

Source code:

Pertemuan-3/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    },
8    {
9      "id": 2,
10     "name": "Mahasiswa 1",
11     "email": "mahasiswa@gmail.com",
12     "password": "mahasiswa123"
13   }
14 ]
```

Pertemuan-3/db/mahasiswa.json

```
Pertemuan-3 > db > {} mahasiswa.json > ...
1  [
2    {
3      "id": 1,
4      "nama": "Andi",
5      "nim": "A11.2020.00001"
6    },
7    {
8      "id": 2,
9      "nama": "Budi",
10     "nim": "A11.2020.00002"
11   },
12   {
13     "id": 3,
14     "nama": "Nauval",
15     "nim": "A11.2022.14655"
16   }
17 ]
```

Pertemuan-3/db.json (data yang masuk dari mahasiswa dan user)

```
Pertemuan-3 > {} db.json > ...
1  {
2    "mahasiswa": [
3      {
4        "id": 1,
5        "nama": "Andi",
6        "nim": "A11.2020.00001"
7      },
8      {
9        "id": 2,
10       "nama": "Budi",
11       "nim": "A11.2020.00002"
12     },
13     {
14       "id": 3,
15       "nama": "Nauval",
16       "nim": "A11.2022.14655"
17     }
18   ],
19   "user": [
20     {
21       "id": 1,
22       "name": "Admin 1",
23       "email": "admin@gmail.com",
24       "password": "admin123"
25     },
26     {
27       "id": 2,
28       "name": "Mahasiswa 1",
29       "email": "mahasiswa@gmail.com",
30       "password": "mahasiswa123"
31     }
32   ]
33 }
```

### Pertemuan-3/merge-json.cjs

```
Pertemuan-3 > JS merge-json.cjs > ...
1  const fs = require('fs');
2  const path = require('path');
3
4  const dbFolder = path.join(__dirname, 'db');
5  const outputFile = path.join(__dirname, 'db.json');
6
7  // Ambil semua file .json di folder db/
8  const files = fs.readdirSync(dbFolder).filter(f => f.endsWith('.json'));
9
10 const combined = {};
11
12 files.forEach(file => {
13   const key = path.basename(file, '.json'); // misal: mahasiswa.json → mahasiswa
14   const content = fs.readFileSync(path.join(dbFolder, file), 'utf-8');
15   combined[key] = JSON.parse(content);
16 });
17
18 fs.writeFileSync(outputFile, JSON.stringify(combined, null, 2));
19
20 console.log('Berhasil generate db.json dari folder /db');
```

### Pertemuan-3/package.json

```
Pertemuan-3 > JSON package.json > [] scripts > abc serve
1  {
2    "name": "pertemuan-3",
3    "private": true,
4    "version": "0.0.0",
5    "type": "module",
6    "Debug": true
7    "scripts": [
8      "dev": "vite",
9      "build": "vite build",
10     "lint": "eslint .",
11     "preview": "vite preview",
12     "serve": "node merge-json.cjs && json-server --watch db.json --port 3001"
13   ],
14   "dependencies": {
15     "@tailwindcss/vite": "^4.1.14",
16     "axios": "1.13.2",
17     "json-server": "1.0.0-beta.3",
18     "react": "19.1.1",
19     "react-dom": "19.1.1",
20     "react-hot-toast": "2.6.0",
21     "react-router-dom": "7.9.4",
22     "sweetalert2": "11.26.3",
23     "tailwindcss": "4.1.14"
24   },
25   "devDependencies": {
26     "@eslint/js": "9.36.0",
27     "@types/react": "19.1.13",
28     "@types/react-dom": "19.1.9",
29     "@vitejs/plugin-react": "5.0.3",
30     "eslint": "9.36.0",
31     "eslint-plugin-react-hooks": "5.2.0",
32     "eslint-plugin-react-refresh": "0.4.20",
33     "globals": "16.4.0",
34     "vite": "7.1.7"
35   }
36 }
```

### /src/Pages/Layouts/Utils/AxiosInstance.jsx

```
Pertemuan-3 > src > Pages > Layouts > Utils > JS AxiosInstance.jsx > [E] default
1  import axios from "axios";
2
3  const AxiosInstance = axios.create({
4    baseURL: "http://localhost:3001", // alamat json-server
5    headers: {
6      "Content-Type": "application/json",
7    },
8  });
9
10 export default AxiosInstance;
```

## /src/Pages/Layouts/Utils/apis/MahasiswaApi.jsx

```
Pertemuan-3 > src > Pages > Layouts > Utils > Apis > MahasiswaApi.jsx > ...
1 import axios from "@/Pages/Layouts/Utils/AxiosInstance";
2
3 // Ambil semua mahasiswa
4 export const getAllMahasiswa = () => axios.get("/mahasiswa");
5
6 // Ambil 1 mahasiswa
7 export const getMahasiswa = (id) => axios.get(`/mahasiswa/${id}`);
8
9 // Tambah mahasiswa
10 export const storeMahasiswa = (data) => axios.post("/mahasiswa", data);
11
12 // Update mahasiswa
13 export const updateMahasiswa = (id, data) => axios.put(`/mahasiswa/${id}`, data);
14
15 // Hapus mahasiswa
16 export const deleteMahasiswa = (id) => axios.delete(`/mahasiswa/${id}`);
```

## /src/Pages/Admin/Mahasiswa.jsx

```
Pertemuan-3 > src > Pages > Admin > Mahasiswa.jsx > ...
1 import React, { useState, useEffect } from "react";
2 import Card from "@/Pages/Layouts/Components/Card";
3 import Heading from "@/Pages/Layouts/Components/Heading";
4 import Button from "@/Pages/Layouts/Components/Button";
5 import { useNavigate } from "react-router-dom";
6
7 import TableMahasiswa from "./TableMahasiswa";
8 import ModalMahasiswa from "./ModalMahasiswa";
9
10 import { toastSuccess, toastError } from "@/Pages/Layouts/Utils/Helpers/ToastHelpers";
11 import { confirmDelete, confirmUpdate } from "@/Pages/Layouts/Utils/Helpers/SwalHelpers";
12 |
13 import {
14   getAllMahasiswa,
15   storeMahasiswa,
16   updateMahasiswa as updateApi,
17   deleteMahasiswa as deleteApi,
18 } from "@/Pages/Layouts/Utils/apis/MahasiswaApi";
19
20 const Mahasiswa = () => {
21   const navigate = useNavigate();
22
23   // Data Mahasiswa
24   const [mahasiswa, setMahasiswa] = useState([]);
25
26   // State Modal & Form
27   const [isModalOpen, setIsModalOpen] = useState(false);
28   const [isEdit, setIsEdit] = useState(false);
29   const [form, setForm] = useState({ id: null, nim: "", nama: "" });
30
31   // Fetch data dari API
32   useEffect(() => {
33     fetchMahasiswa();
34   }, []);
35
36   const fetchMahasiswa = async () => {
37     getAllMahasiswa()
38       .then((res) => {
39         setMahasiswa(res.data);
40       })
41       .catch(() => toastError("Gagal mengambil data mahasiswa"));
42   };
43
44   // Handle input form
45   const handleChange = (e) => {
46     setForm({ ...form, [e.target.name]: e.target.value });
47   };
}
```

Pertemuan-3 > src > Pages > Admin >  Mahasiswa.jsx >  Mahasiswa

```
20  const Mahasiswa = () => {
48
49  // Buka modal tambah
50  const handleAdd = () => {
51    setForm({ id: null, nim: "", nama: "" });
52    setIsEdit(false);
53    setIsModalOpen(true);
54  };
55
56  // Buka modal edit
57  const openEditModal = (mhs) => {
58    setForm({
59      id: mhs.id,
60      nim: mhs.nim,
61      nama: mhs.nama,
62    });
63    setIsEdit(true);
64    setIsModalOpen(true);
65  };
66
67  // Submit form (Tambah / Update)
68  const handleSubmit = async (e) => {
69    e.preventDefault();
70
71    if (!form.nim.trim() || !form.nama.trim()) {
72      toastError("NIM dan Nama wajib diisi!");
73      return;
74    }
75
76    if (isEdit) {
77      // UPDATE DATA
78      confirmUpdate(() => {
79        updateApi(form.id, form)
80          .then(() => {
81            toastSuccess("Data berhasil diperbarui");
82            fetchMahasiswa();
83            setIsModalOpen(false);
84          })
85          .catch(() => toastError("Gagal update data"));
86      });
87    } else {
88      // CREATE DATA
89      storeMahasiswa(form)
90        .then(() => {
91          toastSuccess("Data berhasil ditambahkan");
92          fetchMahasiswa();
93          setIsModalOpen(false);
94        })
95        .catch(() => toastError("Gagal menambah data"));
96  }
97}
```

Pertemuan-3 > src > Pages > Admin >  Mahasiswa.jsx > [e] Mahasiswa > [s] handleSubmit

