



Day 60

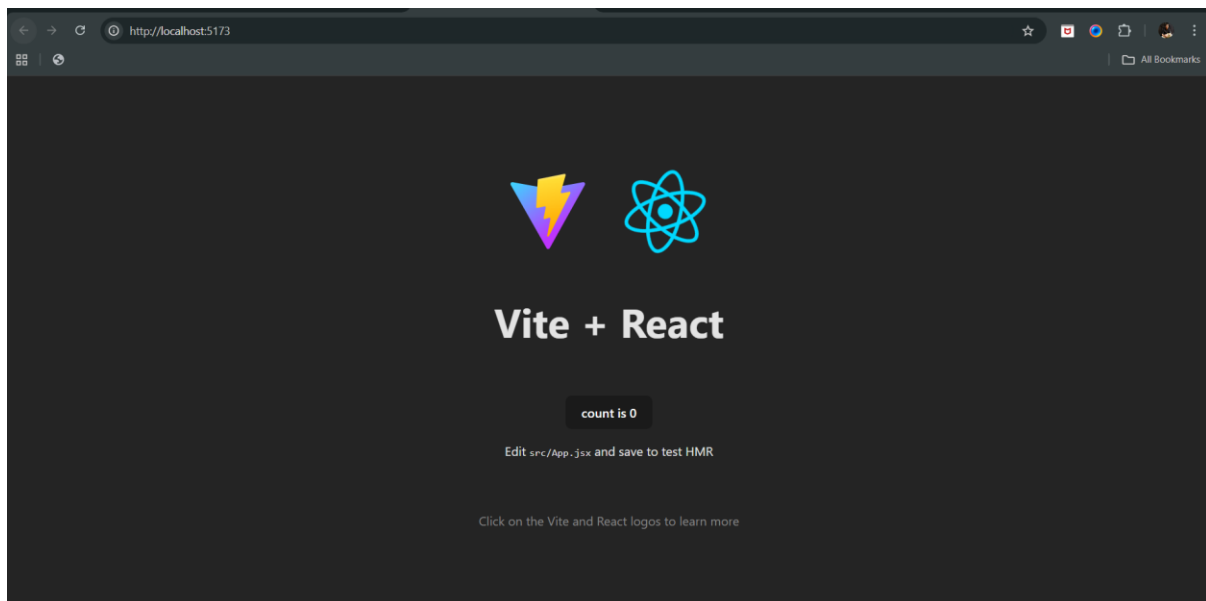
“Web Development + Security”

React Router: Routing in React:

What is React Router?

React Router is a library that allows navigation between different pages or views in a single-page React application (SPA) — without reloading the page. It handles the routing logic inside the browser, keeping your app fast and smooth.

To understand from the basics, we will first start the React + Vite as we are doing since last few videos:



Now, first before we start anything, we should know what's the issue with `<a>` tag that we need react router? Basically, when we click on the link of the `<a>` tag, the new page appears, but reloaded, in react router this reloading doesn't take place. Hence, used.

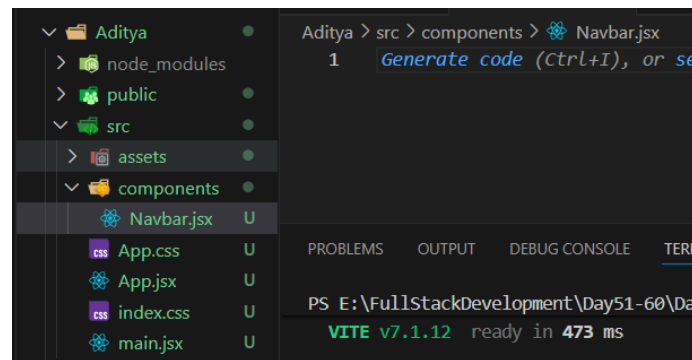
So, how to use it? Use the below command to install it:

```
PS E:\FullStackDevelopment\Day51-60\Day60\Aditya> npm i react-router-dom
added 4 packages, and audited 158 packages in 2s

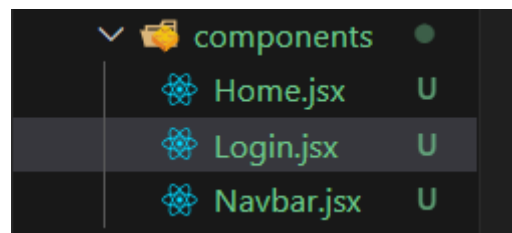
32 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
```

