REACTJS (https://reactjs.org/docs/getting-started.html)

You'll need to have Node >= 14.00 and npm >= 5.6 on your computer

To create a project, run in your terminal or command prompt,

```
    npx create-react-app my-app
    cd my-app
    npm start
```

Create a new folder and name it as pages inside src folder.

Create the following files and folder inside src/pages folder,

1. Login (folder) ✓ src . √ pages a. Login.js ∨ Login b. Login.css # Login.css U **2. Register** (folder) JS Login.js U a. Register.js ∨ Register • b. Register.css # Register.css U

Js Register.js

Login.js

Register.js

^{*}my-app is the application name of your project

To use the **Login component** or **Register component**, you must import the component (see line 2) and you can use it by using the **Login** or **Register** tags.

Modify App.js

Create a login page by modifying the **Login.css** and **Login.js** for styles. Install **React Hook Form** (https://react-hook-form.com/get-started) or run the npm command using your command prompt (make sure that it is inside your project) npm install react-hook-form

Login.css

```
1. .main-container {
2. display: flex;
      flex-direction: column;
3.
4.
      justify-content: center;

    align-items: ce
    height: 100vh;

      align-items: center;
7. }
8.
9. .form-container {
10. padding: 4rem 2rem;
11.
      border: 1px solid #ccc;
12. border-radius: 0.5rem;
13. display: flex;
14. flex-direction: column;
15.
      justify-content: center;
16. align-items: center;
17.}
18. .form-container > div {
19. margin-bottom: 12px;
20.}
21.
22. .form-group {
23. display: flex;
24.}
25.
26. .form-group label {
27. width: 70px;
28. margin-right: 8px;
29. text-align: left;
30. }
31. .errors {
32. color: red;
33. font-size: 12px;
34.}
35. .submit-container {
36. margin-top: 12px;
37. text-align: center;
38. }
39. .register-container {
40. text-align: center;
41.}
```

Login.js

```
    import { useForm } from "react-hook-form";
    import "./Login.css";

3.
4. function Login() {
5.
      const {
6.
        register,
7.
        handleSubmit,
8.
        formState: { errors },
9.
      } = useForm({
10.
        defaultValues: {
          email: "",
11.
         password: "",
12.
13.
        },
14.
     });
15.
      const onSubmit = (data) => {
16.
        console.log(data, apiResponse);
17.
      };
18. return (
        <div className="Login">
19.
          <div className="main-container">
20.
21.
            <h3>Login</h3>
22.
            <form onSubmit={handleSubmit(onSubmit)}>
23.
              <div className="form-container">
24.
                <div>
25.
                  <div className="form-group">
26.
                     <label>E-mail:</label>
27.
                     <input type="text" {...register("email", { required: true })} />
28.
                  </div>
29.
                  {errors.email && (
30.
                     <span className="errors">This field is required</span>
31.
                  )}
32.
                </div>
33.
                <div>
34.
                  <div className="form-group">
35.
                     <label>Password:</label>
36.
                     <input
                       type="password"
37.
                       {...register("password", { required: true })}
38.
39.
                     />
40.
                  </div>
                  {errors.password && (
41.
                    <span className="errors">This field is required</span>
42.
43.
                  )}
44.
                </div>
45.
                <div className="submit-container">
46.
                  <button type="submit">Login</button>
47.
48.
                <div className="register-container">
49.
50.
                     <small>Register</small>
51.
                  </a>
52.
                </div>
53.
              </div>
54.
            </form>
55.
          </div>
56.
        </div>
57.
     );
58.}
59.
60. export default Login;
```

To submit the data to the API, install the **axios** (https://axios-http.com/docs/intro) or run using your cmd npm install axios.

Modify Login.js, import axios to your component by placing it below `import "./Login.css" `.

```
import axios from "axios";
```

Hook the API login request using axios inside of onSubmit function.

```
26. const onSubmit = async (data) => {
27. await axios({
        method: "post",
28.
29.
        url: "user/login",
30.
        headers: { "Access-Control-Allow-Origin": "*" },
31.
32. })
33.
        .then((res) \Rightarrow {
34.
          localStorage.setItem("accessToken", res.data.access_token);
35.
         navigate("/main/dashboard");
36.
        })
37.
      .catch((e) => {
38.
          alert(e.response.data.message);
39.
        });
40.};
```

To navigate from Login page to Register page, install React Router by running

npm install react-router-dom.

Modify Login.js and add href="/register" to anchor tag

Modify **App.js**, we need to import the *createBrowserRouter* and *Router* from react-router-dom. Import also the **Login component (Login.js)** and **Register component (Register.js)**.

