

EXPLORER ... node App.jsx Navbar.jsx X

src > components > Navbar.jsx > Navbar

```
1 import React from 'react'
2
3 const Navbar = () => {
4     return (
5         <div>
6             <nav>
7                 <a href="/"><li>Home</li></a>
8                 <a href="/"><li>About</li></a>
9                 <a href="/"><li>Contact</li></a>
10            </nav>

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 115> npm i react-router-dom
[.....] \ idealTree:Video 115: sill idealTree buildDeps



Vite + React Tutorial v6.22.0 | React Router

reactrouter.com/en/main/start/tutorial

YouTube Sigma Web Development GitHub - CodeWithHarr... Learn to code online - C... Els with Express

React Router

main

Router on the page.

Create and render a browser router in `main.jsx`

```
src/main.jsx
1 import * as React from "react";
2 import * as ReactDOM from "react-dom/client";
3 import {
4   createBrowserRouter,
5   RouterProvider,
6 } from "react-router-dom";
7 import "./index.css";
8
9 const router = createBrowserRouter([
10   {
11     path: "/",
12     element: <div>Hello world!</div>,
13   },
14 ]);
15
16 ReactDOM.createRoot(document.getElementById("root")).render(
17   <React.StrictMode>
18     <RouterProvider router={router} />
19   </React.StrictMode>
20 );
```

This first route is what we often call the "root route" since the rest of our routes will render inside of it. It will serve as the root layout of the UI, we'll have nested layouts as we get farther along.

The Root Route

Let's add the global layout for this app.

Create `src/routes` and `src/routes/root.jsx`

```
mkdir src/routes
touch src/routes/root.jsx
```

On this page

- Setup
- Adding a Router
- The Root Route
- Handling Not Found Errors
- The Contact Route UI
- Nested Routes
- Client Side Routing
- Loading Data
- Data Writes + HTML Forms
- Creating Contacts
- URL Params in Loaders
- Updating Data
- Updating Contacts with FormData
- Mutation Discussion
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- Index Routes
- Cancel Button
- URL Search Params and GET Submissions
- GET Submissions with Client Side Routing
- Synchronizing URLs to Form State
- Submitting Forms onChange



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The screenshot shows a React application structure in VS Code. The Explorer sidebar lists files such as node_modules, public, src, assets, components (Home.jsx, Login.jsx, Navbar.jsx), App.css, App.jsx, index.css, main.jsx, .eslintrc.cjs, .gitignore, index.html, package-lock.json, package.json, README.md, and vite.config.js. The App.jsx tab is active, displaying the following code:

```
src > App.jsx > App
1 import './App.css'
2 import Navbar from './components/Navbar'
3 import Home from './components/Home'
4 import Login from './components/Login'
5 import { createBrowserRouter, RouterProvider } from 'react-router-dom' ←
6
function App() {
  const router = createBrowserRouter([
    {
      path: "/",
      element: <Home/>
    },
    {
      path: "/login",
      element: <Login/>
    },
  ])
  return (
    <>
    <Navbar/>
    <RouterProvider router={router} /> ←
    </>
  )
}

export default App
```

Annotations in the code:

- A blue arrow points to the import statement for `createBrowserRouter` and `RouterProvider`.
- A pink arrow points to the creation of the `RouterProvider` instance.
- A blue arrow points to the usage of the `RouterProvider` component.



