

Source Code:

/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
```

/src/Pages/Layouts/Utils/Hooks/useMahasiswa.jsx

```
Pertemuan-3 > src > Pages > Layouts > Utils > Hooks > useMahasiswa.jsx > useStoreMahasiswa > onSuccess
1 // Utils/Hooks/useMahasiswa.jsx
2 import { useQuery, useMutation, useQueryClient } from "@tanstack/react-query";
3 import {
4   getAllMahasiswa,
5   storeMahasiswa,
6   updateMahasiswa,
7   deleteMahasiswa,
8 } from "@/Pages/Layouts/Utils/Apis/MahasiswaApi";
9 import { toastSuccess, toastError } from "@/Pages/Layouts/Utils/Helpers/ToastHelpers";
10
11 // Ambil semua mahasiswa
12 export const useMahasiswa = () =>
13   useQuery({
14     queryKey: ["mahasiswa"],
15     queryFn: getAllMahasiswa,
16     select: (res) => res?.data ?? [],
17   });
18
19 // Tambah
20 export const useStoreMahasiswa = () => {
21   const queryClient = useQueryClient();
22   return useMutation({
23     mutationFn: storeMahasiswa,
24     onSuccess: () => [
25       queryClient.invalidateQueries({ queryKey: ["mahasiswa"] });
26       toastSuccess("Mahasiswa berhasil ditambahkan!");
27     ],
28     onError: () => toastError("Gagal menambahkan mahasiswa."),
29   });
30 };
31
32 // Edit
33 export const useUpdateMahasiswa = () => {
34   const queryClient = useQueryClient();
35   return useMutation({
36     mutationFn: ({ id, data }) => updateMahasiswa(id, data),
37     onSuccess: () => {
38       queryClient.invalidateQueries({ queryKey: ["mahasiswa"] });
39       toastSuccess("Mahasiswa berhasil diperbarui!");
40     },
41     onError: () => toastError("Gagal memperbarui mahasiswa."),
42   });
43 };
44
45 // Hapus
46 export const useDeleteMahasiswa = () => {
47   const queryClient = useQueryClient();
48   return useMutation({
49     mutationFn: deleteMahasiswa,
50     onSuccess: () => [
51       queryClient.invalidateQueries({ queryKey: ["mahasiswa"] });
52       toastSuccess("Mahasiswa berhasil dihapus!");
53     ],
54     onError: () => toastError("Gagal menghapus mahasiswa."),
55   });
56 }
```

/src/Pages/Layouts/Utils/Hooks/useMataKuliah.jsx

```
Pertemuan-3 > src > Pages > Layouts > Utils > Hooks > useMataKuliah.jsx > ...
1 // Utils/Hooks/useMataKuliah.jsx
2 import { useQuery } from "@tanstack/react-query";
3 import { getAllMataKuliah } from "@/Pages/Layouts/Utils/Apis/MataKuliahApi";
4
5 export const useMataKuliah = () =>
6   useQuery({
7     queryKey: ["matakuliah"],
8     queryFn: getAllMataKuliah,
9     select: (res) => res?.data ?? [],
10   });
11
```

/src/Pages/Layouts/Utils/Hooks/useKelas.jsx

```
Pertemuan-3 > src > Pages > Layouts > Utils > Hooks > useKelas.jsx > ...
1 // Utils/Hooks/useKelas.jsx
2 import { useQuery } from "@tanstack/react-query";
3 import { getAllKelas } from "@/Pages/Layouts/Utils/Apis/KelasApi";
4
5 export const useKelas = () =>
6   useQuery({
7     queryKey: ["kelas"],
8     queryFn: getAllKelas,
9     select: (res) => res?.data ?? [],
10   });

```

/src/Pages/Admin/Mahasiswa.jsx

```
// ===== DATA RELASI =====
const [kelas, setKelas] = useState([]);
const [mataKuliah, setMataKuliah] = useState([]);

// ===== FETCH MAHASISWA =====
const {
  data: mahasiswa = [],
  isLoading: isLoadingMahasiswa,
} = useMahasiswa();

// ===== MUTATION =====
const { mutate: store } = useStoreMahasiswa();
const { mutate: update } = useUpdateMahasiswa();
const { mutate: remove } = useDeleteMahasiswa();

// ===== SUBMIT =====
const handleSubmit = (e) => {
  e.preventDefault();

  if (!form.nim || !form.name || !form.max_sks) {
    toastError("NIM, Nama, dan Max SKS wajib diisi!");
    return;
  }

  if (isEdit) {
    confirmUpdate(() => {
      update({ id: form.id, data: form });
      resetForm();
    });
    return;
  }

  const exists = mahasiswa.find(m => m.nim === form.nim);
  if (exists) {
    toastError("NIM sudah terdaftar!");
    return;
  }

  store(form);
  resetForm();
};

// ===== DELETE =====
const handleDelete = (id) => {
  confirmDelete(() => {
    remove(id);
  });
};
```