App.js

```
    import "./App.css";

import { createBrowserRouter, RouterProvider } from "react-router-dom";
3. import Login from "./pages/Login/Login";
import Register from "./pages/Register/Register";
5.
6. const router = createBrowserRouter([
7.
     {
       path: "/",
8.
9.
       element: <Login />,
10. },
    {
11.
     path: "/register",
12.
13.
       element: <Register />,
14. },
15.]);
16.
17. function App() {
18. return (
19.
        <div className="App">
20.
         <RouterProvider router={router} />
21.
        </div>
22. );
23. }
24.
25. export default App;
```

Modify Register.js

```
1. import { useForm } from "react-hook-form";
2. import "./Register.css";
import axios from "axios";
4. import { useNavigate } from "react-router-dom";
5.
6. function Register() {
7.
     const navigate = useNavigate();
8.
     const {
9.
        register,
10.
      handleSubmit,
11.
       formState: { errors },
12. } = useForm({
13.
        defaultValues: {
         email: "", password: ""
14.
15.
         firstName: ""
16.
         middleName: ""
17.
         middleName: "", lastName: "",
18.
         contactNo: "",
19.
20. },
21.
     });
22.
    const onSubmit = async (data) => {
23.
        const apiResponse = await axios({
24.
         method: "post",
25.
          url: "user/register",
26.
         data,
27.
         headers: {
28.
          "Access-Control-Allow-Origin": "*",
29.
            "Access-Control-Allow-Credentials": true,
```

```
30.
      },
31.
        })
32.
          .then((res) => {
33.
            alert(res.data.message);
34.
            navigate("/");
            return res;
35.
36.
          })
37.
          .catch((e) => {
38.
            alert(e.response.data.message);
39.
          });
40.
     };
41.
     return (
42.
        <div className="Register">
43.
          <div className="main-container">
44.
            <h3>Register</h3>
45.
            <form onSubmit={handleSubmit(onSubmit)}>
46.
              <div className="form-container">
47.
                <div>
48.
                  <div className="form-group">
49.
                    <label>E-mail:</label>
50.
                    <input type="text" {...register("email", { required: true })} />
51.
                  </div>
52.
                  {errors.email && (
53.
                    <span className="errors">This field is required</span>
54.
                  )}
55.
                </div>
                <div>
56.
                  <div className="form-group">
57.
58.
                    <label>Password:</label>
59.
                    <input
60.
                      type="password"
61.
                      {...register("password", { required: true })}
                    />
62.
63.
                  </div>
64.
                  {errors.password && (
65.
                    <span className="errors">This field is required</span>
66.
                  )}
67.
                </div>
68.
69.
70.
                  <div className="form-group">
71.
                    <label>First name:</label>
72.
73.
                      type="firstName"
74.
                      {...register("firstName", { required: true })}
75.
                    />
76.
                  </div>
77.
                  {errors.firstName && (
                    <span className="errors">This field is required</span>
78.
                  )}
79.
80.
                </div>
81.
82.
83.
                  <div className="form-group">
84.
                    <label>Middle name:</label>
85.
86.
                      type="middleName"
87.
                      {...register("middleName", { required: true })}
                    />
88.
                  </div>
89.
90.
                  {errors.middleName && (
```

```
91.
                    <span className="errors">This field is required</span>
92.
                  )}
93.
                </div>
94.
95.
                <div>
96.
                  <div className="form-group">
97.
                    <label>Last name:</label>
98.
                    <input</pre>
                      type="lastName"
99.
100.
                             {...register("lastName", { required: true })}
                            />
101.
102.
                          </div>
103.
                          {errors.lastName && (
                            <span className="errors">This field is required</span>
104.
105.
                         )}
106.
                        </div>
107.
108.
109.
                          <div className="form-group">
110.
                            <label>Contact no:</label>
111.
                              type="contactNo"
112.
                              {...register("contactNo", { required: true })}
113.
                            />
114.
                          </div>
115.
116.
                          {errors.contactNo && (
117.
                            <span className="errors">This field is required</span>
118.
                         )}
119.
                        </div>
120.
121.
                        <div className="submit-container">
122.
                         <button type="submit">Register</button>
123.
124.
                        <div className="login-container">
125.
                          <a href="/">
126.
                            <small>Back to Login
127.
                          </a>
128.
                        </div>
129.
                      </div>
130.
                    </form>
131.
                 </div>
132.
               </div>
133.
             );
134.
135.
136.
           export default Register;
```

