Lab Experiment:8

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

App.js

```
import React from "react";
import { BrowserRouter as Router, Route, Switch } from 'react-router-dom';
import Navbar from "./components/Navbar";
import Home from "./pages/home";
import Reports from "./pages/report";
import Products from "./pages/product";
import "./App.css"
function App() {
 return (
  <div>
   <Router>
    <Navbar/>
    <Routes>
     <Route path="/" element={<Home />} />
     <Route path="/reports" element={<Reports />} />
     < Route path="/products" element={< Products />} />
    </Routes>
   </Router>
  </div>
 );
export default App;
```

app.css

```
.App {
    text-align: center;
}

.App-logo {
    height: 40vmin;
    pointer-events: none;
}

@ media (prefers-reduced-motion: no-preference) {
    .App-logo {
        animation: App-logo-spin infinite 20s linear;
    }
}
```

```
.App-header {
 background-color: #282c34;
 min-height: 100vh;
 display: flex;
 flex-direction: column;
 align-items: center;
justify-content: center;
 font-size: calc(10px + 2vmin);
 color: white;
.App-link {
color: #61dafb;
@keyframes App-logo-spin {
  transform: rotate(Odeg);
 }
 to {
  transform: rotate(360deg);
```

components/sidebarData.js

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

```
icon: <IoIcons.IoMdPeople />,
    cName: "nav-text",
},
{
    title: "Messages",
    path: "/messages",
    icon: <FaIcons.FaEnvelopeOpenText />,
    cName: "nav-text",
},
];
```

components/Navbar.js

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

```
);
})}

</ri>

</nav>

);
}
export default Navbar;
```

components/Nav.css

```
.navbar {
background-color: #060b26;
height: 80px;
display: flex;
justify-content: start;
 align-items: center;
.menu-bars {
 margin-left: 2rem;
font-size: 2rem;
background: none;
.nav-menu {
background-color: #060b26;
width: 250px;
height: 100vh;
display: flex;
justify-content: center;
 position: fixed;
 top: 0;
 left: -100%;
 transition: 850ms;
.nav-menu.active {
left: 0;
transition: 350ms;
.nav-text {
display: flex;
justify-content: start;
align-items: center;
 padding: 8px 0px 8px 16px;
list-style: none;
```

```
height: 60px;
.nav-text a {
 text-decoration: none;
 color: #f5f5f5;
 font-size: 18px;
 width: 95%;
 height: 100%;
 display: flex;
 align-items: center;
 padding: 0 16px;
 border-radius: 4px;
.nav-text a:hover {
 background-color: #1a83ff;
.nav-menu-items {
 width: 100%;
.navbar-toggle {
 background-color: #060b26;
 width: 100%;
 height: 80px;
 display: flex;
 justify-content: start;
 align-items: center;
span {
 margin-left: 16px;
.rollnumber{
 padding-left: 450px;
 color: white;
 font-weight: bold;
 font-size: x-large;
```

Pages/Home.js

```
);
};
export default Home;
```

pages/products.js

pages/report.js

output:

