**Day 76- react router dom**

**Npm I react router dom**

**App.js**

import { useState } from 'react'

import reactLogo from './assets/react.svg'

import viteLogo from '/vite.svg'

import './App.css'

function App() {

  return (

    <>

    <h2>react router dom tutorial</h2>

    </>

  )

}

export default App

**index.js**

import React from "react";

import ReactDOM from "react-dom/client";

import App from "./App.jsx";

import "./index.css";

import { BrowserRouter } from "react-router-dom";

ReactDOM.createRoot(document.getElementById("root")).render(

  <React.StrictMode>

    <BrowserRouter>

      <App />

    </BrowserRouter>

  </React.StrictMode>

);

**Create some pages** [**home.js,about.js,products.js**](http://home.js,about.js,products.js) **inside src>pages folder**

**App.js**

import { Routes,Route } from 'react-router-dom'

import { Home } from './pages/Home';

import { About } from './pages/About';

import { Products } from './pages/Products'

function App() {

  return (

    <>

    <h2>react router dom tutorial</h2>

    <Routes>

      <Route path='/' element={<Home />}/>

      <Route path='/about' element={<About />}/>

      <Route path='/products' element={<Products />}/>

    </Routes>

    </>

  );

}

export default App

**now check by gng to /, /about, /products endpoint by executing**

**instead of gng to routes manually can add buttons or link tag like navigation tab**

**src>components>Navbar.jsx**

import React from 'react'

export const Navbar = () => {

  return (

    <ul>

        <li>home</li>

        <li>about</li>

        <li>products</li>

    </ul>

  )

}

**Instead of adding anchor tags – can use link tag**

**Instead of href – we use to attribute**

import { Link } from 'react-router-dom'

export const Navbar = () => {

  return (

    <ul>

        <li>

            <Link to='/'>Home</Link>

        </li>

        <li>

            <Link to='/about'>About</Link>

        </li>

        <li>

            <Link to='/products'>Products</Link>

        </li>

    </ul>

  )

}

**Call navbar component in app.js**

function App() {

  return (

    <>

    <header>

      <Navbar />

    </header>

    <h2>react router dom tutorial</h2>

    <Routes>

      <Route path='/' element={<Home />}/>

      <Route path='/about' element={<About />}/>

      <Route path='/products' element={<Products />}/>

    </Routes>

    </>

  );

}

export default App

**can add styling to ul and li**

**include it in App.css or create and keep in Navbar.css**

ul{

  display: flex;

  justify-content: center;

  align-items: center;

  list-style-type:none;

}

li{

  margin-right: 20px;

  font-size: 20px;

}

**Now check execute and check navigation**

**Can use <NavLink > instead of <Link>, can add classname,id like attributes to NavLink**

**Can style it**

**useNavigation hook:**

[**https://youtu.be/162Lm52CTBM?si=BxaEUJh0gHaKdBdI**](https://youtu.be/162Lm52CTBM?si=BxaEUJh0gHaKdBdI)

**in home page adding link to about page**

**home.jsx**

import React from 'react'

import { Link } from 'react-router-dom'

export const Home = () => {

  return (

    <>

    <div>Home</div>

    <Link to='/about'>About</Link>

    </>

  )

}

Similarly in about page add link to home page

**About.jsx**

import React from 'react'

export const About = () => {

  return (

    <>

    <div>About</div>

    <Link to='/'>Home</Link>

    </>

  )

}

In home page, comment link and create a button

Const var=useNavigate()

Now with help of this variable var we can navigate to different pages

**Home.jsx**

import React from 'react'

import { Link, useNavigate } from 'react-router-dom'

export const Home = () => {

    const var1=useNavigate()

    function func1(){

        var1("/about")

    }

  return (

    <>

    <div>Home</div>

    {/\* <Link to='/about'>About</Link> \*/}

    <button onClick={func1}>About</button>

    </>

  )

}

In this way also we can navigate using useNavigate hook

From react router 6 version , usehostory and uselocation is replaced by use navigate

So usenavigate can be placed anywhere in code, not only inside li or anchor tags

You use navigate when switching pages as a result of another action.

For example: you have a recipe app where a user can create new recipes. After creating the recipe you want to show the new page for recipe. In that case you would do something like this (simplified code).

const createRecipe = async (data) => {

const newRecipe = await storeRecipeInDB(data);

navigate(`/recipes/${newRecipe.id}`);

}