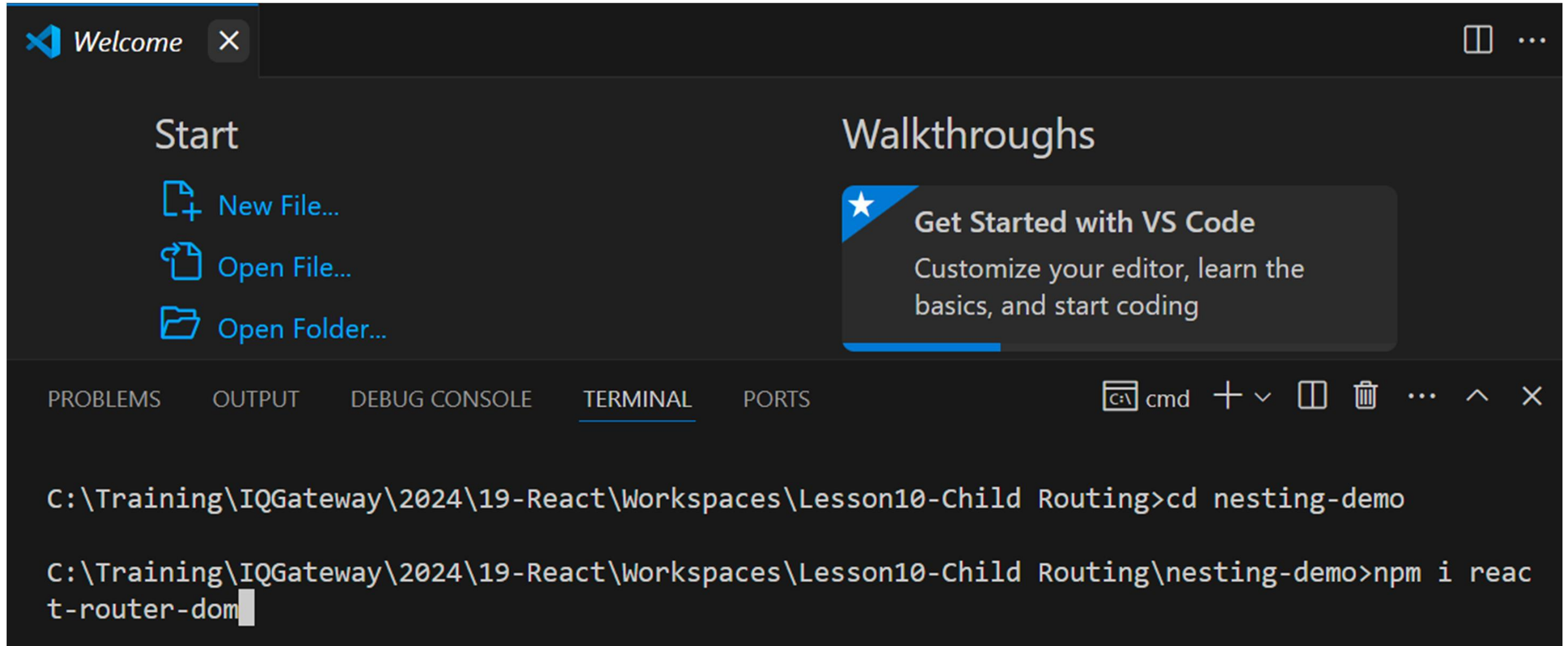
Step 1: Create a React application



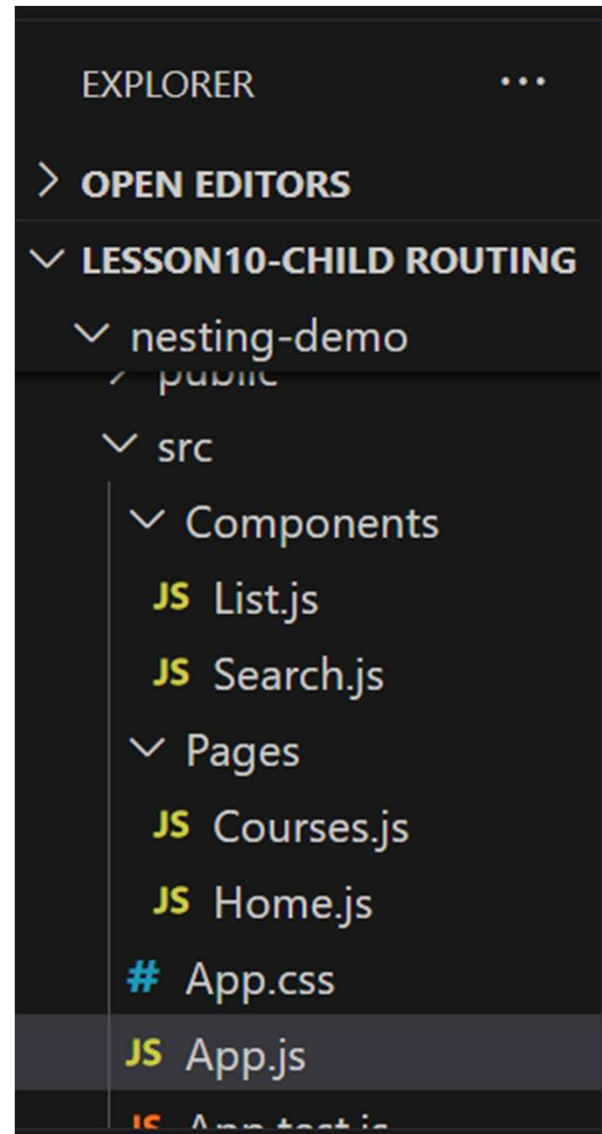
Step 2: Now, go to the project folder



Step 3: Let's install the React Router DOM npm package required for this project



Components Which Make up our Application



JS App.js



nesting-demo > src > JS App.js > App

```
1  import { BrowserRouter as Router,  
2    Link,  
3    Routes,  
4    Route,  
5  } from "react-router-dom";  
6  import "./App.css";  
7  import Home from "./Pages/Home";  
8  import Courses from "./Pages/Courses.js";  
9  import Search from "./Components/Search";  
10 import List from "./Components/List";  
11
```

```
function App() {  
  return (  
    <div className="App">  
      <Router>  
        <nav>  
          <Link to="/">Home</Link>  
          <Link to="courses">Courses</Link>  
        </nav>  
        <Routes>  
          <Route path="/" element={<Home />} />  
          <Route path="/courses" element={<Courses />} />  
          <Route path="search" element={<Search />} />  
          <Route path="list" element={<List />} />  
        </Routes>  
      </Router>  
    </div>  
  );  
}  
export default App;
```

App.css

```
# App.css ×
nesting-demo > src > # App.css > .Search

40  .App nav,
41  .courses-nav {
42    background: #f2f2f2;
43    height: 4vh;
44    min-width: 600px;
45    border-radius: 10px;
46    text-align: center;
47    border-bottom: 2px solid #2f8d46;
48  }
49
50  /* Styling for App component nav element anchor
51  tag and Course component nav element anchor tag */
52  .App nav a,
53  .courses-nav a {
54    padding: 20px 20px;
55    font-size: 26px;
56    font-weight: bold;
57    text-transform: uppercase;
58    text-decoration: none;
59    color: #2f8d46;
60  }
```

```
/* Styling for Course component
course-nav div anchor tag */
.courses-nav a {
  color: rgb(59, 117, 241);
}

/* Styling for the Home component main div */
.Page {
  width: 100%;