```
20  const Mahasiswa = () => {
68    const handleSubmit = async (e) => {
96      }
97
98      setForm({ id: null, nim: "", nama: "" });
99    };
100
101     // Hapus data mahasiswa
102     const handleDelete = async (id) => {
103       co import deleteApi [
104         deleteApi(id)
105         .then(() => {
106           toastSuccess("Data berhasil dihapus");
107           fetchMahasiswa();
108         })
109         .catch(() => toastError("Gagal menghapus data"));
110       );
111     };
112
113     return (
114       <>
115         <Card>
116           <div className="flex justify-between items-center mb-4">
117             <Heading as="h2" className="mb-0 text-left">
118               Daftar Mahasiswa
119             </Heading>
120             <Button onClick={handleAdd}>+ Tambah Mahasiswa</Button>
121           </div>
122
123           <TableMahasiswa
124             data={mahasiswa}
125             onEdit={openEditModal}
126             onDelete={handleDelete}
127             onDetail={(id) => navigate(`/admin/mahasiswa/${id}`)}
128           />
129         </Card>
130
131         <ModalMahasiswa
132           isOpen={isModalOpen}
133           isEdit={isEdit}
134           form={form}
135           onChange={handleChange}
136           onClose={() => setIsModalOpen(false)}
137           onSubmit={handleSubmit}
138         />
139       </>
140     );
141   };
142 }
```

## /src/Pages/Admin/TableMahasiswa.jsx

```
Pertemuan-3 > src > Pages > Admin > TableMahasiswa.jsx > default
  1 import Button from "@/Pages/Layouts/Components/Button";
  2
  3 const TableMahasiswa = ({ data = [], onEdit, onDelete, onDetail }) => {
  4   return (
  5     <table className="w-full text-sm text-gray-700">
  6       <thead className="bg-blue-600 text-white">
  7         <tr>
  8           <th className="py-2 px-4 text-left">NIM</th>
  9           <th className="py-2 px-4 text-left">Nama</th>
 10           <th className="py-2 px-4 text-center">Aksi</th>
 11         </tr>
 12       </thead>
 13       <tbody>
 14         {data.map((mhs, index) => (
 15           <tr key={mhs.nim} className={index % 2 === 0 ? "bg-white" : "bg-gray-100"}>
 16             <td className="py-2 px-4">{mhs.nim}</td>
 17             <td className="py-2 px-4">{mhs.nama}</td>
 18             <td className="py-2 px-4 text-center space-x-2">
 19               <Button size="sm" onClick={() => onDetail(mhs.id)}>Detail</Button>
 20               <Button size="sm" variant="warning" onClick={() => onEdit(mhs)}>
 21                 Edit
 22               </Button>
 23               <Button size="sm" variant="danger" onClick={() => onDelete(mhs.id)}>
 24                 Hapus
 25               </Button>
 26             </td>
 27           </tr>
 28         ))
 29       </tbody>
 30     </table>
 31   );
 32 };
 33
 34 export default TableMahasiswa;
```

## /src/Pages/Admin/MahasiswaDetail.jsx