EXPLORER ... node App.jsx × About.jsx Login.jsx Home.jsx Navbar.jsx ×

VIDEO 115

> node_modules
> public
src
> assets
components
 About.jsx
 Home.jsx
 Login.jsx
 Navbar.jsx
App.css
App.jsx
index.css
main.jsx
.eslintrc.cjs
.gitignore
index.html
package-lock.json
package.json
README.md
vite.config.js

OUTLINE
TIMELINE
TASK EXPLORER

src > components > Navbar.jsx > Navbar

```
1 import React from 'react'
2
3 const Navbar = () => {
4
5   return (
6     <div>
7       <nav>
8         <a href="/"><li>Home</li></a>
9         <a href="/about"><li>About</li></a>
10        <a href="/login"><li>Login</li></a>
11      </nav>
12    </div>
13  )
14}
15
16 export default Navbar
17
```

Page Reloads here



LN 10, Col 43 Spaces: 4 UTF-8 CRL. ENG IN Subscr... Wed

24°C Partly sunny

EXPLORER ... node App.jsx About.jsx Login.jsx Home.jsx Navbar.jsx

VIDEO 115

> node_modules
> public
src
> assets
components
 About.jsx
 Home.jsx
 Login.jsx
 Navbar.jsx

src > components > Navbar.jsx > Navbar

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

No Page Reloads



Dimensions: Responsive ▾

562

x 934

47% ▾

No throttling ▾



Elements Console Sources Network Performance Security Memory Application Lighthouse Recorder Performance insights

Default levels ▾ No Issues 2 hidden

3 The above error occurred in the <Link> component:

chunk-MCEUSTYS.js?v=527c362b:14034

```
at LinkWithRef (http://localhost:5173/node_modules/.vite/deps/react-router-dom.js?t=1707909740533&v=527c362b:4765:5)
at nav
at div
at Navbar
at App
```

Consider adding an error boundary to your tree to customize error handling behavior.
Visit <https://reactjs.org/link/error-boundaries> to learn more about error boundaries.



✗ Uncaught TypeError: Cannot destructure property 'basename' of 'React2.useContext(...)' as it is null.
