

Source Code:

/db/user.json

```
Pertemuan-3 > db > {} user.json > ...
1  [
2    {
3      "id": 1,
4      "name": "Admin 1",
5      "email": "admin@gmail.com",
6      "password": "admin123",
7      "role": "admin",
8      "permission": [
9        "dashboard.page",
10       "mahasiswa.page",
11       "mahasiswa.read",
12       "mahasiswa.create",
13       "mahasiswa.update",
14       "mahasiswa.delete",
15     ]
16   },
17   {
18     "id": 2,
19     "name": "Mahasiswa 1",
20     "email": "mahasiswa@gmail.com",
21     "password": "mahasiswa123",
22     "role": "mahasiswa",
23     "permission": [
24       "krs.page",
25       "krs.read"
26     ]
27   }
28 ]
29 |
```

/src/Pages/Layouts/Utils/Context/AuthContext.jsx

```
Pertemuan-3 > src > Pages > Layouts > Utils > Context > AuthContext.jsx >AuthProvider
1  import { createContext, useContext, useState } from "react";
2
3  const AuthStateContext = createContext({
4    user: null,
5    setUser: () => {},
6  });
7
8  export const AuthProvider = ({ children }) => {
9    const [user, _setUser] = useState(JSON.parse(localStorage.getItem("user")));
10
11    const setUser = (user) => {
12      _setUser(user);
13
14      if (user) {
15        localStorage.setItem("user", JSON.stringify(user));
16      } else {
17        localStorage.removeItem("user");
18      }
19    };
20
21    return (
22      <AuthStateContext.Provider value={{ user, setUser }}>
23        {children}
24      </AuthStateContext.Provider>
25    );
26  };
27
28  export const useAuthStateContext = () => useContext
  (AuthStateContext);
```

/src/App.jsx

```
Pertemuan-3 > src > App.jsx > App
1  import React from "react";
2  import ReactDOM from "react-dom/client";
3  import { Toaster } from "react-hot-toast";
4  import { createBrowserRouter, RouterProvider } from "react-router-dom";
5  import { AuthProvider } from "@/Pages/Layouts/Utils/Context/AuthContext";
6  import "@/App.css";
7  import { QueryClient, QueryClientProvider } from "@tanstack/react-query";
8
9  // Pages
10 import Login from "@/Pages/Auth/Login";
11 import Dashboard from "@/Pages/Admin/Dashboard";
12 import Mahasiswa from "@/Pages/Admin/Mahasiswa";
13 import MahasiswaDetail from "@/Pages/Admin/MahasiswaDetail";
14 import PageNotFound from "@/Pages/PageNotFound";
15 import RencanaStudi from "@/Pages/Admin/RencanaStudi";
16
17 // Layouts
18 import AuthLayout from "@/Pages/Layouts/AuthLayout";
19 import AdminLayout from "@/Pages/Layouts/AdminLayout";
20 import ProtectedRoute from "@/Pages/Layouts/ProtectedRoute";
21
22 const router = createBrowserRouter([
23   {
24     path: "/",
25     element: <AuthLayout />,
26     children: [
27       { index: true, element: <Login /> },
28       { path: "login", element: <Login /> },
29     ],
30   },
31   {
32     path: "/admin",
33     element: (
34       <ProtectedRoute>
35         <AdminLayout />
36       </ProtectedRoute>
37     ),
38     children: [
39       { index: true, element: <Dashboard /> },
40       { path: "dashboard", element: <Dashboard /> },
41       { path: "mahasiswa", element: <Mahasiswa /> },
42       { path: "mahasiswa/:id", element: <MahasiswaDetail /> },
43       { path: "rencana-studi", element: <RencanaStudi /> },
44     ],
45   },
46   { path: "*", element: <PageNotFound /> },
47 ]);
48
49 const queryClient = new QueryClient();
50
51 ReactDOM.createRoot(document.getElementById("root")).render(
52   <React.StrictMode>
53     <QueryClientProvider client={queryClient}>
54       <AuthProvider>
55         <Toaster position="top-center" />
56         <RouterProvider router={router} />
57       </AuthProvider>
58     </QueryClientProvider>
59   </React.StrictMode>
60 );
61
62 export default function App() {
63   return <Login />;
64 }
65
```

```
44   ],
45   },
46   { path: "*", element: <PageNotFound /> },
47 ]);
48
49 const queryClient = new QueryClient();
50
51 ReactDOM.createRoot(document.getElementById("root")).render(
52   <React.StrictMode>
53     <QueryClientProvider client={queryClient}>
54       <AuthProvider>
55         <Toaster position="top-center" />
56         <RouterProvider router={router} />
57       </AuthProvider>
58     </QueryClientProvider>
59   </React.StrictMode>
60 );
61
62 export default function App() {
63   return <Login />;
64 }
65
```