```
Pertemuan-3 > src > Pages > Admin > MahasiswaDetail.jsx > ...
  1 import React, { useEffect, useState } from "react";
  2 import { useParams } from "react-router-dom";
  3 import Card from "@/Pages/Layouts/Components/Card";
  4 import Heading from "@/Pages/Layouts/Components/Heading";
  5
  6 import { getMahasiswa } from "@/Pages/Layouts/Utils/apis/MahasiswaApi";
  7 import { toastError } from "@/Pages/Layouts/Utils/Helpers/ToastHelpers";
  8
  9 const MahasiswaDetail = () => {
 10   const { id } = useParams();
 11
 12   const [mahasiswa, setMahasiswa] = useState(null);
 13   const [loading, setLoading] = useState(true);
 14
 15   useEffect(() => {
 16     fetchMahasiswa();
 17   }, [id]);
 18
 19   const fetchMahasiswa = async () => {
 20     try {
 21       const res = await getMahasiswa(id);
 22       setMahasiswa(res.data);
 23     } catch (err) {
 24       toastError("Gagal mengambil data mahasiswa");
 25     } finally {
 26       setLoading(false);
 27     }
 28   };
 29
 30   if (loading) return <p className="text-center">Memuat data...</p>;
 31
 32   if (!mahasiswa)
 33     return <p className="text-center text-red-600">Data tidak ditemukan</p>;
 34
```

```
34     return (
35       <Card>
36         <Heading as="h2" className="mb-4 text-left">
37           Detail Mahasiswa
38         </Heading>
39
40         <table className="table-auto text-sm w-full">
41           <tbody>
42             <tr>
43               <td className="py-2 px-4 font-medium">NIM</td>
44               <td className="py-2 px-4">{mahasiswa.nim}</td>
45             </tr>
46
47             <tr>
48               <td className="py-2 px-4 font-medium">Nama</td>
49               <td className="py-2 px-4">{mahasiswa.nama}</td>
50             </tr>
51           </tbody>
52         </table>
53       </Card>
54     );
55   };
56 }
57
58 export default MahasiswaDetail;
59 
```

/src/Pages/Layouts/Utils/Apis/AuthApi.js

```
Pertemuan-3 > src > Pages > Layouts > Utils > Apis > JS AuthApi.js > ...
1 import axios from "@/Pages/Layouts/Utils/AxiosInstance";
2
3 export const login = async ( email, password ) => {
4   const res = await axios.get("/user", { params: { email } });
5   const user = res.data[0];
6
7   if (!user) throw new Error("Email tidak ditemukan");
8   if (user.password !== password) throw new Error("Password salah");
9
10  return user;
11 };
```

/src/Pages/Auth/Login.jsx

```
Pertemuan-3 > src > Pages > Auth > Login.jsx > ...
1  import React, { useState } from "react";
2  import { useNavigate } from "react-router-dom";
3
4  import Input from "@/Pages/Layouts/Components/Input";
5  import Label from "@/Pages/Layouts/Components/Label";
6  import Button from "@/Pages/Layouts/Components/Button";
7  import Link from "@/Pages/Layouts/Components/Link";
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 { toastSuccess, toastError } from "@/Pages/Layouts/Utils/Helpers/ToastHelpers";
13 import { login } from "@/Pages/Layouts/Utils/apis/AuthApi";
14
15 const Login = () => {
16   const navigate = useNavigate();
17
18   const [form, setForm] = useState({
19     email: "",
20     password: ""
21   });
22
23   const handleChange = (e) => {
24     setForm({ ...form, [e.target.name]: e.target.value });
25   };
26
27   const handleSubmit = async (e) => {
28     e.preventDefault();
29     const { email, password } = form;
30
31     try {
32       const user = await login(email, password);
33
34       // Simpan user ke localStorage
35       localStorage.setItem("user", JSON.stringify(user));
36
37       toastSuccess("Login berhasil!");
38       navigate("/admin/dashboard");
39     } catch (err) {
40       toastError(err.message || "Email atau password salah!");
41     }
42   };
43
44   return (
45     <Card className="max-w-md">
46       <Heading as="h2">Login</Heading>
47   
```

