

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

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

```
Pertemuan-3 > src > Pages > Layouts > Utils > AxiosInstance.jsx > 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   };
48 }
```

```
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"));
```

Pertemuan-3 > src > Pages > Admin > Mahasiswa.jsx > Mahasiswa > 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
35     return (
36         <Card>
37             <Heading as="h2" className="mb-4 text-left">
38                 Detail Mahasiswa
39             </Heading>
40
41             <table className="table-auto text-sm w-full">
42                 <tbody>
43                     <tr>
44                         <td className="py-2 px-4 font-medium">NIM</td>
45                         <td className="py-2 px-4">{mahasiswa.nim}</td>
46                     </tr>
47
48                     <tr>
49                         <td className="py-2 px-4 font-medium">Nama</td>
50                         <td className="py-2 px-4">{mahasiswa.nama}</td>
51                     </tr>
52                 </tbody>
53             </table>
54         </Card>
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 > Login

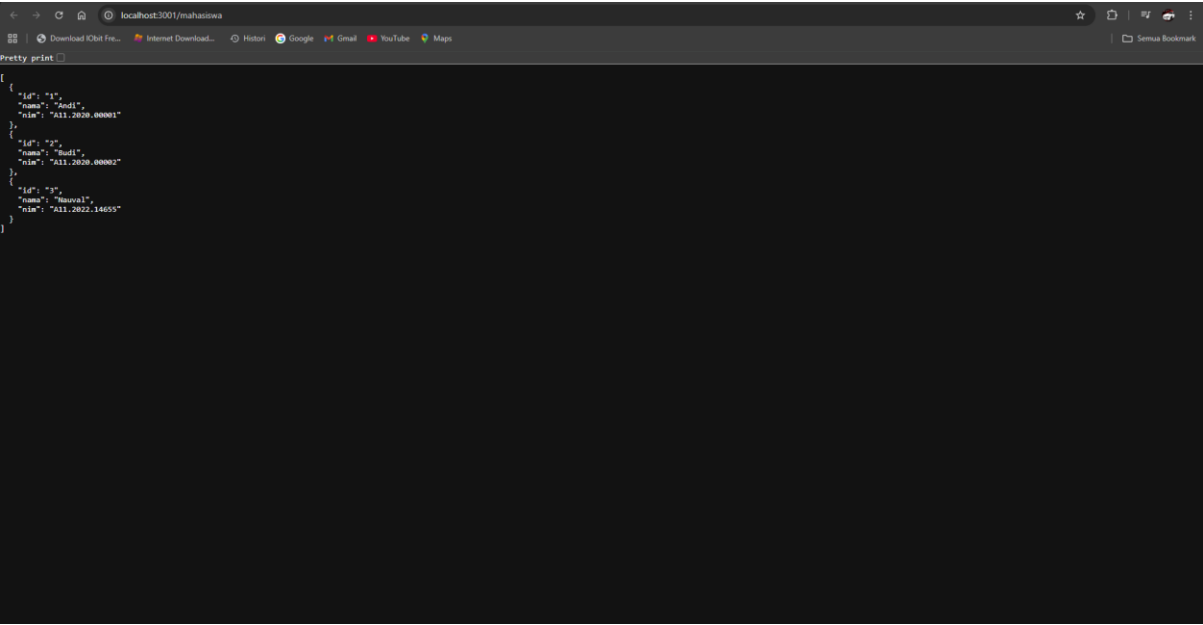
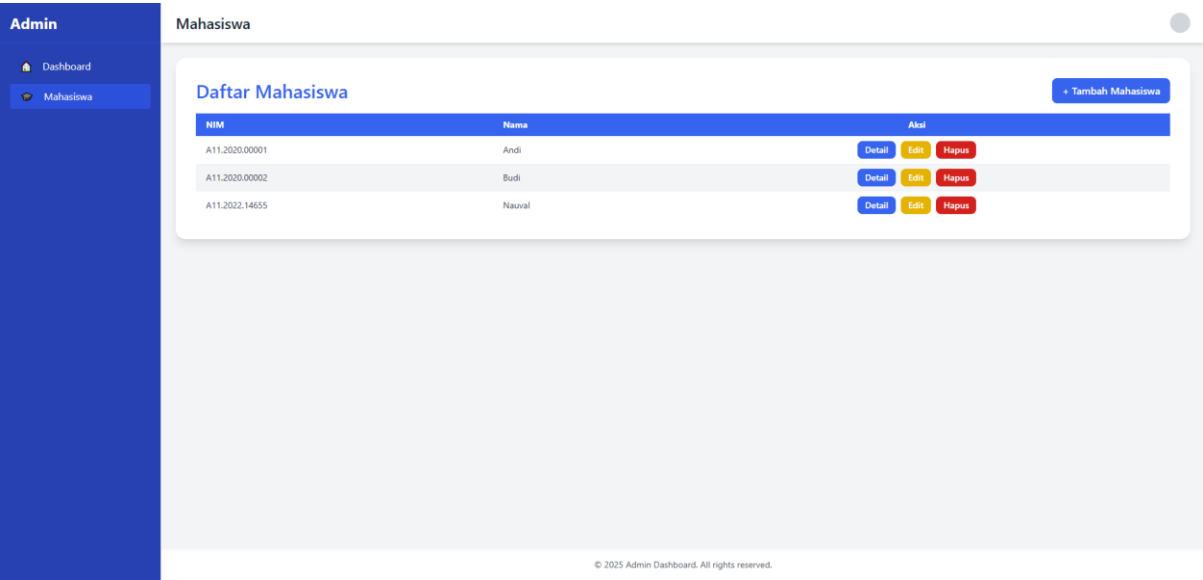
```
15  const Login = () => {
43
44    return (
45      <Card className="max-w-md">
46        <Heading as="h2">Login</Heading>
47
48        <Form onSubmit={handleSubmit}>
49          <div>
50            <Label htmlFor="email">Email</Label>
51            <Input
52              type="email"
53              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      </Card>
89    );
90  };
91  export default Login;
```

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



Sesudah menambahkan data:

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>
A11.3030.24425	aseli ngawi	<div>DetailEditHapus</div>

© 2025 Admin Dashboard. All rights reserved.

```
localhost:3001/mahasiswa
Download iObit Fre...
Internet Download...
Google
Gmail
YouTube
Maps
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"}]
```

```
Pertemuan-3 > {} db.json > {} mahasiswa > {} 3
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 }
```