Now, to see the usage, let's first create a components folder and make Navbar.jsx inside it:

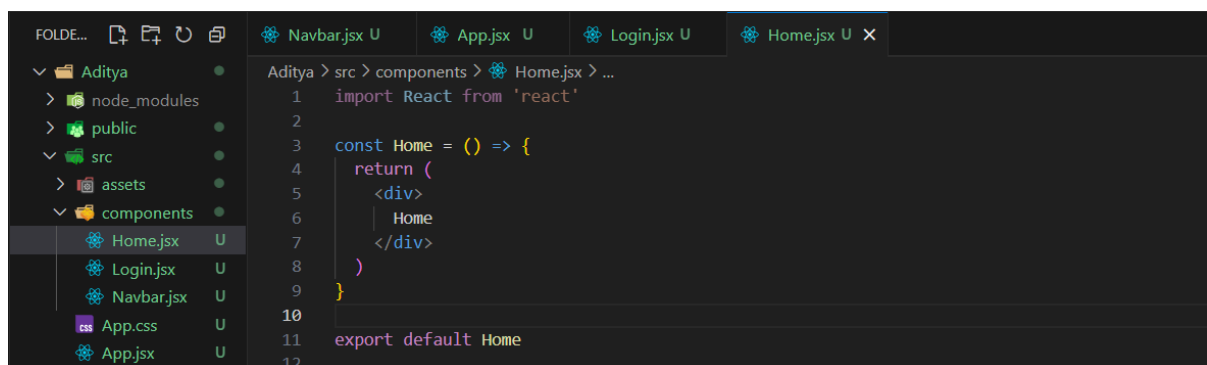


Also, we will add a home page, and for this we will create the Home.jsx in the components folder, and use it later in the App.jsx as the element.

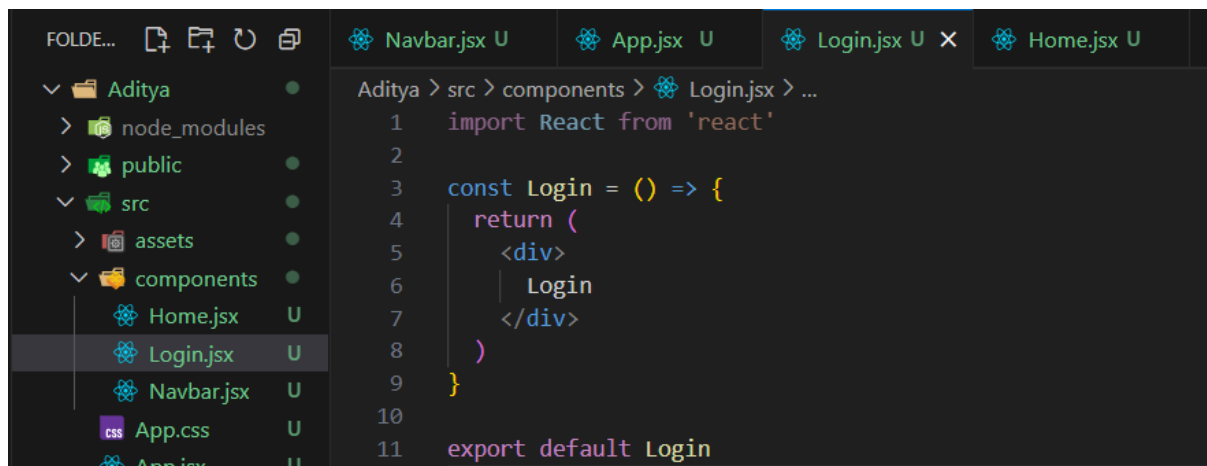


Now, code for each:

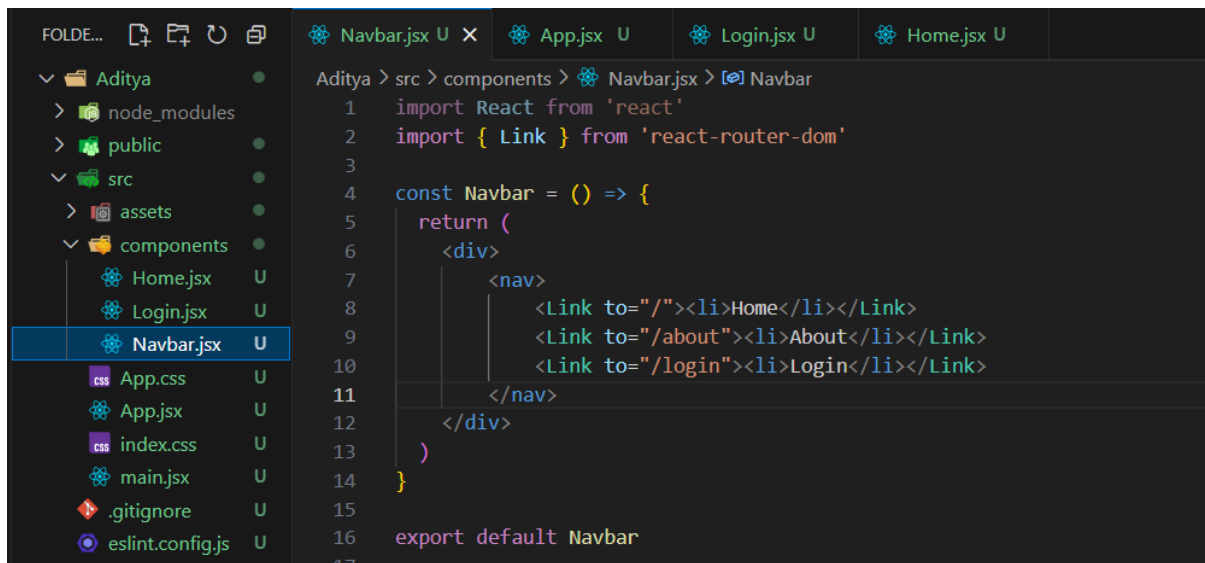
Home.jsx:



Login.jsx:

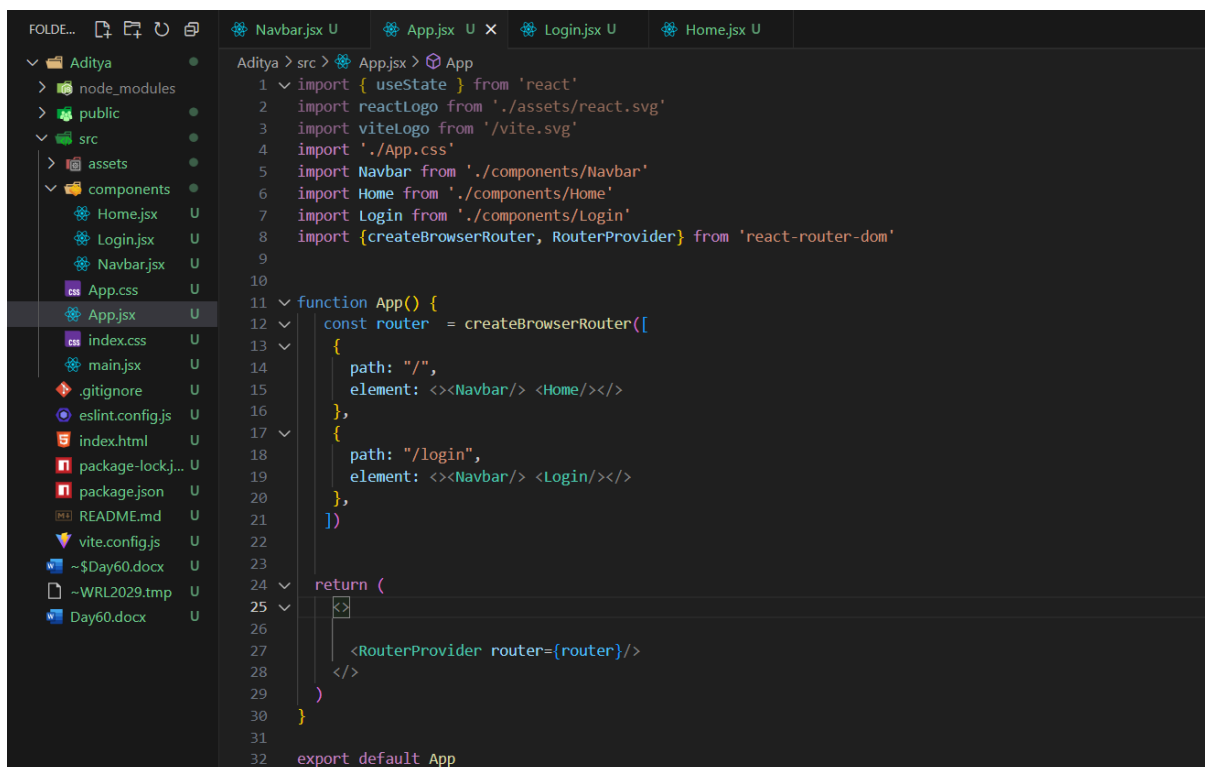


Navbar.jsx:



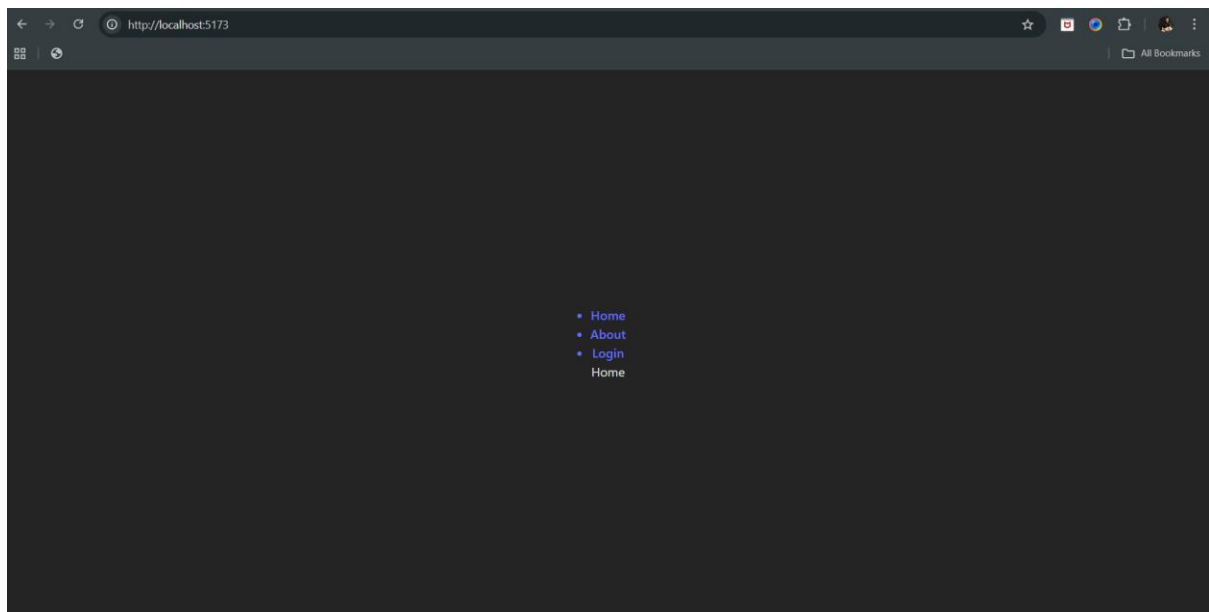
```
1 import React from 'react'
2 import { Link } from 'react-router-dom'
3
4 const Navbar = () => {
5   return (
6     <div>
7       <nav>
8         <Link to="/"><li>Home</li></Link>
9         <Link to="/about"><li>About</li></Link>
10        <Link to="/login"><li>Login</li></Link>
11      </nav>
12    </div>
13  )
14 }
15
16 export default Navbar
```

