Nama : Prayogi Setiawan

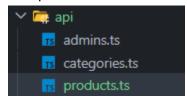
NPM : 22312009

Kelas : "yogi: crud products & fix panel layout"

Sebelumnya **layout.tsx** di folder panel menggunakan *'use client'*, jadi untuk metadata saya menggunakan tag **Head** dari next. Tapi tidak terdeteksi Ketika dijalankan, jadi saya ubah menggunakan *'use server'*, dan saya tambahkan metadata menggunakan **Metadata** dari next.

```
1 export const metadata: Metadata = {
2    title: "Sokraf Panel",
3    description: "Panel for sokraf management",
4    icons: {
5        icon: "/favicon.ico",
6        shortcut: "/favicon.ico",
7    }
8 };
```

Buat file **products.ts** di dalam folder **api** sebagai controller untuk memproses semua CRUD dari products.



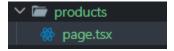
```
• • •
                import { PrismaClient } from '@prisma/client';
import slugify from 'slugify';
import { v4 as uuidv4 } from 'uuid';
import { writeFileSync } from 'fs';
import { join } from 'path';
import { unlink } from 'fs/promises';
               export async function createProduct(data: {
   name: string;
   description: string;
   price: number;
   categoryId: number;
   whatsApp: string;
   image: File;
}
                           {
const uniqueName = `${uuidv4()}-${data.image.name}`;
const imagePath = join(process.cwd(), "public", "images", uniqueName);
const arrayBuffer = await data.image.arrayBuffer();
await writeFileSync(imagePath, Buffer.from(arrayBuffer));
                           return prisma.product.create({
   data: {
      name: data.name,
      slug: slugify(data.name, { lower: true }),
      description: data.description,
      price: data.price,
      categoryId: data.categoryId,
      whatsApp: data.whatsApp,
      image: `images/${uniqueName}`,
},
               export async function getAllProducts() {
   return prisma.product.findMany({
       orderBy: { id: 'desc' },
       include: {
          category: {
               select: { name: true }
          }
       },
    })
}
               export async function getProductById(id: number) {
   return prisma.product.findUnique({
      where: { id },
      include: {
        category: true
      },
    })
}
              export async function updateProduct(id: number, data: {
   name: string,
   description: string,
   price: number,
                           categoryId: number,
whatsApp: string,
              export async function deleteProduct(id: number) {
  const product = await prisma.product.findUnique({
    where: { id },
    select: { image: true }
}
                            if (!product) {
    throw new Error('Product not found');
}
                            where: { 10 }
})
} catch (error) {
   console.error('Error deleting product or image', error);
   throw new Error('Failed to delete product and image');
```

Di atas saya membuat 5 fungsi untuk melakukan CRUD. **createProduct()** untuk membuat data product baru, **getAllProducts()** untuk mengambil semua data product, **getProductById()** untuk mengambil product berdasarkan id, **updateProduct()** untuk handle mengubah data product, dan **deleteProduct()** untuk menghapus data product.

Install juga library uuid untuk membuat nama image nya menjadi lebih unik.

```
npm install uuid
```

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



Membuat isi tampilan products.

```
"" "use client';
"" import React, { useEffect, useState } from "react";
"" import { deleteProduct, getAllProducts } from "../api/products";
"" import Link from "next/link"
"" import { useRouter } from 'next/navigation';
"" import {
"" Breadcrumb,
"" BreadcrumbItem,
"" Button,
"" Table,
"" TableBody,
"" TableBody,
"" TableHead,
"" T
```

Menyiapkan semua kebutuhan pengambilan dan wadah data.

```
const [getProducts, setProducts] = useState({});
const router = useRouter();

async function fetchData() {
    setProducts(await getAllProducts());
}

useEffect(() ⇒ {
    fetchData();
}, []);

const handleDelete = async (id: number) ⇒ {
    if (confirm('Are you sure you want to delete this product?')) {
        await deleteProduct(id);
        fetchData();
}

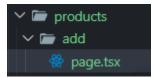
function formatRupiah(angka: number): string {
    if (isNaN(angka)) {
        return '';
    }

    return 'Rp ' + angka.toLocaleString('id-ID');
}
```

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

Tambah Product

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



```
Breadcrumb,
BreadcrumbItem,
       FileInput,
} from "flowbite-react";
import { HiHome, HiArrowSmLeft, HiOutlineSave } from "react-icons/hi";
import React, { useEffect, useState } from "react";
import { useRouter } from "next/navigation";
import { createProduct } from "../../api/products";
import { getAllCategories } from "../../api/categories";
        export default function AddProduct() {
   const [categories, setCategories] = useState<{ id: number; name: string }[]>([]);
                       const fetchCategories = async () ⇒ {
  const data = await getAllCategories();
  setCategories(data);
                        name: string,
description: string,
                        price: string,
                        whatsApp: string,
image: File | null,
                        categoryId: "",
whatsApp: "",
                const handleChange = (e: React.ChangeEvent<HTMLInputElement | HTMLTextAreaElement>) \Rightarrow {
  const { name, value } = e.target;
  setForm({ ... form, [name]: value});
                 const handleFileChange = (e: React.ChangeEvent<HTMLInputElement>) ⇒ {
  if (e.target.files?.[0]) {
    setForm({ ... form, image: e.target.files[0] });
}
                         if (!form.image) {
    alert("Please upload an image.");
                         const data = {
   name: form.name,
   description: form.description,
```

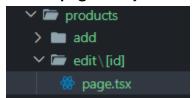
```
readcrumb>
cedcrumb>
className="flex justify-between items-center mb-4">
className="flex justify-between items-center mb-4">
className="text-xl font-medium">Add Product</h2>
cButton as={Link} href="/panel/products" color="blue">
cHiArrowSmLeft className="mr-2 h-5 w-5" />
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```

Edit Product

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



Buat isi halamannya seperti berikut. Ambil data product berdasarkan id menggunakan fungsi getProductById().

```
import Link from "next/link"
import {
       import { HiHome, HiArrowSmLeft, HiOutlineSave } from "react-icons/hi";
import React, { useEffect, useState } from "react";
import { useRouter, useParams } from "next/navigation";
import { updateProduct, getProductById } from "../../api/products";
import { getAllCategories } from "../../api/categories";
              const [categories, setCategories] = useState<{ id: number; name: string }[]>([]);
const [form, setForm] = useState<{</pre>
                       name: string,
description: string,
                       categoryId: string,
whatsApp: string,
               const router = useRouter();
const { id } = useParams();
                       const fetchProduct = async () ⇒ {
  const product = await getProductById(Number(id));
  if (product) {
                                            name: product.name,
description: product.description,
                                               categoryId: product.categoryId.toString(),
whatsApp: product.whatsApp,
                        const fetchCategories = async () ⇒ {
  const data = await getAllCategories();
  setCategories(data);
                const handleChange = (e: React.ChangeEvent<HTMLInputElement | HTMLTextAreaElement>) ⇒ {
  const { name, value } = e.target;
  setForm({ ... form, [name]: value });
                               price: parseInt(form.price),
categoryId: parseInt(form.categoryId, 10),
whatsApp: form.whatsApp,
                        await updateProduct(Number(id), data);
```

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