 at LinkWithRef (react-router-dom.js?...3&v=527c362b:4776:5)
 at renderWithHooks (chunk-MCEUSTYS.js?v=527c362b:12169:26)
 at updateForwardRef (chunk-MCEUSTYS.js?v=527c362b:14325:28)

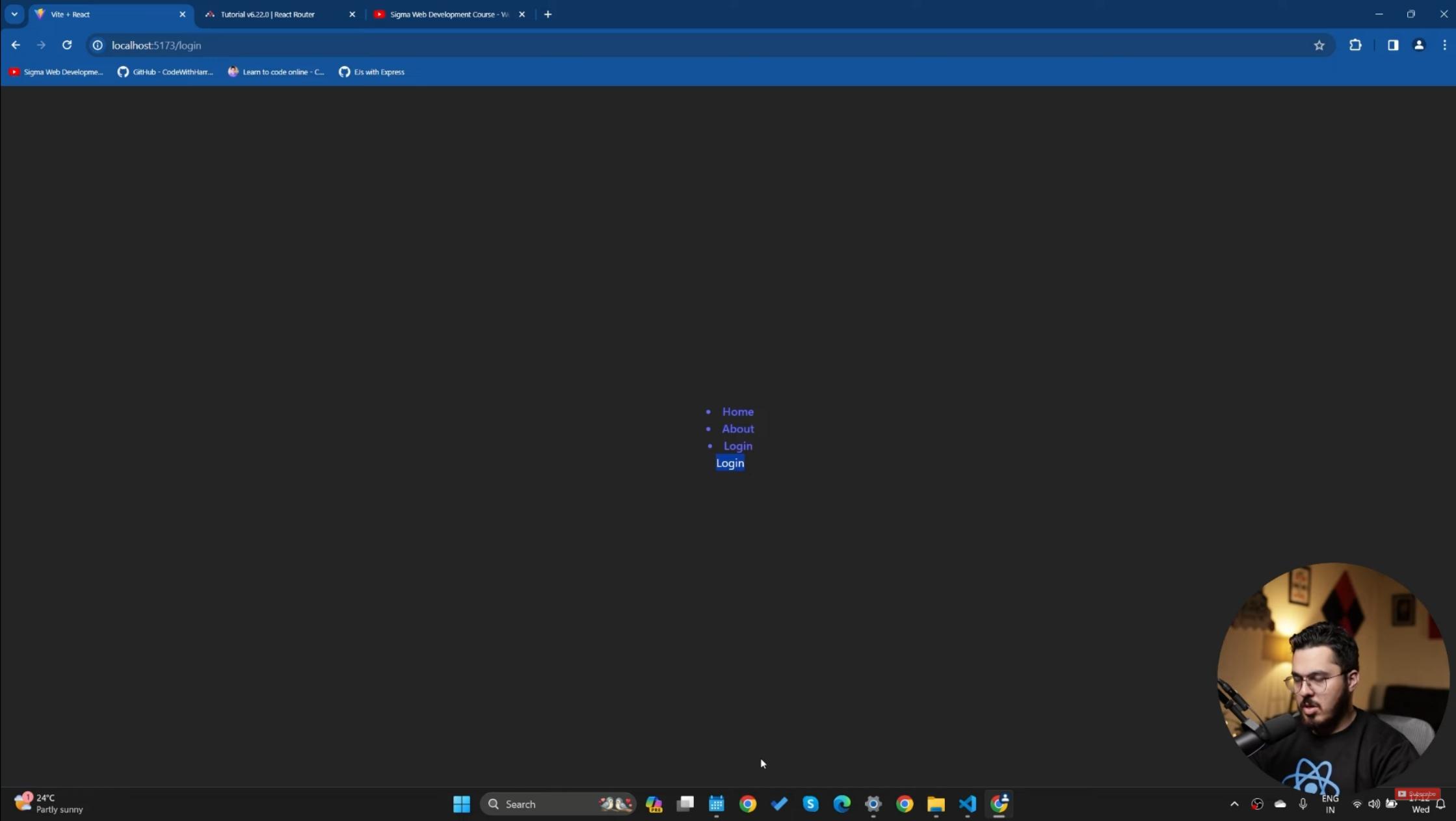
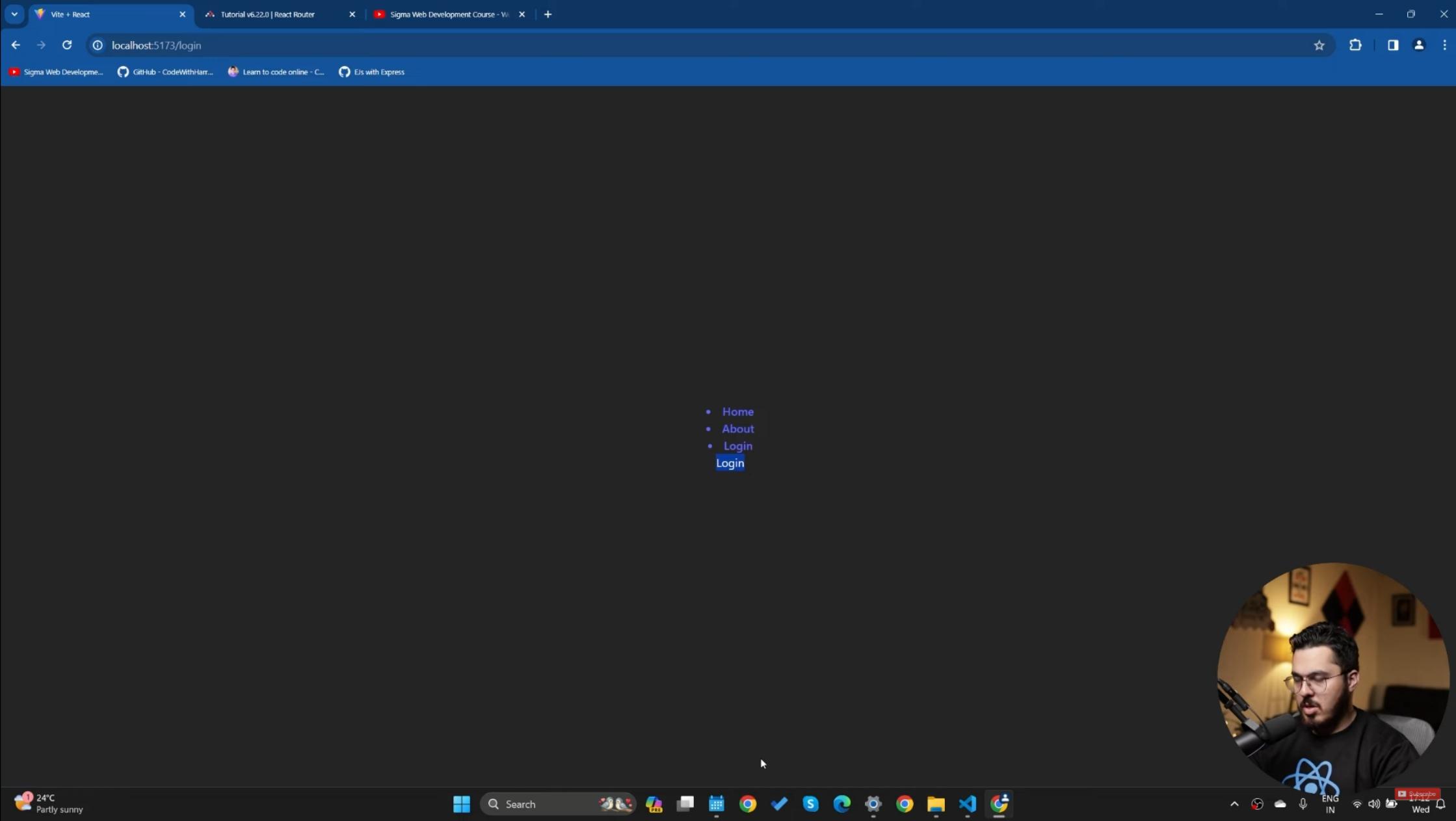
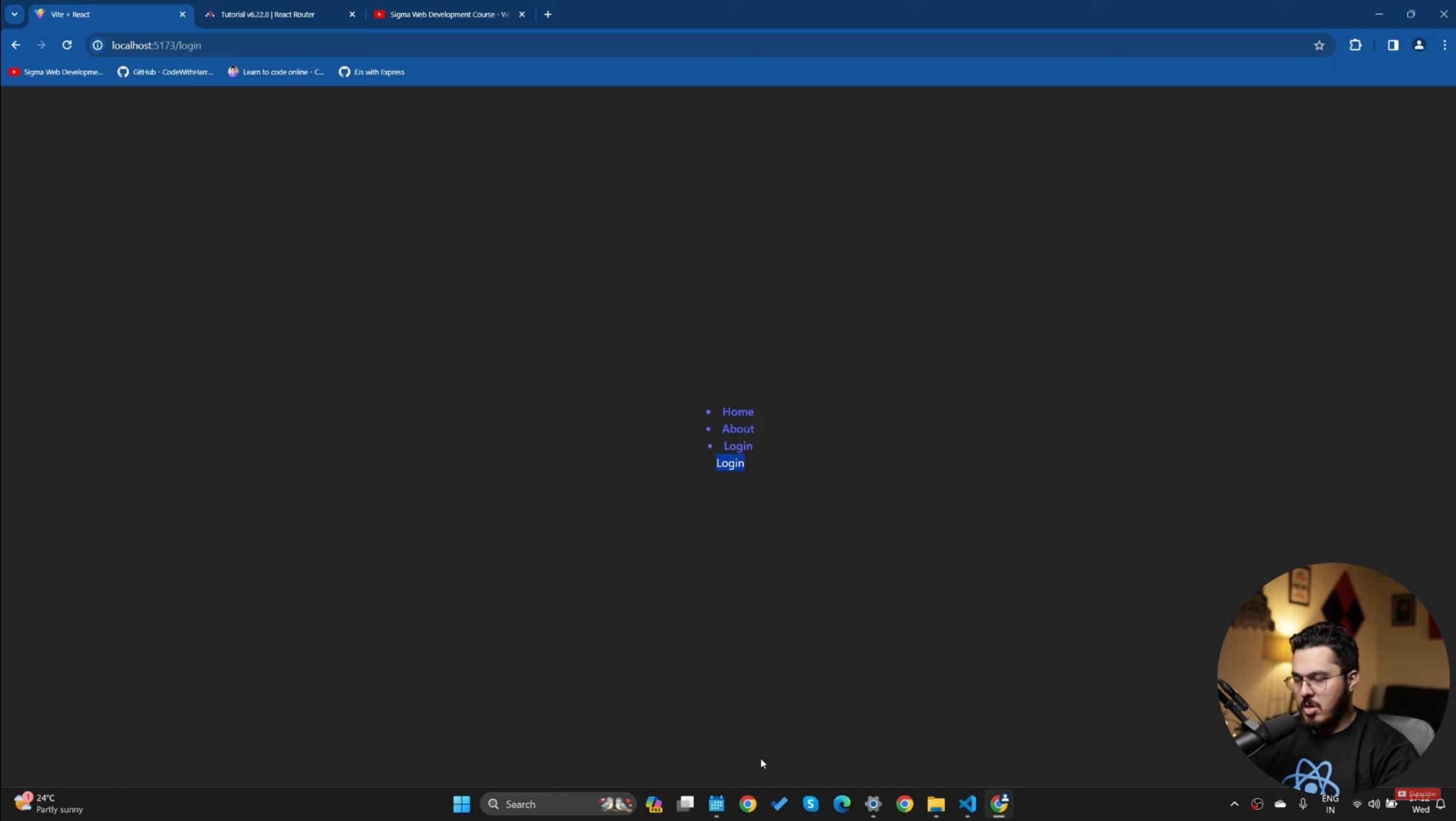
EXPLORER ... node App.jsx X main.jsx About.jsx Login.jsx Home.jsx Navbar.jsx ⌂ ...

src > App.jsx > App > router > element

```
7
8 function App() {
9   const router = createBrowserRouter([
10     {
11       path: "/",
12       element: <><Navbar /><Home /></>
13     },
14     {
15       path: "/login",
16       element: <><Navbar /><Login /></>
17     },
18     {
19       path: "/about",
20       element: <><Navbar /><About /></>
21     },
22   ])
23   return (
24     <>
25       <RouterProvider router={router} />
26     </>
27   )
28 }
29
30 }
31
32 export default App
33
```

We generally do it in main.jsx .. in this





EXPLORER ... node App.jsx User.jsx X main.jsx About.jsx Login.jsx Home.jsx ⌂ ...

src > components > User.jsx > [User]

```
1 import React from 'react'
2 import { useParams } from 'react-router-dom' ←
3
4 const User = () => {
5     const params = useParams() ←
6     return (
7         <div>
8             I am user {params.username} ←
9         </div>
10    )
11 }
12
13 export default User
14
```

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- > node_modules
- > public
- < src
- > assets
- < components
 - About.jsx
 - Home.jsx
 - Login.jsx
 - Navbar.jsx
 - User.jsx
- App.css
- App.jsx
- index.css
- main.jsx
- .eslintrc.cjs
- .gitignore
- index.html
- package-lock.json
- package.json
- README.md
- vite.config.js

> OUTLINE

> TIMELINE

> TASK EXPLORER



EXPLORER ...

