Index.js

import { createRoot } from "react-dom/client";

import App from "./App";

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

import AuthContextProvider from "./Context/AuthContext";

const rootElement = document.getElementById("root");

const root = createRoot(rootElement);

root.render(

<AuthContextProvider>

<BrowserRouter>

<App />

</BrowserRouter>

</AuthContextProvider>

);

App.js

import AllRoutes from "./Routes/AllRoutes";

import "./styles.css";

export default function App() {

return (

<div className="App">

<AllRoutes />

</div>

);

}

// authentication: reqres.in

Component

Loader.jsx

PrivateRoute.jsx

ProductCard.jsx

ProductsTable.jsx

Loader.jsx

function Loader(){

return <h3 data-testid="loading-container">...Loading</h3>

}

export default Loader;

PrivateRoute.jsx

import { useContext } from "react";

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

import { Authcontext } from "../Context/AuthContext";

function PrivateRoute({ children }) {

// eslint-disable-next-line no-unused-vars

const { authState, loginUser, logoutUser } = useContext(Authcontext);

if (!authState.isAuth) {

return <Navigate to={"/login"} />;

}

return children;

}

export default PrivateRoute;

ProductCard.jsx

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

export default function ProductCard({ brand, category, price, id }) {

return (

<tr data-testid="item">

<td>{id}</td>

<td>

{/\* // add Link here and keep the data-testid="brand" on Link tag \*/}

<Link to={`/product/${id}`} data-testid="brand">

{brand}

</Link>

</td>

<td data-testid="category">{category}</td>

<td data-testid="price">{price}</td>

</tr>

);

}

ProductsTable.jsx

import ProductCard from "./ProductCard";

function ProductsTable({ data }) {

console.log(data);

return (

<table border="1px">

<thead>

<tr>

<th>Sno</th>

<th>Brand</th>

<th>Category</th>

<th>Price</th>

</tr>

</thead>

<tbody>

{/\* map through the data \*/}

{data.map((item) => {

return (

<ProductCard

key={item.id}

id={item.id}

brand={item.brand}

category={item.category}

price={item.price}

/>

);

})}

</tbody>

</table>

);

}

export default ProductsTable;

context

AuthContextProvider

import { createContext, useState } from "react";

export const Authcontext = createContext();

function AuthContextProvider({ children }) {

const [authState, setauthState] = useState({

isAuth: false,

token: null,

});

const loginUser = (token) => {

setauthState({ isAuth: true, token: token });

};

const logoutUser = () => {

setauthState({ isAuth: false, token: null });

};

return (

<Authcontext.Provider value={{ loginUser, logoutUser, authState }}>

{children}

</Authcontext.Provider>

);

}

export default AuthContextProvider;

Routes

AllRoutes.jsx

import { Route, Routes } from "react-router-dom";

import Home from "./Home";

import Login from "./Login";

import Dashboard from "./Dashboard";

import SingleProductPage from "./SingleProductPage";

import PrivateRoute from "../Components/PrivateRoute";

function AllRoutes() {

return (

<div>

<Routes>

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

<Route path="/login" element={<Login />}></Route>

<Route

path="/dashboard"

element={

<PrivateRoute>

<Dashboard />

</PrivateRoute>

}

></Route>

<Route path="/product/:id" element={<SingleProductPage />}></Route>

</Routes>

</div>

);

}

export default AllRoutes;

Dashboard.jsx

import { useContext, useEffect, useState } from "react";

import { Authcontext } from "../Context/AuthContext";

import ProductsTable from "../Components/ProductsTable";

import axios from "axios";

import Loader from "../Components/Loader";

function Dashboard() {

const { logoutUser, authState } = useContext(Authcontext);

const [data, setData] = useState([]);

const [loading, setLoading] = useState(false);

useEffect(() => {

setLoading(true);

axios .get( "https://dbioz2ek0e.execute-api.ap-south-1.amazonaws.com/mockapi/get-tech-products"

)

.then((res) => {

console.log(res.data.data);

setData(res.data.data);

setLoading(false);

})

.catch((err) => console.log(err));

}, []);

return loading ? (

<Loader />

) : ( <div>

<h3>Dashboard</h3>

<div>

<button data-testid="logout-btn" onClick={logoutUser}>

Logout

</button>

<p>

Token:

<b data-testid="user-token">{authState.token}</b>

</p>

</div>

<div style={{ display: "flex", justifyContent: "center" }}>

{/\* Products table \*/}

<ProductsTable data={data} />

</div>

</div>

);

}

export default Dashboard;

Home.jsx

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

function Home() {

return (

<div>

<Link to="/login">

<h3 data-testid="login-link">Login Page</h3>

</Link>

<Link to="/dashboard">

<h3 data-testid="home-link">Home</h3>

</Link>

</div>

);

}

export default Home;

Login.jsx

import axios from "axios";

import { useContext, useState } from "react";

import { Link, useNavigate } from "react-router-dom";

import { Authcontext } from "../Context/AuthContext";

function Login() {

const [email, setmail] = useState("");

const [password, setPassword] = useState("");

const { loginUser, authState } = useContext(Authcontext);

console.log(authState);

const navigate = useNavigate();

const handlesubmit = (e) => {

e.preventDefault();

let userdata = {

email,

password,

};

axios

.post("https://reqres.in/api/login", userdata)

.then((res) => {

loginUser(res.data.token);

navigate("/dashboard");

})

.catch((err) => {

console.log(err);

});

};

return (

<div>

<form data-testid="login-form" onSubmit={handlesubmit}>

<div>

<label>

Email

<input

onChange={(e) => setmail(e.target.value)}

data-testid="email-input"

type="email"

placeholder="email"

/>

</label>

</div>

<div>

<label>

Password

<input

onChange={(e) => setPassword(e.target.value)}

data-testid="password-input"

type="text"

placeholder="password"

/>

</label>

</div>

<div>

<input data-testid="form-submit" type="submit" value="SUBMIT" />

</div>

</form>

<div>

<Link to="/">Go Back</Link>

</div>

</div>

);

}

export default Login;

SingleProductPage.jsx

/\* eslint-disable jsx-a11y/alt-text \*/

import axios from "axios";

import { useEffect, useState } from "react";

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

function SingleProductPage() {

const { id } = useParams();

const [data, setData] = useState({});

console.log(id);

useEffect(() => {

axios

.get(

`https://dbioz2ek0e.execute-api.ap-south-1.amazonaws.com/mockapi/get-tech-products/${id}`

)

.then((res) => {

console.log(res.data.data);

setData(res.data.data);

})

.catch((err) => console.log(err));

// eslint-disable-next-line react-hooks/exhaustive-deps

}, [data]);

return (

<div data-testid="products-container">

<div>

<h3 data-testid="product-brand">{data.brand}</h3>

</div>

<div>

<img src={data.img} data-testid="product-image" />

</div>

<div data-testid="product-category">{data.category}</div>

<div data-testid="product-details">{data.details}</div>

<div data-testid="product-price">{data.price}</div>

</div>

);

}

export default SingleProductPage;

style.css

.App {

font-family: sans-serif;

text-align: center;

}

Package.json

"dependencies": {

"@testing-library/jest-dom": "^5.17.0",

"@testing-library/react": "^13.4.0",

"@testing-library/user-event": "^13.5.0",

"axios": "^1.7.2",

"react": "^18.3.1",

"react-dom": "^18.3.1",

"react-router-dom": "^6.24.0",

"react-scripts": "5.0.1",

"web-vitals": "^2.1.4"

},