

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 |
```

```
44 |   ],
45 | },
46 | { path: "*", element: <PageNotFound /> },
47 | ]);
48 |
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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  });

```

/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);
  });
};
```