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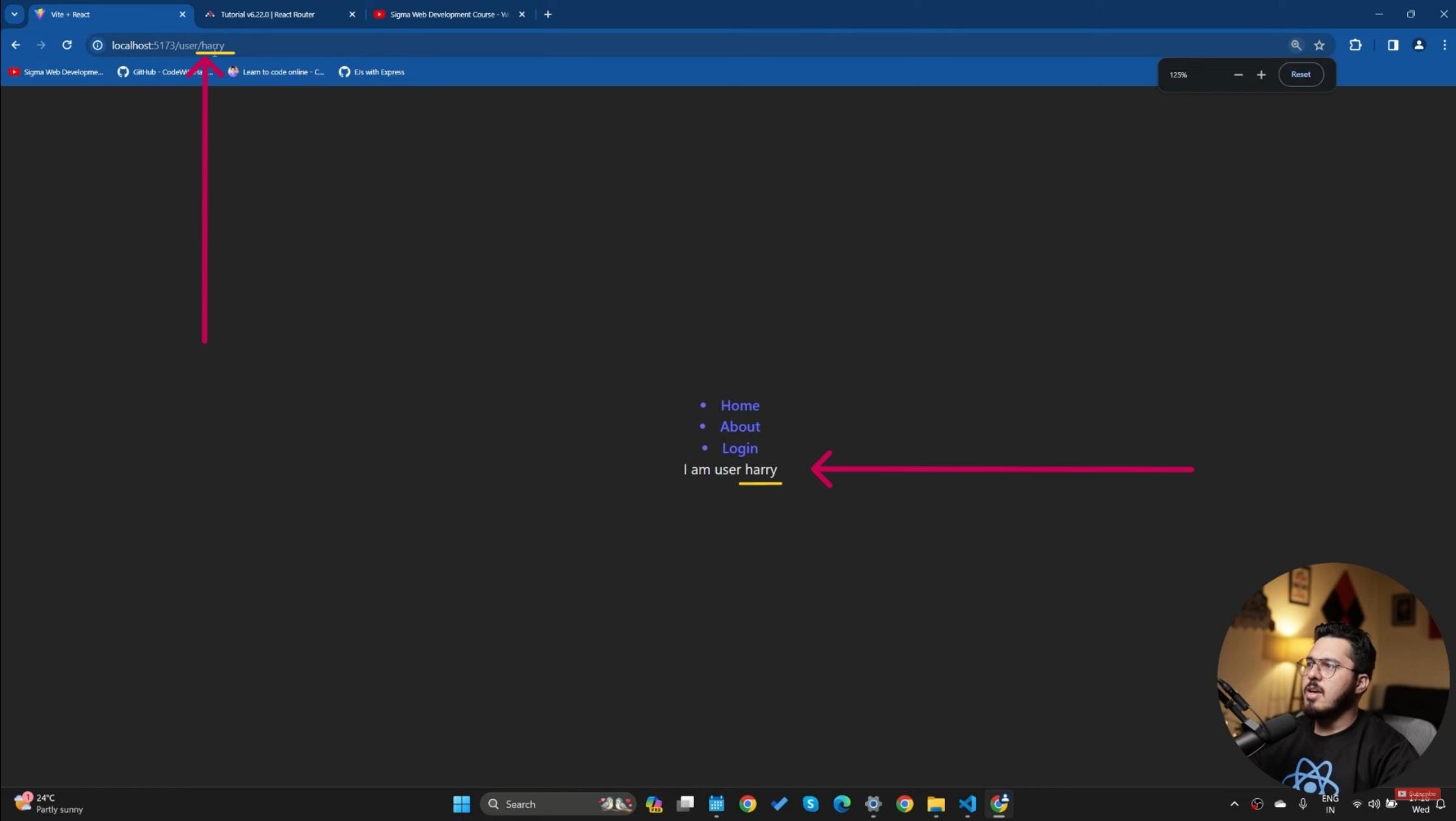
- > node_modules
- > public
- src
 - > assets
 - components
 - About.jsx
 - Home.jsx
 - Login.jsx
 - Navbar.jsx
 - User.jsx
 - App.css
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node App.jsx × User.jsx × main.jsx About.jsx Login.jsx Home.jsx

src > App.jsx > App > router > path

```
13     },
14     {
15         path: "/login",
16         element: <><Navbar /><Login /></>
17     },
18     {
19         path: "/about",
20         element: <><Navbar /><About /></>
21     },
22     {
23         path: "/user/:username", ←
24         element: <><Navbar /><User /></>
25     },
26 ],
27 return (
28     <>
29
30     <RouterProvider router={router} />
31 )
```





File Edit Selection View Go ... ← → ⚡ Video 115

EXPLORER ...

