Made By: Shahzain Ali
Institute: GIAIC
Slot: Saturday

1. API Integration Process

- **API Used:** Product API (https://next-ecommerce-template-4.vercel.app/api/product)
- **Steps:**
    1. Used Axios to fetch product data from the API.
    2. Divided the products into batches (batch size: 10) for stability and efficiency.
    3. Processed each product according to the Sanity CMS schema and uploaded it using client.create().
    4. Uploaded images to Sanity separately using uploadImageToSanity and associated the _id with the product.

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2. Schema Adjustments

- Made the following changes to the Sanity CMS schema for better functionality:
    - Added stockLevel to manage product stock.
    - Added category to define product categories like "Chair" or "Sofa".

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3. Migration Steps and Tools

- **Steps:**
    1. Fetched data from the old system (API).
    2. Uploaded products and their images in batches to Sanity CMS.
    3. Deleted old products in bulk using a Sanity query and transaction.delete().
- **Tools Used:** Axios (for API requests), Sanity Client (for CMS integration).

Outcome:

- Successfully migrated the data, populated Sanity CMS, and optimized the process with batch uploads and a cleanup setup.

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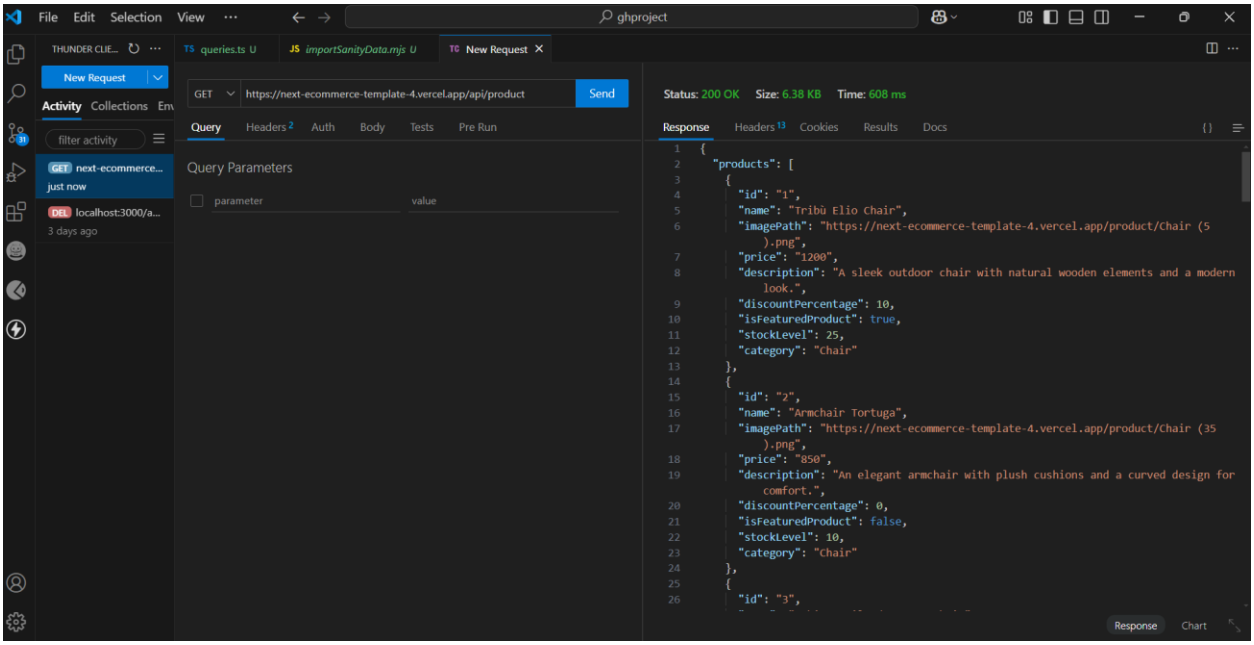