```
Pertemuan-3 > src > Pages > Auth > Login.jsx > [x] Login
15 const Login = () => {
43 |
44     return (
45         <Card className="max-w-md">
46             <Heading as="h2">Login</Heading>
47
48             <Form onSubmit={handleSubmit}>
49                 <div>
50                     <Label htmlFor="email">Email</Label>
51                     <Input
52                         type="email"
53                         name="email"
54                         value={form.email}
55                         onChange={handleChange}
56                         placeholder="Masukkan email"
57                         required
58                     />
59                 </div>
60
61                 <div>
62                     <Label htmlFor="password">Password</Label>
63                     <Input
64                         type="password"
65                         name="password"
66                         value={form.password}
67                         onChange={handleChange}
68                         placeholder="Masukkan password"
69                         required
70                     />
71                 </div>
72
73                 <div className="flex justify-between items-center">
74                     <label className="flex items-center">
75                         <input type="checkbox" className="mr-2" />
76                         <span className="text-sm text-gray-600">Ingat saya</span>
77                     </label>
78
79                     <Link href="#" className="text-sm">
80                         Lupa password?
81                     </Link>
82                 </div>
83
84                 <Button type="submit" className="w-full">
85                     Login
86                 </Button>
87             </Form>
88
89
90
91
92
93
94
95
96
97
```

```
Pertemuan-3 > src > Pages > Auth > Login.jsx > ...
15 const Login = () => {
88
89     <p className="text-sm text-center text-gray-600 mt-4">
90         Belum punya akun? <Link href="#">Daftar</Link>
91     </p>
92     </Card>
93 );
94 };
95
96 export default Login;
97
```

Hasil :

Sebelum menambahkan data

The screenshot shows the Admin Dashboard interface. On the left, there's a sidebar with 'Admin' at the top, followed by 'Dashboard' and 'Mahasiswa' (which is highlighted). The main content area is titled 'Mahasiswa' and contains a sub-section titled 'Daftar Mahasiswa'. This section displays a table with three rows of student data:

NIM	Nama	Aksi
A11.2020.00001	Andi	[Detail] [Edit] [Hapus]
A11.2020.00002	Budi	[Detail] [Edit] [Hapus]
A11.2022.14655	Nauval	[Detail] [Edit] [Hapus]

At the top right of the 'Daftar Mahasiswa' section, there's a blue button labeled '+ Tambah Mahasiswa'.

The screenshot shows a browser window with the URL 'localhost:3001/mahasiswa'. The page title is 'localhost:3001/mahasiswa'. The content area displays a JSON array representing the student data from the previous screenshot:

```
[{"id": "1", "nama": "Andi", "nim": "A11.2020.00001"}, {"id": "2", "nama": "Budi", "nim": "A11.2020.00002"}, {"id": "3", "nama": "Nauval", "nim": "A11.2022.14655"}]
```

Sesudah menambahkan data:

NIM	Nama	Aksi
A11.2020.00001	Andi	[Detail] [Edit] [Hapus]
A11.2020.00002	Budi	[Detail] [Edit] [Hapus]
A11.2022.14655	Nauval	[Detail] [Edit] [Hapus]
A11.3030.24425	aseli ngawi	[Detail] [Edit] [Hapus]

```

Pretty print □
[{"id": "1", "nama": "Andi", "nim": "A11.2020.00001"}, {"id": "2", "nama": "Budi", "nim": "A11.2020.00002"}, {"id": "3", "nama": "Nauval", "nim": "A11.2022.14655"}, {"id": null, "nim": "A11.3030.24425", "nama": "aseli ngawi"}]

```

```

Permenuan-3 > {} db.json > [] mahasiswa > []
1   {
2     "mahasiswa": [
3       {
4         "id": "1",
5         "nama": "Andi",
6         "nim": "A11.2020.00001"
7       },
8       {
9         "id": "2",
10        "nama": "Budi",
11        "nim": "A11.2020.00002"
12      },
13      {
14        "id": "3",
15        "nama": "Nauval",
16        "nim": "A11.2022.14655"
17      },
18      {
19        "id": null,
20        "nim": "A11.3030.24425",
21        "nama": "aseli ngawi"
22      }
23    ],
24    "user": [
25      {
26        "id": "1",
27        "name": "Admin 1",
28        "email": "admin@gmail.com",
29        "password": "admin123"
30      },
31      {
32        "id": "2",
33        "name": "Mahasiswa 1",
34        "email": "mahasiswa@gmail.com",
35        "password": "mahasiswa123"
36      }
37    ]
38  ]
39

```