App.jsx:

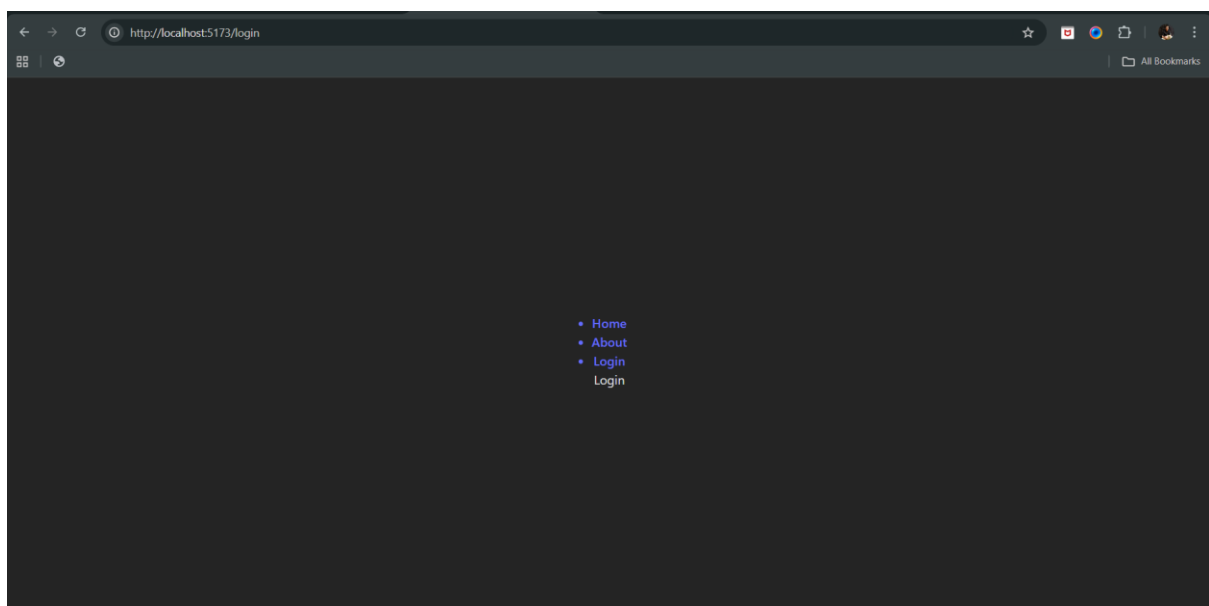


```
1 import { useState } from 'react'
2 import reactLogo from './assets/react.svg'
3 import viteLogo from '/vite.svg'
4 import './App.css'
5 import Navbar from './components/Navbar'
6 import Home from './components/Home'
7 import Login from './components/Login'
8 import { createBrowserRouter, RouterProvider } from 'react-router-dom'
9
10
11 function App() {
12   const router = createBrowserRouter([
13     {
14       path: "/",
15       element: <><Navbar/> <Home/></>
16     },
17     {
18       path: "/login",
19       element: <><Navbar/> <Login/></>
20     },
21   ])
22
23   return (
24     <>
25       <RouterProvider router={router}/>
26     </>
27   )
28 }
29
30 export default App
```

Output: at start



Output: when login was clicked, page don't reload.



--The End--