/src/Pages/Auth/Login.jsx

```
Pertemuan-3 > src > Pages > Auth > Login.jsx > ...
1 import React, { useState, useEffect } from "react";
2 import { useNavigate } from "react-router-dom";
3 import { useAuthStateContext } from "@Pages/Layouts/Utils/Context/AuthContext";
4
5 import Input from "@Pages/Layouts/Components/Input";
6 import Label from "@Pages/Layouts/Components/Label";
7 import Button from "@Pages/Layouts/Components/Button";
8 import Card from "@Pages/Layouts/Components/Card";
9 import Heading from "@Pages/Layouts/Components/Heading";
10 import Form from "@Pages/Layouts/Components/Form";
11
12 import {
13   toastSuccess,
14   toastError,
15 } from "@Pages/Layouts/Utils/Helpers/ToastHelpers";
16 import { login } from "@Pages/Layouts/Utils/Apis/AuthApi";
17
18 const Login = () => {
19   const navigate = useNavigate();
20   const { user, setUser } = useAuthStateContext();
21
22   const [form, setForm] = useState({
23     email: "",
24     password: "",
25   });
26
27   useEffect(() => {
28     if (user) {
29       navigate("/admin/dashboard");
30     }
31   }, [user, navigate]);
32
33   const handleChange = (e) => {
34     setForm({ ...form, [e.target.name]: e.target.value });
35   };
36
37   const handleSubmit = async (e) => {
38     e.preventDefault();
39
40     try {
41       const result = await login(form.email, form.password);
42       setUser(result);
43       toastSuccess("Login berhasil!");
44     } catch (err) {
```

```
Pertemuan-3 > src > Pages > Auth > Login.jsx > Login > useEffect() callback
18   const Login = () => {
19     const handleSubmit = async (e) => {
45       toastError(err.message || "Email atau password salah!");
46     }
47   };
48
49   return (
50     <Card className="max-w-md">
51       <Heading as="h2">Login</Heading>
52
53       <Form onSubmit={handleSubmit}>
54         <div>
55           <Label htmlFor="email">Email</Label>
56           <Input
57             type="email"
58             name="email"
59             value={form.email}
60             onChange={handleChange}
61             placeholder="Masukkan email"
62             required
63           />
64         </div>
65
66         <div>
67           <Label htmlFor="password">Password</Label>
68           <Input
69             type="password"
70             name="password"
71             value={form.password}
72             onChange={handleChange}
73             placeholder="Masukkan password"
74             required
75           />
76         </div>
77
78         <Button type="submit" className="w-full">
79           Login
80         </Button>
81       </Form>
82     </Card>
83   );
84 };
85
86 export default Login;
```

/src/Pages/Layouts/Components/Sidebar.jsx

```
Pertemuan-3 > src > Pages > Layouts > Components > Sidebar.jsx > Sidebar
1  import { NavLink } from "react-router-dom";
2  import { useAuthStateContext } from "@Pages/Layouts/Utils/Context/AuthContext";
3
4  const Sidebar = () => {
5    const { user } = useAuthStateContext();
6
7    if (!user) return null;
8
9    return (
10     <aside className="bg-blue-800 text-white min-h-screen transition-all duration-300 w-20
lg:w-64">
11       <div className="p-4 border-b border-blue-700">
12         <span className="text-2xl font-bold hidden lg:block">Admin</span>
13       </div>
14
15       <nav className="p-4 space-y-2">
16         { /* Menu Dashboard */ }
17         {user.permission?.includes("dashboard.page") && (
18           <NavLink
19             to="/admin/dashboard"
20             className={({ isActive }) =>
21               `flex items-center space-x-2 px-4 py-2 rounded ${
22                 isActive ? "bg-blue-700" : "hover:bg-blue-700"
23               }`
24             }
25           >
26             <span>🏠</span>
27             <span className="menu-text hidden lg:inline">Dashboard</span>
28           </NavLink>
29         )}
30
31         { /* Menu Mahasiswa */ }
32         {user.permission?.includes("mahasiswa.page") && (
33           <NavLink
34             to="/admin/mahasiswa"
35             className={({ isActive }) =>
36               `flex items-center space-x-2 px-4 py-2 rounded ${
37                 isActive ? "bg-blue-700" : "hover:bg-blue-700"
38               }`
39             }
40           >
41             <span>👤</span>
42             <span className="menu-text hidden lg:inline">Mahasiswa</span>
43           </NavLink>
44         )}
45
46         { /* Menu Rencana Studi */ }
47         {user.permission?.includes("rencana-studi.page") && (
48           <NavLink
49             to="/admin/rencana-studi"
50             className={({ isActive }) =>
51               `flex items-center space-x-2 px-4 py-2 rounded ${
52                 isActive ? "bg-blue-700" : "hover:bg-blue-700"
53               }`
54             }
55           >
56             <span>📅</span>
57             <span className="menu-text hidden lg:inline">Rencana Studi</span>
58           </NavLink>
59         )}
60       </nav>
61     </aside>
62   );
63 };
64
65 export default Sidebar;
```