VIDEO 115

- > node_modules
- > public
- ✓ src
 - > assets
 - ✓ components
 - About.jsx
 - Home.jsx
 - Login.jsx
 - Navbar.jsx
 - User.jsx
 - App.css
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index.css User.jsx main.jsx About.jsx Login.jsx Home.jsx Navbar.jsx

src > components > Navbar.jsx > Navbar

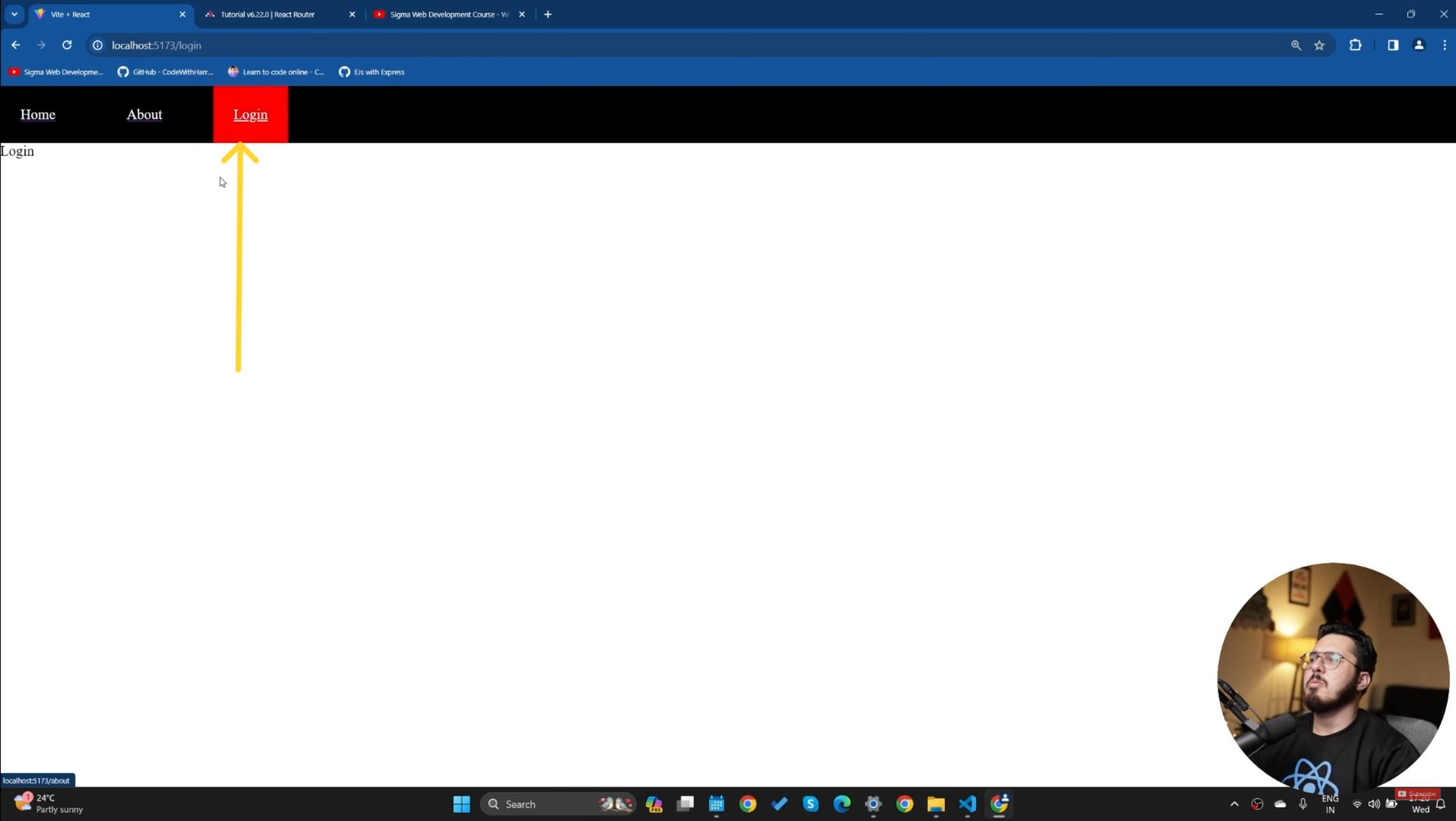
```
1 import React from 'react'
2 import { NavLink } from 'react-router-dom' ←
3
4 const Navbar = () => {
5
6   return (
7     <div>
8       <nav>
9         <NavLink className={({e})=>{return e.isActive?'red': "" }} to="/"><li>Home</li></NavLink>
10        <NavLink className={({e})=>{return e.isActive?'red': "" }} to="/about"><li>About</li></NavLink>
11        <NavLink className={({e})=>{return e.isActive?'red': "" }} to="/login"><li>Login</li></NavLink>
12      </nav>
13    </div>
14  )
15
16
17 export default Navbar
18
```

LN 11, COL 23 Spaces: 4 UTF-8 CRL ENG IN 24°C Partly sunny

Search

SSS

Ln 11, Col 23 Spaces: 4 UTF-8 CRL ENG IN 24°C Partly sunny



Login

Home

About

Login



localhost:5173/about



Search



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reactrouter.com/en/main/start/tutorial

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React Router main

Made by Remix

Getting Started

- Feature Overview
- Tutorial
- Examples
- FAQs
- Main Concepts

Upgrading

