Experiment 8

<u>Aim:</u> Create React Sidebar Navigation Menu for a webpage. Implement the concept of React Hooks for backward compatibility and faster user experience.

1) In components folder, make *Navbar.js*, and design the Navbar

```
import React, { useState } from "react";
import * as FaIcons from "react-icons/fa";
import * as AiIcons from "react-icons/ai";
import { Link } from "react-router-dom";
import { SidebarData } from "./SidebarData.js";
import "../css/Nav.css";
import { IconContext } from "react-icons";
function Navbar() {
 const [sidebar, setSidebar] = useState(false);
 const showSidebar = () => setSidebar(!sidebar);
 return (
   <>
     <IconContext.Provider value={{ color: "#fff" }}>
       <div className="navbar">
        <Link to="#" className="menu-bars">
          <FaIcons.FaBars onClick={showSidebar} />
        </Link>
        <span class="rollnumber">21BIT005 : React Sidebar</span>
       </div>
       <nav className={sidebar ? "nav-menu active" : "nav-menu"}>
         <Link to="#" className="menu-bars">
              <AiIcons.AiOutlineClose />
            </Link>
          {SidebarData.map((item, index) => {
            return (
              <Link to={item.path}>
                 {item.icon}
                 <span>{item.title}</span>
                </Link>
              );
          })}
        </nav>
     </IconContext.Provider>
   </>
 );}
export default Navbar;
```

2) Give CSS to Navbar

```
.navbar {
  background-color: #060b26;
                                                  .nav-text a {
                                                    text-decoration: none;
  height: 80px;
  display: flex;
                                                    color: #f5f5f5;
  justify-content: start;
                                                    font-size: 18px;
                                                    width: 95%;
  align-items: center;
}
                                                    height: 100%;
                                                    display: flex;
.menu-bars {
  margin-left: 2rem;
                                                    align-items: center;
  font-size: 2rem;
background: none;
                                                    padding: 0 16px;
                                                    border-radius: 4px;
                                                  }
.nav-menu {
                                                  .nav-text a:hover {
                                                    background-color: #1a83ff;
 background-color: #060b26;
 width: 250px;
height: 100vh;
                                                  .nav-menu-items {
  display: flex;
                                                    width: 100%;
  justify-content: center;
  position: fixed;
                                                  .navbar-toggle {
                                                    background-color: #060b26;
  top: 0;
  left: -100%;
                                                    width: 100%;
  transition: 850ms;
                                                    height: 80px;
                                                    display: flex;
                                                    justify-content: start;
.nav-menu.active {
                                                    align-items: center;
  left: 0;
  transition: 350ms;
                                                  span {
                                                    margin-left: 16px;
.nav-text {
  display: flex;
  justify-content: start;
                                                  .rollnumber{
                                                    padding-left: 450px;
  align-items: center;
  padding: 8px 0px 8px 16px;
                                                     color: white;
  list-style: none;
                                                    font-weight: bold;
  height: 60px;
                                                    font-size: x-large;
}
```

3) Make a Sidebar.js in components folder, to design the sidebar

```
import React from "react";
                                               title: "Products",
import * as FaIcons from "react-
                                               path: "/products",
icons/fa";
import * as AiIcons from "react-
                                               icon: <FaIcons.FaCartPlus />,
icons/ai";
                                               cName: "nav-text",
import * as IoIcons from "react-
                                            },
icons/io";
export const SidebarData = [
                                               title: "Team",
                                               path: "/team",
  {
    title: "Home",
                                               icon: <IoIcons.IoMdPeople />,
    path: "/",
                                               cName: "nav-text",
                                            },
    icon: <AiIcons.AiFillHome />,
    cName: "nav-text",
                                               title: "Messages",
  },
                                               path: "/messages",
  {
    title: "Reports",
                                               icon: <FaIcons.FaEnvelopeOpenText</pre>
    path: "/reports",
    icon: <IoIcons.IoIosPaper />,
                                               cName: "nav-text",
    cName: "nav-text",
                                          ];
  },
```

4) Make a pages folder, and add the pages of the sidebar

```
JS home.js U •
src > pages > JS home.js > ...
  1 import React from "react";
      const Home = () => {
  3
        return (
          <div style={{ textAlign: 'center' }}>
  5
           <h1>This is the Home page ♠</h1>
  6
  7
          </div>
  8
        );
  9
      };
 10
      export default Home;
```

```
JS product.js U •
src > pages > JS product.js > ...
  1 import React from "react";
      const Products = () => {
        return (
          <div style={{ textAlign: 'center' }}>
          <h1>This is the Products page $\( (\h1 \)
  5
          </div>
  6
  7
       );
  8
      };
  9
 10
      export default Products;
```

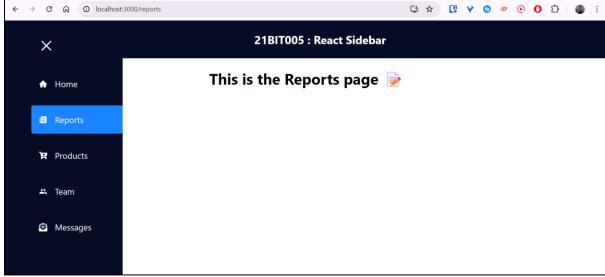
```
✓ pagesJS home.jsJS product.jsJS report.js
```

5) Update the App.js file

```
JS App.js M X
src > JS App.js > ...
  1 import React from "react";
      import { BrowserRouter as Router, Route, Routes } from "react-router-dom";
      import Navbar from "./components/Navbar";
  3
     import Home from "./pages/home";
     import Reports from "./pages/report";
  6
      import Products from "./pages/product";
  7
      import "./App.css"
  8
  9
      function App() {
        return (
 10
           <div>
 11
 12
            <Router>
 13
              <Navbar />
 14
              <Routes>
                <Route path="/" element={<Home />} />
 15
                 <Route path="/reports" element={<Reports />} />
 16
                <Route path="/products" element={<Products />} />
 17
              </Routes>
 18
             </Router>
 19
 20
           </div>
 21
        );
 22
 23
 24
      export default App;
```

Output







Discussions: This experiment demonstrated the creation of a React sidebar navigation menu, enhancing webpage accessibility. Utilizing React Hooks ensures faster user interaction and maintains compatibility across different React versions.