

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 > [Auth] 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 }
```

## /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) {
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;
```

```
Pertemuan-3 > src > Pages > Auth > Login.jsx > Login > useEffect() callback
18  const Login = () => {
37    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
11        lg:w-64">
12        <div className="p-4 border-b border-blue-700">
13          <span className="text-2xl font-bold hidden lg:block">Admin</span>
14        </div>
15
16        <nav className="p-4 space-y-2">
17          {/* Menu Dashboard */}
18          {user.permission?.includes("dashboard.page") && (
19            <NavLink
20              to="/admin/dashboard"
21              className={({ isActive }) =>
22                `flex items-center space-x-2 px-4 py-2 rounded ${
23                  isActive ? "bg-blue-700" : "hover:bg-blue-700"
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              <span>👤</span>
41              <span className="menu-text hidden lg:inline">Mahasiswa</span>
42            </NavLink>
43
44            </NavLink>
45          )}
46
47          {/* Menu Rencana Studi */}
48          {user.permission?.includes("rencana-studi.page") && (
49            <NavLink
50              to="/admin/rencana-studi"
51              className={({ isActive }) =>
52                `flex items-center space-x-2 px-4 py-2 rounded ${
53                  isActive ? "bg-blue-700" : "hover:bg-blue-700"
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>
```

```
{/* 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>
```

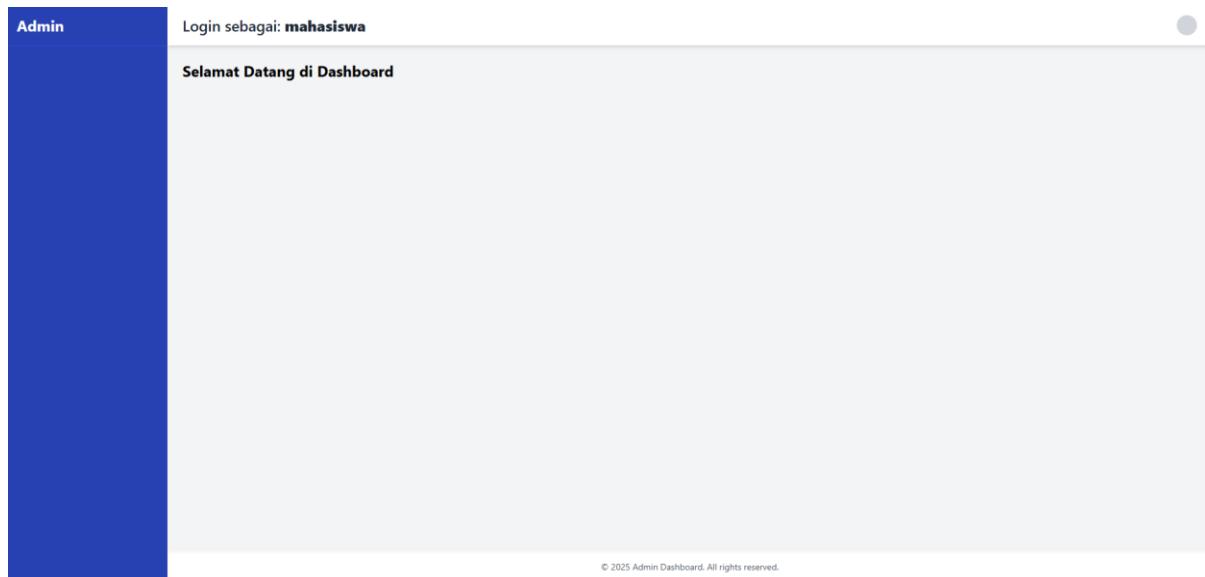
### Hasil Tampilan:

Admin

Login sebagai: mahasiswa

Selamat Datang di Dashboard

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Admin

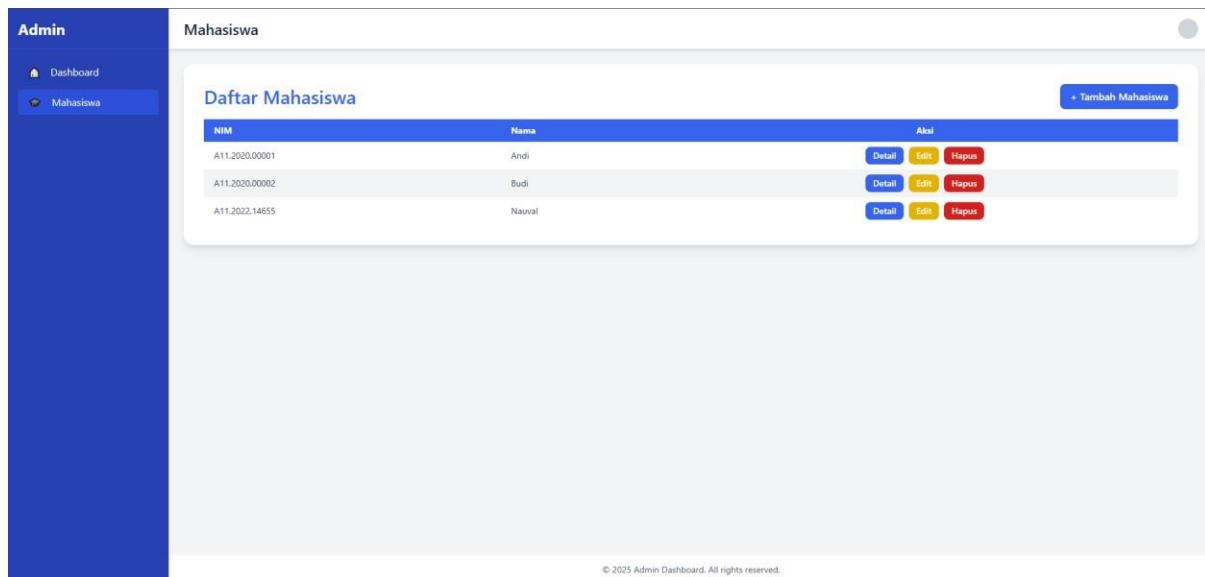
Mahasiswa

Daftar Mahasiswa

+ Tambah Mahasiswa

NIM	Nama	Aksi
A11.2020.00001	Andi	<a href="#">Detail</a> <a href="#">Edit</a> <a href="#">Hapus</a>
A11.2020.00002	Budi	<a href="#">Detail</a> <a href="#">Edit</a> <a href="#">Hapus</a>
A11.2022.14655	Nauval	<a href="#">Detail</a> <a href="#">Edit</a> <a href="#">Hapus</a>

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```
Pertemuan-3 > {} db.json > [ ] user > {} o > [ ] 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 }
```