  height: 96vh;
  display: flex;
  flex-direction: column;
  align-items: center;
  gap: 15px;
  background-color: lightgreen;
}
```

```
/* Styling for the Search & List component main div */
.Search,
.List {
  width: 50%;
  height: 40%;
  padding: 100px;
  background-color: whitesmoke;
}
```

Home.js

JS Home.js X

nesting-demo > src > Pages > JS Home.js > [🔗] default

```
1  import React from "react";
2
3  const Home = () => {
4    return (
5      <div className="Page">
6        <h1>You are in the Home page!</h1>
7        <h3>URL: localhost:3000/</h3>
8      </div>
9    );
10 };
11
12 export default Home;
```

JS Courses.js X

nesting-demo > src > Pages > JS Courses.js > [🔗] Courses

```
1  import React from "react";
2  import { Link, Outlet } from "react-router-dom";
3
4  const Courses = () => {
5    return (
6      <div className="Page">
7        <h1>You are in the Courses page!</h1>
8        <h3>URL: localhost:3000/courses</h3>
9        <div className="courses-nav">
10         <Link to="/courses/search">Search</Link>
11         <Link to="/courses/list">List</Link>
12       </div>
13       <Outlet />
14     </div>
15   );
16 };
17
18 export default Courses;
```

JS List.js X

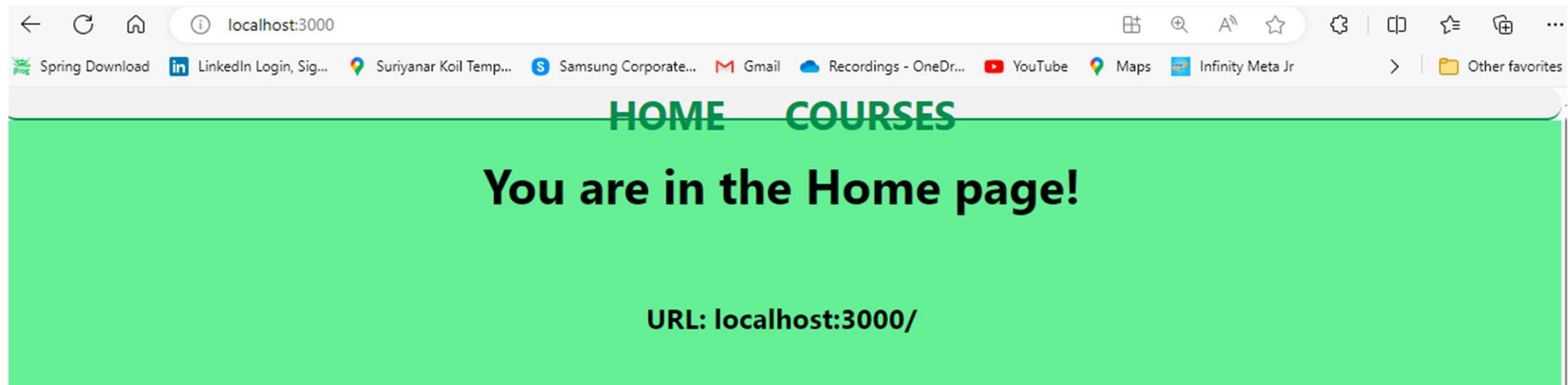
nesting-demo > src > Components > JS List.js > [🔗] default

```
1  import React from "react";
2
3  const List = () => {
4    return (
5      <div className="List">
6        <h2>You are inside the List Component</h2>
7        <h4>URL: localhost:3000/courses/list</h4>
8      </div>
9    );
10 };
11
12 export default List;
```


JS Search.js X

nesting-demo > src > Components > JS Search.js > [🔗] default

```
1  import React from "react";
2
3  const Search = () => {
4    return (
5      <div className="Search">
6        <h2>You are inside the Search Component</h2>
7        <h4>URL: localhost:3000/courses/search</h4>
8      </div>
9    );
10 };
11
12 export default Search;
```

Course Component