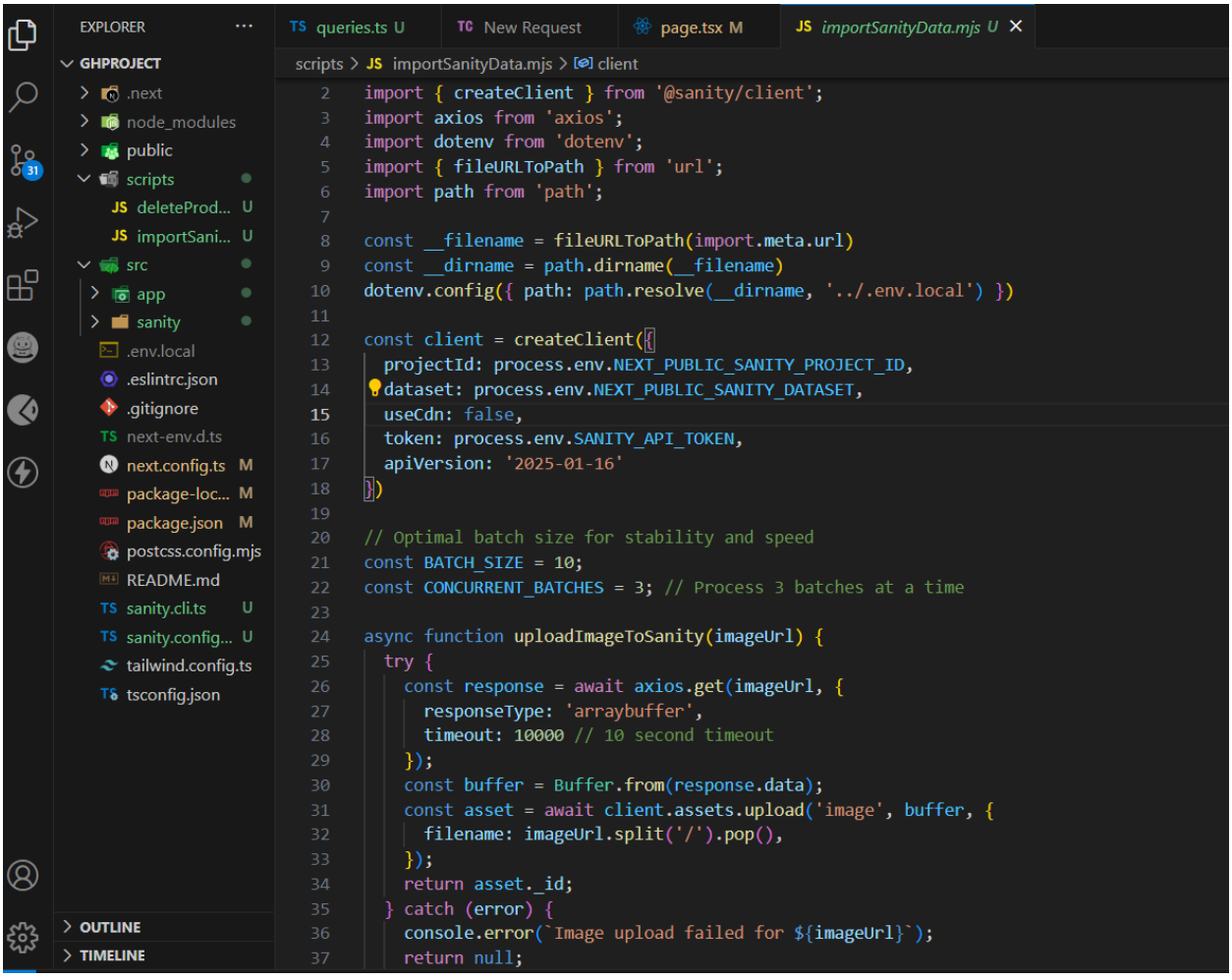

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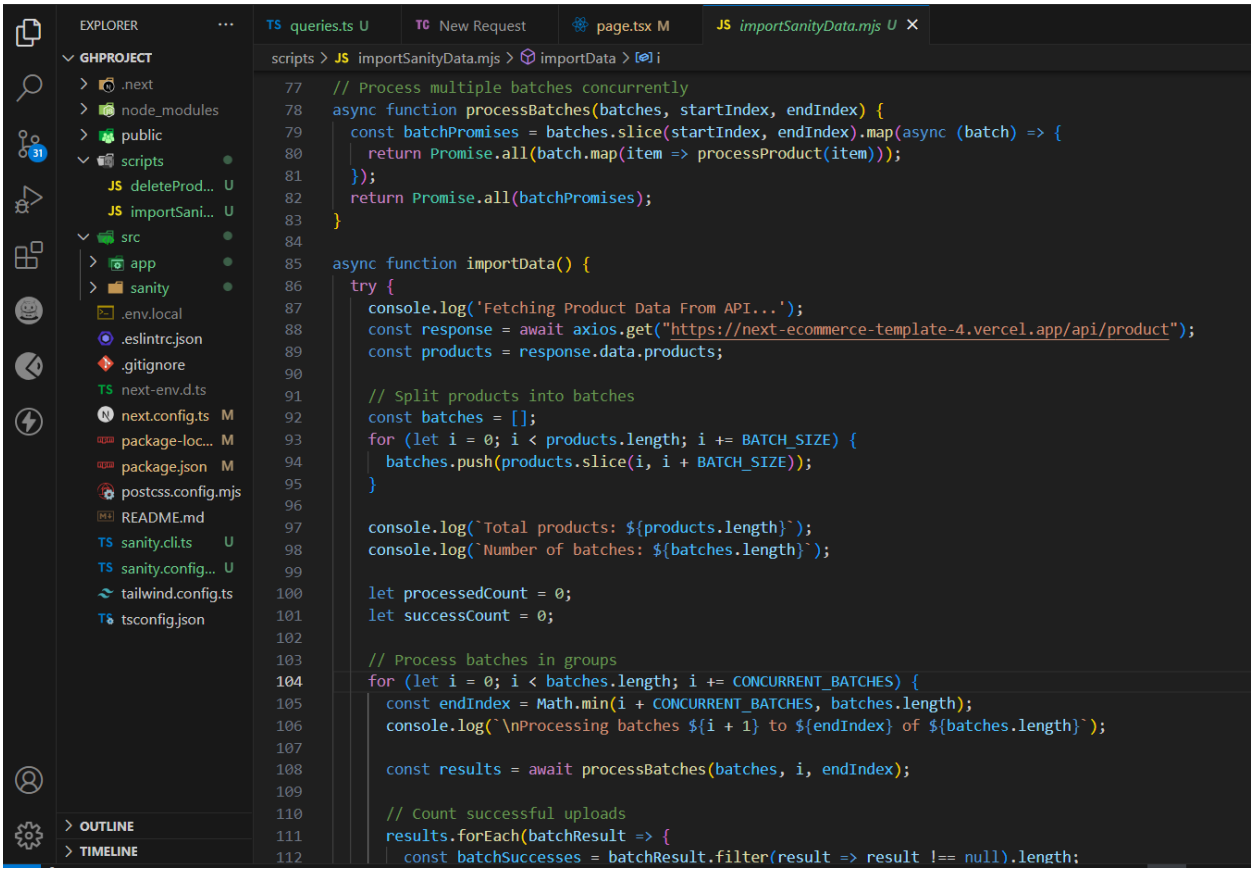