/src/Pages/Layouts/Components/Header.jsx

```
Pertemuan-3 > src > Pages > Layouts > Components > Header.jsx > Header > user
1 import Button from "@Pages/Layouts/Components/Button";
2 import { confirmLogout } from "@Pages/Layouts/Utils/Helpers/SwalHelpers";
3 import { toastSuccess } from "@Pages/Layouts/Utils/Helpers/ToastHelpers";
4 import { useAuthStateContext } from "@Pages/Layouts/Utils/Context/AuthContext";
5
6 const Header = () => {
7   const toggleProfileMenu = () => {
8     const menu = document.getElementById("profileMenu");
9     if (menu) menu.classList.toggle("hidden");
10  };
11
12  const { user } = useAuthStateContext();
13
14  return (
15    <header className="bg-white shadow-md">
16      <div className="flex justify-between items-center px-6 py-4">
17        <h1 className="text-2xl font-semibold text-gray-800">
18          Login sebagai: <strong>{user?.role || user?.name}</strong>
19        </h1>
20        <div className="relative">
21          <Button
22            onClick={toggleProfileMenu}
23            className="w-8 h-8 rounded-full bg-gray-300 focus:outline-none"
24          />
25          <div
26            id="profileMenu"
27            className="absolute right-0 mt-2 w-40 bg-white rounded-md shadow-lg py-2 hidden"
28          >
29            <a href="#" className="block px-4 py-2 text-gray-700 hover:bg-gray-100">
30              Profile
31            </a>
32            <button
33              onClick={() => {
34                confirmLogout(() => {
35                  localStorage.removeItem("user");
36                  toastSuccess("Berhasil logout!");
37                  location.href = "/";
38                })
39              }
40              className="w-full text-left px-4 py-2 text-gray-700 hover:bg-gray-100"
41            >
42              Logout
43            </button>
44          </div>
45        </div>
46      </div>
47    </header>
48  );
49 };
50
51 export default Header;
```

/src/Pages/Layouts/ProtectedRoute.jsx

```
Pertemuan-3 > src > Pages > Layouts > ProtectedRoute.jsx > default
1 import React from "react";
2 import { Navigate } from "react-router-dom";
3 import { useAuthStateContext } from "@Pages/Layouts/Utils/Context/AuthContext";
4
5 const ProtectedRoute = ({ children }) => {
6   //const isLoggedIn = localStorage.getItem("user");
7   const { user } = useAuthStateContext();
8
9   if (!user) {
10     return <Navigate to="/login" replace />;
11   }
12
13   return children;
14 };
15
16 export default ProtectedRoute;
```

/src/Pages/Admin/Mahasiswa.jsx

```
return (  
  <>  
    <Card>  
      <div className="flex justify-between items-center mb-4">  
        <Heading as="h2">Daftar Mahasiswa</Heading>  
  
        {user.permission?.includes("mahasiswa.create") && (  
          <Button onClick={handleAdd}>+ Tambah Mahasiswa</Button>  
        )}  
      </div>  
    </Card>  
  </>  
)
```

```
{/* TABLE */}  
{user.permission?.includes("mahasiswa.read") && (  
  <TableMahasiswa  
    data={paginatedMahasiswa}  
    isLoading={isLoadingMahasiswa}  
    onEdit={openEditModal}  
    onDelete={handleDelete}  
    onDetail={(id) => navigate(`/admin/mahasiswa/${id}`)}  
    getTotalSks={getTotalSks}  
  />  
)}  
)
```

/src/Pages/Admin/TableMahasiswa.jsx

```
<td className="py-2 px-4 text-center space-x-2">  
  <Button  
    size="sm"  
    onClick={() => onDetail(mhs.id)}  
  >  
    Detail  
  </Button>  
  
  {user.permission?.includes("mahasiswa.update") && (  
    <Button  
      size="sm"  
      variant="warning"  
      onClick={() => onEdit(mhs)}  
    >  
      Edit  
    </Button>  
  )}  
  
  {user.permission?.includes("mahasiswa.delete") && (  
    <Button  
      size="sm"  
      variant="danger"  
      onClick={() => onDelete(mhs.id)}  
    >  
      Hapus  
    </Button>  
  )}  
</td>
```

Hasil Tampilan:

Admin

Login sebagai: mahasiswa

Selamat Datang di Dashboard

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Admin

Dashboard

Mahasiswa

Mahasiswa

Daftar Mahasiswa

+ Tambah Mahasiswa

NIM	Nama	Aksi
A11.2020.00001	Andi	<div>DetailEditHapus</div>
A11.2020.00002	Budi	<div>DetailEditHapus</div>
A11.2022.14655	Nauval	<div>DetailEditHapus</div>

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```
Pertemuan-3 > {} db.json > [] user > {} 0 > [] permission >
165     "matakuliah": [
181 ],
182     "user": [
183     {
184         "id": 1,
185         "name": "Admin 1",
186         "email": "admin@gmail.com",
187         "password": "admin123",
188         "role": "admin",
189         "permission": [
190             "dashboard.page",
191             "mahasiswa.page",
192             "mahasiswa.read",
193             "mahasiswa.create",
194             "mahasiswa.update",
195             "mahasiswa.delete"
196         ],
197     },
198     {
199         "id": 2,
200         "name": "Mahasiswa 1",
201         "email": "mahasiswa@gmail.com",
202         "password": "mahasiswa123",
203         "role": "mahasiswa",
204         "permission": [
205             "krs.page",
206             "krs.read"
207         ]
208     }
209 ]
210 }
```