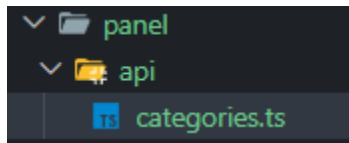


Nama : Prayogi Setiawan
NPM : 22312009
Commit : “yogi: crud categories”

Membuat folder **api** di dalam folder **panel** untuk digunakan sebagai route yang akan memproses data ke database. Di dalamnya kita buat file **categories.ts** sebagai controller untuk memproses semua CRUD dari categories.



Isikan file **categories.ts** seperti berikut.

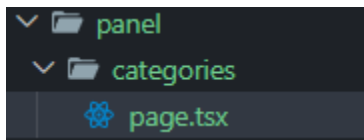
```
1  'use server';
2
3  import { PrismaClient } from '@prisma/client';
4  import slugify from 'slugify';
5
6  const prisma = new PrismaClient();
7
8  export async function createCategory(name: string) {
9    const slug = slugify(name, {lower: true});
10
11    return prisma.category.create({
12      data: {
13        name,
14        slug
15      }
16    });
17  }
18
19  export async function getAllCategories() {
20    return prisma.category.findMany({
21      orderBy: { id: 'desc' },
22      include: {
23        _count: {
24          select: { products: true }
25        }
26      },
27    })
28  }
29
30  export async function getCategoryById(id: number) {
31    return prisma.category.findUnique({
32      where: { id },
33    })
34  }
35
36  export async function updateCategory(id: number, name: string) {
37    const slug = slugify(name, {lower: true});
38
39    return prisma.category.update({
40      where: { id },
41      data: {
42        name,
43        slug
44      }
45    });
46  }
47
48  export async function deleteCategory(id: number) {
49    return prisma.category.delete({
50      where: { id },
51    });
52  }
```

Di atas saya membuat 5 fungsi untuk melakukan CRUD. **createCategory()** untuk membuat data category baru, **getAllCategories()** untuk mengambil semua data category, **getCategoryById()** untuk mengambil category berdasarkan id, **updateCategory()** untuk handle mengubah data category, dan **deleteCategory()** untuk menghapus data category.

Install juga library slugify untuk membuat nama category nya menjadi format slug.

```
npm install slugify
```

Membuat folder **categories** di dalam folder **panel** untuk membuat route `/categories`. Di dalamnya buat juga file **page.tsx** untuk membuat tampilan halamannya.



Membuat isi tampilan categories.

```
1 'use client';
2
3 import React, { useEffect, useState } from "react";
4 import { deleteCategory, getAllCategories } from "../api/categories";
5 import Link from "next/link"
6 import {
7   Breadcrumb,
8   BreadcrumbItem,
9   Button,
10  Table,
11  TableBody,
12  TableCell,
13  TableHead,
14  TableHeadCell,
15  TableRow,
16  Badge
17 } from "flowbite-react";
18 import { HiHome, HiOutlinePencilAlt, HiOutlineTrash, HiPlus } from "react-icons/hi";
```

Menyiapkan semua kebutuhan pengambilan dan wadah data.

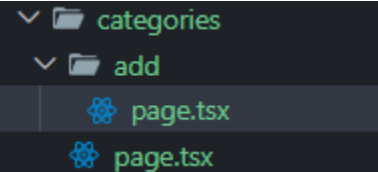
```
1
2 // State untuk menampung data categories
3 const [getCategories, setCategories] = useState({});
4
5 // Fungsi untuk mengambil data categories
6 async function fetchData() {
7   setCategories(await getAllCategories());
8 }
9
10 // Memanggil fungsi fetchData
11 useEffect(() => {
12   fetchData();
13 }, []);
14
15 // Fungsi untuk menghapus data categories
16 const handleDelete = async (id: number) => {
17   if (confirm('Are you sure you want to delete this category?')) {
18     await deleteCategory(id);
19     fetchData();
20   }
21 }
```

Buat tampilan table untuk pengelolaannya dan juga tombol action delete nya.

```
1
2  return (
3    <div>
4      <Breadcrumbs aria-label="Default breadcrumb example" className="mt-3 mb-5">
5        <BreadcrumbItem href="/panel" icon={HiHome}>
6          <Link href="/panel">
7            Dashboard
8          </Link>
9        </BreadcrumbItem>
10       <BreadcrumbItem>Categories</BreadcrumbItem>
11     </Breadcrumbs>
12     <div className="flex justify-between items-center mb-4">
13       <h2 className="text-xl font-medium">Categories</h2>
14       <Button as={Link} href="/panel/categories/add" color="blue">
15         <HiPlus className="mr-2 h-5 w-5" />
16         Add Category
17       </Button>
18     </div>
19     <div className="shadow p-5 rounded">
20       <div className="overflow-x-auto">
21         <Table>
22           <TableHead>
23             <TableHeadCell>#</TableHeadCell>
24             <TableHeadCell>Category Name</TableHeadCell>
25             <TableHeadCell>Total Products</TableHeadCell>
26             <TableHeadCell className="text-center">Action</TableHeadCell>
27           </TableHead>
28           <TableBody className="divide-y">
29             {Object.values(getCategories)?.map((category: any, index: number) => (
30               <TableRow key={category.id} className="bg-white dark:border-gray-700 dark:bg-gray-800">
31                 <TableCell>{index + 1}</TableCell>
32                 <TableCell className="whitespace-nowrap font-medium text-gray-900 dark:text-white">
33                   {category.name}
34                 </TableCell>
35                 <TableCell>
36                   <Badge className="inline" color="indigo">{category._count.products}> Products</Badge>
37                 </TableCell>
38                 <TableCell>
39                   <div className="flex gap-1 justify-center">
40                     <Button as={Link} href={`/${panel}/categories/edit/${category.id}`} color="blue" size="xs">
41                       <HiOutlinePencilAlt className="h-5 w-5" />
42                     </Button>
43                     <Button color="failure" size="xs" onClick={() => handleDelete(category.id)}>
44                       <HiOutlineTrash className="h-5 w-5" />
45                     </Button>
46                   </div>
47                 </TableCell>
48               </TableRow>
49             ))}
50           </TableBody>
51         </Table>
52       </div>
53     </div>
54   </div>
55 )
```

Tambah Category

Buat folder **add** di dalam folder **categories**, lalu buat juga **page.tsx** nya.

