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Experiment 4c

Aim :- To develop a single page application using React Router

Theory :-

An SPA (Single-page application) is a web app implementation that loads only a single web document, and then updates the body content of that single document.

The components get reloaded,

React Router :-

It is a proper solution to create a React app that does not include page routing.

To install react router DOM

>>>> npm install react-router-dom

Main component of React Router is

1. Browser Router
2. Routes
3. Route
4. Link

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

<Route path="/" element = {<About/>}></Route>

Conclusion :- In this experiment, the experiment - 4a is extended and implemented.

Code :-

index.js

```
import React from "react";
import {
  Nav,
  NavLogo,
  NavLink,
  Bars,
  NavMenu,
  NavBtn,
  NavBtnLink,
} from "../NavbarElements";
function Navbar() {
  return (
    <>
```

```

    <Nav>
      <NavLogo to="/">
        Logo
      </NavLogo>
      <Bars />

      <NavMenu>
        <NavLink
          to="/"
          activeStyle={{ color: 'black' }}
        >
          Home
        </NavLink>
        <NavLink
          to="/about"
          activeStyle={{ color: 'black' }}
        >
          About
        </NavLink>
        <NavLink
          to="/contact"
          activeStyle={{ color: 'black' }}
        >
          Contact
        </NavLink>
        <NavLink
          to="/signin"
          activeStyle={{ color: 'black' }}
        >
          Sign In
        </NavLink>
        <NavBtn>
          <NavBtnLink to="/sign-up">Sign Up</NavBtnLink>
        </NavBtn>
      </NavMenu>
    </Nav>
  </>
);
}

home.js
export default Navbar;const Home = () => {
  return (

```

```
    <h1>Welcome to my website!</h1>

  );
};

export default Home;
```

app.js

```
import './App.css';
import { BrowserRouter, Routes, Route } from "react-router-dom";
import Navbar from "./components/Navbar";
```

```
import Home from './pages';
import About from './pages/about';
import Contact from './pages/contact';
import SignUp from './pages/signup';
import SignIn from './pages/signin';

function App() {
  return (
    <BrowserRouter>
      <Navbar />
      <Routes>
        <Route path="/" element={<Home />} />
        <Route path="/about" element={<About />} />
        <Route path="/contact" element={<Contact />} />
        <Route path="/signin" element={<SignIn />} />
        <Route path="/sign-up" element={<SignUp />} />
      </Routes>
    </BrowserRouter>
  );
}

export default App;
```

about.js

```
const About = () => {
  return (
    <div
      style={{
        display: 'flex',
        justifyContent: 'center',
        alignItems: 'center',
        height: '10vh'
      }}
    >
```

```

    >
    <h1>About Page</h1>
  </div>
);
};

export default About;

```

signup.js

```

const SignUp = () => {
  return (
    <div>
      <h1>Sign Up and get started</h1>
    </div>
  )
}

export default SignUp;

```

contact.js

```

const Contact = () => {
  return (
    <div
      style={{
        display: 'flex',
        justifyContent: 'center',
        alignItems: 'center',
        height: '100vh'
      }}
    >
      <h1>Contact Us</h1>
    </div>
  );
};

export default Contact;

```

signin.js

```

const SignIn = () => {
  return (
    <div>
      <h1>Sign In</h1>

```

```
    </div>
  )
}

export default SignIn;
```

Output :-

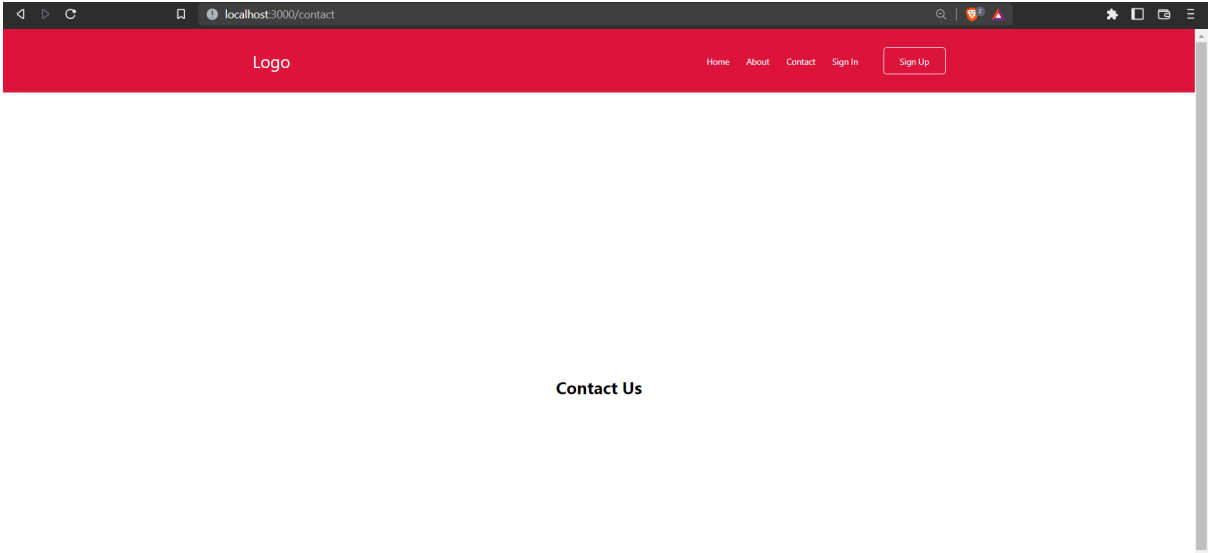


Welcome to my website!



About Page





Sign In



Sign Up and get started

