Praktik 8 Lanjutan

Pada praktik ini Anda akan mempelajari tentang penerapan ProtectedRoute sederhana dengan implementasi halaman login dan logout.

Langkah 1 : Buat Project

npm create vite@lates praktik-8-protected-routes

npm install

npm install react-router-dom

cd praktik-8-protected-routes

npm run dev

Langkah 2 : pages/Dashboard.jsx

```jsx
import React from 'react';

const Dashboard = () => {
    return (
        <div>
            <h1>Dashboard</h1>
            <p>Welcome to your dashboard!</p>
        </div>
    );
}

export default Dashboard;
```

Langkah 3 : pages/Profile.jsx

```jsx
import React from "react";

const Profile = () => {
    const username = localStorage.getItem("username");

    return (
        <div>
            <h1>Profile Page</h1>
            <p>Welcome, {username}!</p>
        </div>
    );
}

export default Profile;
```

Langkah 4 : pages/Login.jsx

```jsx
import React, { useState } from "react";
import { useNavigate } from "react-router-dom";

const Login = () => {
    return (
        <>
            <div>
                <h1>Login Page</h1>
                <p>Please enter your credentials to log in.</p>
            </div>
            <div>
                <FormLogin />
            </div>
        </>
    );
}

const FormLogin = () => {
    const [username, setUsername] = useState("");
    const [password, setPassword] = useState("");
    const navigate = useNavigate();

    const handleUsernameChange = (e) => {
        setUsername(e.target.value);
    }

    const handlePasswordChange = (e) => {
        setPassword(e.target.value);
    }

    const handleSubmit = (e) => {
        e.preventDefault();
        // Handle login logic here
        if (username && password) {
            localStorage.setItem("isAuthenticated", "true");
            localStorage.setItem("username", username);
            alert("Login successful!");
            navigate("/");
        } else {
            alert("Please enter username and password.");
        }
    }

    return (
        <form onSubmit={handleSubmit}>
            <div>
                <label htmlFor="username">Username:</label>
                <input type="text" id="username" name="username" value={username} onChange=
{handleUsernameChange} />
            </div>
            <div>
                <label htmlFor="password">Password:</label>
                <input type="password" id="password" name="password" value={password}
```

```jsx
                <input type="password" id="password" name="password" value={password}
onChange={handlePasswordChange} />
            </div>
            <button type="submit">Login</button>
        </form>
    )
}

export default Login;
```

Langkah 5 : pages/Logout.jsx

```jsx
import React from 'react';
import { Navigate } from 'react-router-dom';

const Logout = () => {
    // Clear authentication status
    localStorage.removeItem("isAuthenticated");
    return <Navigate to="/login" />;
}

export default Logout;
```

Langkah 6 : components/Layout.jsx

```jsx
import React from 'react';
import { Outlet } from "react-router-dom";
import Nav from './Nav';

const Layout = () => {
    return (
        <div>
            <header>
                <h1>My Application</h1>
                <Nav />
            </header>
            <main>
                <Outlet />
            </main>
            <footer>
                <p>&copy; 2025 My Application</p>
            </footer>
        </div>
    );
}

export default Layout;
```

Langkah 7 : components/Nav.jsx

```jsx
import React from 'react';
import { Link } from 'react-router-dom';

const Nav = () => {
    const isAuthenticated = localStorage.getItem("isAuthenticated") === "true";
    const ulStyle = {
        listStyleType: "none",
        display: "flex",
        gap: "10px",
        padding: 0,
    }
    return (
        <nav>
            <ul style={ulStyle}>
                <li><Link to="/">Dashboard</Link></li>
                <li><Link to="/profile">Profile</Link></li>
                <li>
                    {isAuthenticated ? (
                        <Link to="/logout">Logout</Link>
                    ) : (
                        <Link to="/login">Login</Link>
                    )}
                </li>
            </ul>
        </nav>
    );
}

export default Nav;
```

Langkah 8 : components/ProtectedRoute.jsx

```jsx
import React from 'react';
import { Navigate } from 'react-router-dom';

const ProtectedRoute = ({ children }) => {
    const isAuthenticated = localStorage.getItem("isAuthenticated") === "true";

    if (!isAuthenticated) {
        return (
            <Navigate to="/login" replace />
        );
    }

    return children;
}

export default ProtectedRoute;
```

Langkah 9 : App.jsx

```jsx
import React from "react";
import { BrowserRouter, Routes, Route } from "react-router-dom";
import Layout from "./components/Layout";
import ProtectedRoute from "./components/ProtectedRoute";
import Dashboard from "./pages/Dashboard";
import Profile from "./pages/Profile";
import Login from "./pages/Login";
import Logout from "./pages/Logout";

const App = () => {
  return (
    <BrowserRouter>
      <Routes>
        <Route path="/" element={
          <ProtectedRoute>
            <Layout />
          </ProtectedRoute>
        }>
          <Route index element={<Dashboard />} />
          <Route path='/profile' element={<Profile />} />
          <Route path='/logout' element={<Logout />} />
        </Route>
        <Route path='/login' element={<Login />} />
      </Routes>
    </BrowserRouter>
  );
}

export default App;
```

hapus kode import './index.css' pada file main.jsx