Register.css

```
1. .main-container {
2. display: flex;
      flex-direction: column;
3.

    justify-content: center;

5.
      align-items: center;
6. height: 100vh;
7. }
8.

    .Register .form-container {
    width: 360px;

11.
      padding: 4rem 2rem;
12. border: 1px solid #ccc;
13.
      border-radius: 0.5rem;
14. display: flex;
      flex-direction: column;
15.
16. align-items: stretch;
17. }
18. .Register .form-container > div {
19. margin-bottom: 12px;
20.}
21.
22. .Register .form-group {
23. display: flex;
24. }
25.
26. .Register .form-group label {
27. flex-grow: 1;
28. margin-right: 8px;
29. text-align: left;
30.}
31. .Register .form-group input {
32. flex-grow: 2;
33.}
34.
35. .errors {
36. color: red;
37. font-size: 12px;
38.}
39. .submit-container {
40. margin-top: 12px;
41. text-align: center;
42.}
43. .login-container {
44. text-align: center;
45.}
```

Create a folder, js and css with filename **Main** inside **pages** folder. Inside **Main** folder, create a new component (folder, js and css files) for **Dashboard** and **Products**

```
Main
Dashboard
Dasboard.js
Dashboard...
Products
Products.css
Products.js
Main.js
```

Main.css

```
1. .Main {
2. display: flex;
3.
     overflow: hidden;
4. max-height: 100vh;
5. }
6. .Main .container {
7.
     display: flex;
8. width: 100vw;
9. }
10. .Main .container .outlet {
11. flex-grow: 3;
12. padding: 1rem;
13.}
14. .Main .container .navigation {
15. background-color: aliceblue;
16. padding-top: 40px;
17. height: 100vh;
18.}
19. .Main .container .navigation ul {
20. list-style: none;
21. overflow: hidden;
22. padding: 0;
23. margin: 0;
24.}
26. .Main .container .navigation ul li {
27. padding: 10px 80px 10px 20px;
28.}
29. .Main .container .navigation ul li.active,
30. .Main .container .navigation ul li:hover {
31. background: #ccc;
32.}
33. .Main .container .navigation ul li a {
34. text-decoration: none;
35.}
36.
37. .Main .container .navigation ul li.logout {
38. cursor: pointer;
39.}
```

Main.js

```
1. import { useEffect } from "react";
2. import { Outlet, useNavigate } from "react-router-dom";
import "./Main.css";
4.
5. function Main() {
6. const accessToken = localStorage.getItem("accessToken")
7.
     const navigate = useNavigate();
8.
     const handleLogout = () => {
       localStorage.removeItem("accessToken");
9.
       navigate("/");
10.
11.
     };
12.
13.
     useEffect(() => {
14.
    if (
         accessToken === undefined ||
15.
         accessToken === "" ||
16.
17.
         accessToken === null
18.
       ) {
19.
         handleLogout();
20.
      }
21.
     }, []);
22.
     return (
23.
       <div className="Main">
24.
         <div className="container">
           <div className="navigation">
25.
26.
             <l
27.
               <
                 <a href="/main/dashboard">Dashboard</a>
28.
29.
               30.
               <
31.
                 <a href="/main/products">Products</a>
32.
               33.
               34.
                 <a onClick={handleLogout}>Logout</a>
35.
               36.
             37.
           </div>
38.
           <div className="outlet">
39.
             <Outlet />
40.
           </div>
41.
         </div>
42.
       </div>
43.
     );
44. }
45.
```

Dashboard.js

```
    import "./Dashboard.css";

2.
3. function Dashboard() {
4. return (
5.
       <div className="Dashboard">
6.
         <h1>Dashboard</h1>
7.
          <div className="content">Welcome!</div>
     </div>
8.
9.
10.}
11.
12. export default Dashboard;
```

Products.js

```
    import "./Products.css";

2.
3. function Products() {
4. return (
       <div className="Products">
5.
6.
       <h1>Products</h1>
7.
         <div className="content">Products page</div>
8.
       </div>
9.
     );
10.}
12. export default Products;
```

Modify App.js and add the Main component to the router

```
9. const router = createBrowserRouter([
10. {
11.
       path: "/",
12.
       element: <Login />,
13.
     },
14.
15.
       path: "/register",
       element: <Register />,
16.
17.
     },
18.
19.
       path: "/main",
20.
       element: <Main />,
21.
       children: [
22.
23.
            path: "/main/dashboard",
24.
            element: <Dashboard />,
25.
26.
27.
            path: "/main/products",
            element: <Products />,
28.
29.
          },
30.
       ],
31.
     },
32.]);
```