- Migrating to RouterProvider
- Upgrading from v5
- Migrating from @reach/router

Routers

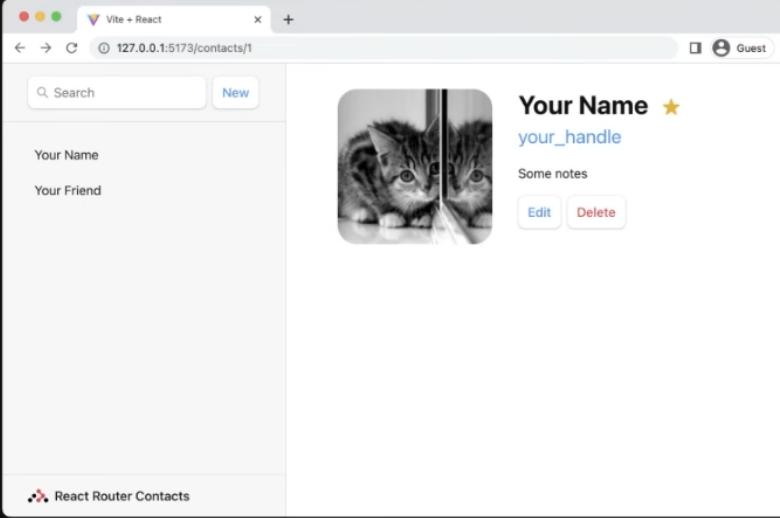
- Picking a Router
- createBrowserRouter
- createHashRouter
- createMemoryRouter
- createStaticHandler
- createStaticRouter
- RouterProvider
- StaticRouterProvider

Router Components

- BrowserRouter
- HashRouter
- MemoryRouter
- NativeRouter

Nested Routes

We want the contact component to render *inside* of the `<Root>` layout like this.



The screenshot shows a browser window titled "Vite + React" with the URL "127.0.0.1:5173/contacts/1". The page displays a contact form with fields for "Your Name" (with a star icon) and "your_handle". Below the form is a placeholder for "Some notes". At the bottom left is a "React Router Contacts" footer. On the right side of the page, there is a sidebar with the title "On this page" and a list of links related to nested routes and other React Router topics.

We do it by making the contact route a *child* of the root route.

👉 Move the contacts route to be a child of the root route

```
const router = createBrowserRouter([
  {
    path: "/",
    element: <Root />,
  },
  {
    path: "/contact",
    element: <Contact />
  }
])
```

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Your Name ★
your_handle
Some notes
Edit Delete

On this page

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