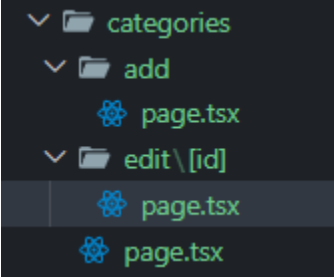


Untuk tampilannya seperti ini.

```
1 'use client';
2
3 import { createCategory } from "../../api/categories";
4 import React, { useState } from "react";
5 import { useRouter } from "next/navigation";
6 import Link from "next/link"
7 import {
8   Breadcrumb,
9   BreadcrumbItem,
10  Button,
11  Label,
12  TextInput,
13 } from "flowbite-react";
14 import { HiHome, HiArrowSmLeft, HiOutlineSave } from "react-icons/hi";
15
16 export default function AddCategory() {
17   const [name, setName] = useState('');
18   const router = useRouter();
19
20   const handleSubmit = async (e: React.FormEvent) => {
21     e.preventDefault();
22     await createCategory(name);
23     router.push('/panel/categories');
24   }
25
26   return (
27     <div>
28       <Breadcrumb aria-label="Default breadcrumb example" className="mt-3 mb-5">
29         <BreadcrumbItem href="/panel" icon={HiHome}>
30           <Link href="/panel">
31             Dashboard
32           </Link>
33         </BreadcrumbItem>
34         <BreadcrumbItem href="/panel/categories">
35           <Link href="/panel/categories">
36             Categories
37           </Link>
38         </BreadcrumbItem>
39         <BreadcrumbItem>Add Admin</BreadcrumbItem>
40       </Breadcrumb>
41       <div className="flex justify-between items-center mb-4">
42         <h2 className="text-xl font-medium">Add Category</h2>
43         <Button as={Link} href="/panel/categories" color="blue">
44           <HiArrowSmLeft className="mr-2 h-5 w-5" />
45           Back
46         </Button>
47       </div>
48       <div className="shadow p-5 rounded">
49         <form onSubmit={handleSubmit}>
50           <div className="mb-3">
51             <div className="mb-2 block">
52               <Label value="Category Name" />
53             </div>
54             <TextInput type="text" value={name} onChange={(e) => setName(e.target.value)} required />
55           </div>
56           <Button type="submit" color="blue">
57             <HiOutlineSave className="mr-2 h-5 w-5" />
58             Save
59           </Button>
60         </form>
61       </div>
62     </div>
63   )
64 };
```

Edit Category

Buat folder **edit** di dalam folder **categories**, lalu folder **[id]** untuk menampung id category nya, dan file **page.tsx** nya.



Buat isi halamannya seperti berikut. Ambil data category berdasarkan id menggunakan fungsi getCategoryById().

```
1  'use client';
2
3  import { getCategoryById, updateCategory } from "../../api/categories";
4  import Link from "next/link"
5  import { useParams, useRouter } from "next/navigation";
6  import React, { useEffect, useState } from "react";
7  import {
8    Breadcrumb,
9    BreadcrumbItem,
10   Button,
11   Label,
12   TextInput,
13 } from "flowbite-react";
14 import { HiHome, HiArrowSmLeft, HiOutlineSave } from "react-icons/hi";
15
16 export default function EditCategory() {
17   const { id } = useParams();
18   const router = useRouter();
19   const [name, setName] = useState('');
20
21   const fetchData = async () => {
22     const category = await getCategoryById(Number(id));
23     if (category) setName(category.name);
24   };
25
26   useEffect(() => {
27     fetchData();
28   }, [id]);
29
30   const handleSubmit = async (e: React.FormEvent) => {
31     e.preventDefault();
32     await updateCategory(Number(id), name);
33     router.push('/panel/categories');
34   };
35
36   return (
37     <div>
38       <Breadcrumb aria-label="Default breadcrumb example" className="mt-3 mb-5">
39         <BreadcrumbItem href="/panel" icon={HiHome}>
40           <Link href="/panel">
41             Dashboard
42           </Link>
43         </BreadcrumbItem>
44         <BreadcrumbItem href="/panel/categories">
45           <Link href="/panel/categories">
46             Categories
47           </Link>
48         </BreadcrumbItem>
49         <BreadcrumbItem>Edit Admin</BreadcrumbItem>
50       </Breadcrumb>
51       <div className="flex justify-between items-center mb-4">
52         <h2 className="text-xl font-medium">Edit Category</h2>
53         <Button as={Link} href="/panel/categories" color="blue">
54           <HiArrowSmLeft className="mr-2 h-5 w-5" />
55           Back
56         </Button>
57       </div>
58       <div className="shadow p-5 rounded">
59         <form onSubmit={handleSubmit}>
60           <div className="mb-3">
61             <div className="mb-2 block">
62               <Label value="Category Name" />
63             </div>
64             <TextInput type="text" value={name} onChange={(e) => setName(e.target.value)} required />
65           </div>
66           <Button type="submit" color="blue">
67             <HiOutlineSave className="mr-2 h-5 w-5" />
68             Save
69           </Button>
70         </form>
71       </div>
72     </div>
73   )
74   };
```