

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

```
Pertemuan-3 > src > Pages > Layouts > Utils > Apis > JS MahasiswaApi.js > ...
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/Layouts/Utils/Apis/useMahasiswa.js

```
Pertemuan-3 > src > Pages > Layouts > Utils > Apis > JS useMahasiswa.js > ...
1  import { useQuery, useMutation, useQueryClient } from "@tanstack/react-query";
2  import {
3    getAllMahasiswa,
4    storeMahasiswa,
5    updateMahasiswa,
6    deleteMahasiswa,
7  } from "@Pages/Layouts/Utils/Apis/MahasiswaApi";
8
9  /* ===== GET ===== */
10 export const useMahasiswa = (query = {}) =>
11   useQuery({
12     queryKey: ["mahasiswa", query],
13     queryFn: () => getAllMahasiswa(query),
14     select: (res) => ({
15       data: res.data || [],
16       total: parseInt(res.headers["x-total-count"]) || "0", 10),
17     }),
18     keepPreviousData: true,
19   });
20
21 /* ===== CREATE ===== */
22 export const useStoreMahasiswa = () => {
23   const queryClient = useQueryClient();
24   return useMutation({
25     mutationFn: storeMahasiswa,
26     onSuccess: () => {
27       queryClient.invalidateQueries(["mahasiswa"]);
28     },
29   });
30 };
31
32 /* ===== UPDATE ===== */
33 export const useUpdateMahasiswa = () => {
34   const queryClient = useQueryClient();
35   return useMutation({
36     mutationFn: ({ id, data }) => updateMahasiswa(id, data),
37     onSuccess: () => {
38       queryClient.invalidateQueries(["mahasiswa"]);
39     },
40   });
41 };
```

```
43 /* ===== DELETE ===== */
44 export const useDeleteMahasiswa = () => {
45   const queryClient = useQueryClient();
46   return useMutation({
47     mutationFn: deleteMahasiswa,
48     onSuccess: () => {
49       queryClient.invalidateQueries(["mahasiswa"]);
50     },
51   });
52 };
53
```

/src/Pages/Admin/Mahasiswa.jsx

```
Pertemuan-3 > src > Pages > Admin > Mahasiswa.jsx > [e] Mahasiswa
1  import React, { useEffect, useState } 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  import { useAuthStateContext } from "@Pages/Layouts/Utils/Context/AuthContext";
7
8  import TableMahasiswa from "../TableMahasiswa";
9  import ModalMahasiswa from "../ModalMahasiswa";
10
11 import { toastError } from "@Pages/Layouts/Utils/Helpers/ToastHelpers";
12 import { confirmDelete, confirmUpdate } from "@Pages/Layouts/Utils/Helpers/SwalHelpers";
13
14 import {
15   useMahasiswa,
16   useStoreMahasiswa,
17   useUpdateMahasiswa,
18   useDeleteMahasiswa,
19 } from "@Pages/Layouts/Utils/Hooks/useMahasiswa";
20
21 import { getAllKelas } from "@Pages/Layouts/Utils/Apis/KelasApi";
22 import { getAllMataKuliah } from "@Pages/Layouts/Utils/Apis/MataKuliahApi";
23
24 const Mahasiswa = () => {
25   const navigate = useNavigate();
26   const { user } = useAuthStateContext();
27
28   // ===== STATE PAGINATION & FILTER =====
29   const [page, setPage] = useState(1);
30   const [perPage] = useState(6);
31   const [sort, setSort] = useState("name");
32   const [order, setOrder] = useState("asc");
33   const [search, setSearch] = useState("");
34
```

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

const sortedMahasiswa = [...mahasiswa].sort((a, b) => {
  const valA = a[sort];
  const valB = b[sort];

  // === KHUSUS NIM (M001, M021, dll) ===
  if (sort === "nim") {
    const numA = parseInt(valA.replace(/\D/g, ""), 10);
    const numB = parseInt(valB.replace(/\D/g, ""), 10);

    return order === "asc" ? numA - numB : numB - numA;
  }

  // === STRING NORMAL (name) ===
  if (typeof valA === "string" && typeof valB === "string") {
    return order === "asc"
      ? valA.localeCompare(valB)
      : valB.localeCompare(valA);
  }

  // === NUMBER (max_sks) ===
  if (typeof valA === "number" && typeof valB === "number") {
    return order === "asc"
      ? valA - valB
      : valB - valA;
  }

  return 0;
});

const totalPages = Math.ceil(mahasiswa.length / perPage);
const startIndex = (page - 1) * perPage;
const endIndex = startIndex + perPage;
const paginatedMahasiswa = sortedMahasiswa.slice(startIndex, endIndex);
```

```

205     { /* SEARCH & SORT */ }
206     <div className="flex flex-wrap gap-2 mb-4">
207         <input
208             type="text"
209             placeholder="Cari nama/NIM..."
210             className="border px-3 py-1 rounded flex-grow"
211             value={search}
212             onChange={(e) => {
213                 setSearch(e.target.value);
214                 setPage(1);
215             }}
216         />
217
218         <select
219             value={sort}
220             onChange={(e) => {
221                 setSort(e.target.value);
222                 setPage(1);
223             }}
224             className="border px-3 py-1 rounded"
225         >
226             <option value="name">Sort by Nama</option>
227             <option value="nim">Sort by NIM</option>
228             <option value="max_sks">Sort by Max SKS</option>
229         </select>
230
231         <select
232             value={order}
233             onChange={(e) => {
234                 setOrder(e.target.value);
235                 setPage(1);
236             }}
237             className="border px-3 py-1 rounded"
238         >
239             <option value="asc">Asc</option>
240             <option value="desc">Desc</option>
241         </select>
242     </div>

