

Evolve Full Stack Developer

React Router



Repo for Slides

Get them from GIT

https://github.com/EvolveU-FSD/c11-FunWithUrls.git



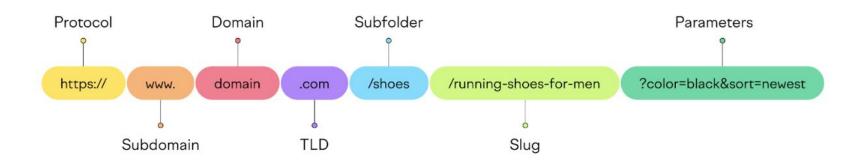


Big Picture Idea - What is React Router?

- What is a url and what are it's parts? Why are they important?
- Show how to use different parts of the URL in react projects
 - Subfolders
 - Error
 - Dynamic routes
 - Load another component
 - Ready Query Parameters
 - Change query parameters



Parts of a URL Structure





Working with Subfolders

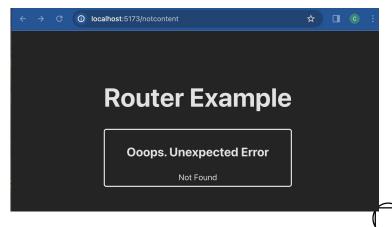
Subfolders are just a path to a different component. React-router-dom

```
import { createBrowserRouter, RouterProvider } from 'react-router-dom'
const router = createBrowserRouter ([
  { path: "/", element: <h2>Main Page</h2>},
   path: "/content", element: <h2>My Content</h2>},
function App() {
  return (
                                                                                   C (i) localhost:5173/content
                                                                                                                               ☆ □ ○
     <h1>Router Example</h1>
     <div style={{border: "2px solid white", borderRadius: '5px', padding: '5px</pre>
       <RouterProvider router={router} />
     </div>
   </>
                                                                                             Router Example
export default App
                                                                                                       My Content
 npm create vite@latest 1-ReactRouter
```

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Adding some error handling

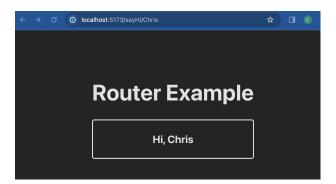
Now that we know we can control routes, let's leave a way to handle route errors.





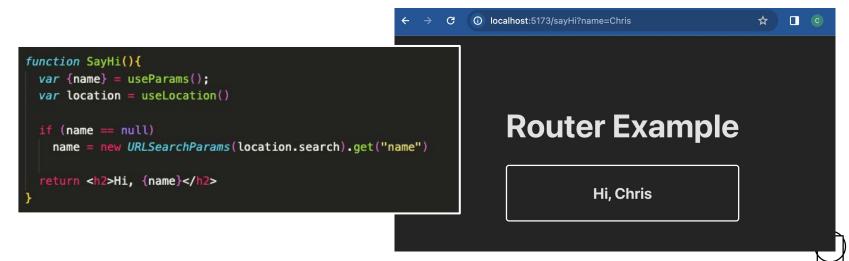
Dealing with slugs (dynamic routes)

```
function SayHi(){
  const {name} = useParams();
  return <h2>Hi, {name}</h2>
}
```





Now to pull query params





Firestore

```
import { createBrowserRouter, RouterProvider, useRouteError, useParams, useLocation } from 'react-router-dom'
const router = createBrowserRouter ([
  { path: "/", element: <h2>Index</h2>, errorElement: <ErrorPage />},
  { path: "/foo", element: <h2>foo</h2>},
  { path: "/sayHi/:name", element: <SayHi />},
  { path: "/sayHi", element: <SayHi />},
                                                                                         C (i) localhost:5173/GetName
  { path: "/GetName", element: <Redirect />}
                                                                                                                                ☆ □ C
 function Redirect(){
                                                                                                Router Example
   var [name, setName] = useState('')
   function redirectToSayHi(){
     window.location.href = `\\SayHi\\${name}`
   return <div>
                                                                                                 ☆ □ ⓒ
       <input type="text" value={name} onChange={(e)=>setName(e.target.value)} />
       <button onClick={redirectToSayHi}</pre>
         style={{backgroundColor: 'gray', border: "2px solid white"}}>
                                                                                                           Router Example
         Say HI</button>
   </div>
```



Hi, Chris

Change Your URL in place

```
function ReactiveUrl(){
  var location = useLocation()
var inboundName = new URLSearchParams(location.search).get("name")
                                                                                         (i) localhost:5173/Meet?name=Chr
 var [name, setName] = useState(inboundName);
  useEffect(()=>{
                                                                                             Router Example
   const searchParams = new URLSearchParams(window.location.search);
   searchParams.set('name', name);
   window.history.replaceState(null, null, `?${searchParams.toString()}`)
                                                                                                  Your name: Chr
  }, [name])
                                                                                                     well hello, Chr
  return <div>
    Your name:
   <input type="text" value={name} onChange={e=>setName(e.target.value)} />
   <h2>well hello, {name}</h2>
  </div>
```



Still have more questions?



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