```

```

189     // ===== PAGINATION =====
190     const handlePrev = () => setPage((p) => Math.max(p - 1, 1));
191     const handleNext = () => setPage((p) => Math.min(p + 1, totalPages));
192

```

```

255     { /* PAGINATION */ }
256     <div className="flex justify-between items-center mt-4">
257         <p className="text-sm">
258             Halaman {page} dari {totalPages}
259         </p>
260
261         <div className="flex gap-2">
262             <button
263                 className="px-3 py-1 bg-gray-200 rounded"
264                 onClick={handlePrev}
265                 disabled={page === 1}
266             >
267                 Prev
268             </button>
269
270             <button
271                 className="px-3 py-1 bg-gray-200 rounded"
272                 onClick={handleNext}
273                 disabled={page === totalPages}
274             >
275                 Next
276             </button>
277         </div>

```

Tampilan :
Sort by nama, asc

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Daftar Mahasiswa

+ Tambah Mahasiswa

Carli nama/NIM...

Sort by NamaAsc

NIM	Nama	Max SKS	Total SKS	Aksi
M001	Andi	18	3	<div>DetailEditHapus</div>
M002	Budi	20	3	<div>DetailEditHapus</div>
M003	Citra	22	3	<div>DetailEditHapus</div>
M004	Dina	18	3	<div>DetailEditHapus</div>
M005	Eko	24	3	<div>DetailEditHapus</div>
M006	Fajar	21	0	<div>DetailEditHapus</div>

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Sort by nama , desc

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Carli nama/NIM...

Sort by NamaDesc

NIM	Nama	Max SKS	Total SKS	Aksi
M020	Tino	18	0	<div>DetailEditHapus</div>
M019	Salva	18	0	<div>DetailEditHapus</div>
M018	Rudi	21	0	<div>DetailEditHapus</div>
M017	Qila	18	0	<div>DetailEditHapus</div>
M016	Putri	18	0	<div>DetailEditHapus</div>
M015	Oki	20	0	<div>DetailEditHapus</div>

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Sort by nim, asc

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Carli nama/NIM...

Sort by NIMAsc

NIM	Nama	Max SKS	Total SKS	Aksi
M001	Andi	18	3	<div>DetailEditHapus</div>
M002	Budi	20	3	<div>DetailEditHapus</div>
M003	Citra	22	3	<div>DetailEditHapus</div>
M004	Dina	18	3	<div>DetailEditHapus</div>
M005	Eko	24	3	<div>DetailEditHapus</div>
M006	Fajar	21	0	<div>DetailEditHapus</div>

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Sort by nim, desc

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Cari nama/NIM...

Sort by NIM

Desc

NIM	Nama	Max SKS	Total SKS	Aksi
M020	Tino	18	0	Detail Edit Hapus
M019	Salta	18	0	Detail Edit Hapus
M018	Rudi	21	0	Detail Edit Hapus
M017	Qila	18	0	Detail Edit Hapus
M016	Putri	18	0	Detail Edit Hapus
M015	Oki	20	0	Detail Edit Hapus

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Cari nama/NIM...

Sort by Max SKS

Asc

NIM	Nama	Max SKS	Total SKS	Aksi
M001	Andi	18	3	Detail Edit Hapus
M004	Dina	18	3	Detail Edit Hapus
M008	Hani	18	0	Detail Edit Hapus
M010	Joko	18	0	Detail Edit Hapus
M013	Maya	18	0	Detail Edit Hapus
M016	Putri	18	0	Detail Edit Hapus

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Cari nama/NIM...

Sort by Max SKS

Desc

NIM	Nama	Max SKS	Total SKS	Aksi
M005	Eko	24	3	Detail Edit Hapus
M011	Kiki	24	0	Detail Edit Hapus
M003	Citra	22	3	Detail Edit Hapus
M014	Nina	22	0	Detail Edit Hapus
M006	Fajar	21	0	Detail Edit Hapus
M018	Rudi	21	0	Detail Edit Hapus

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