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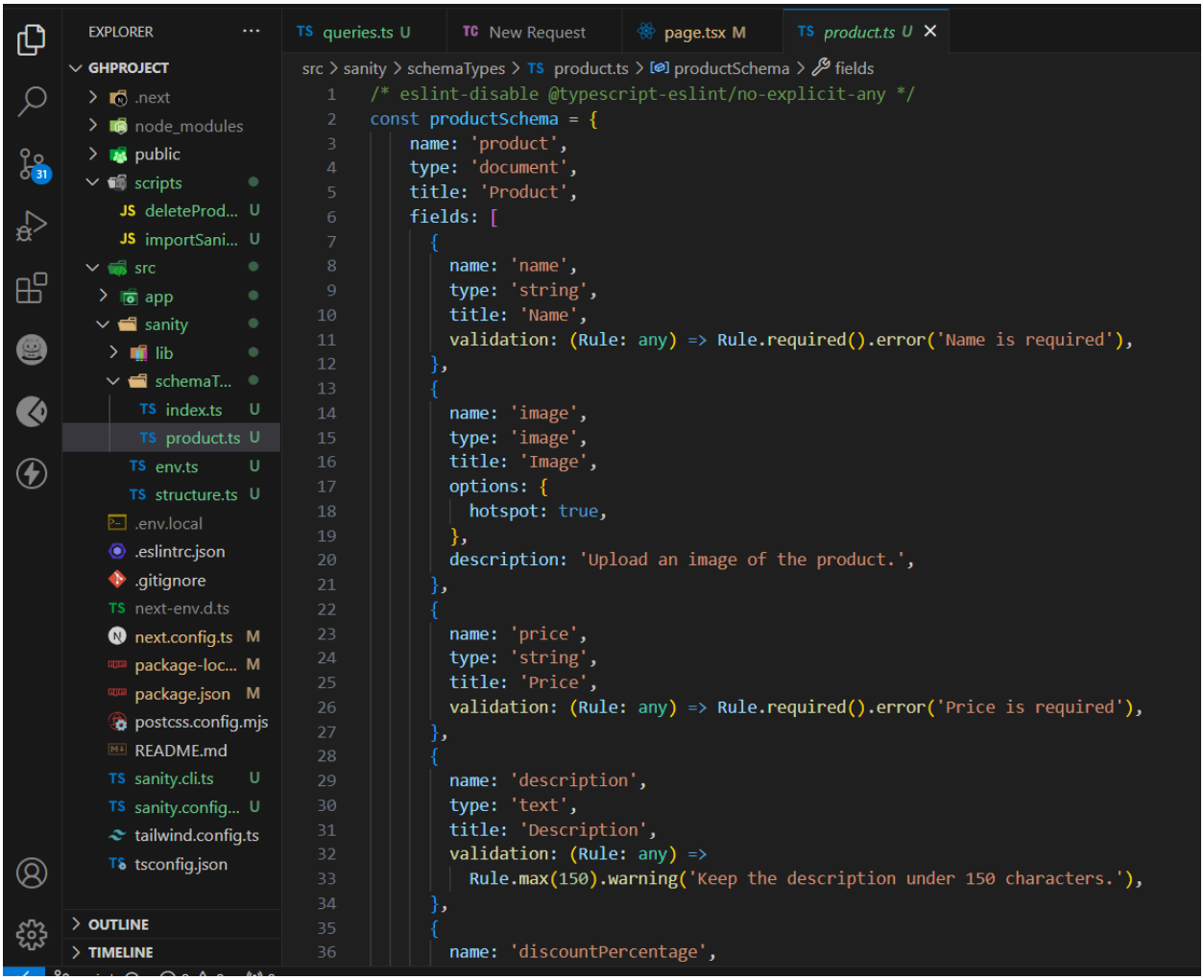

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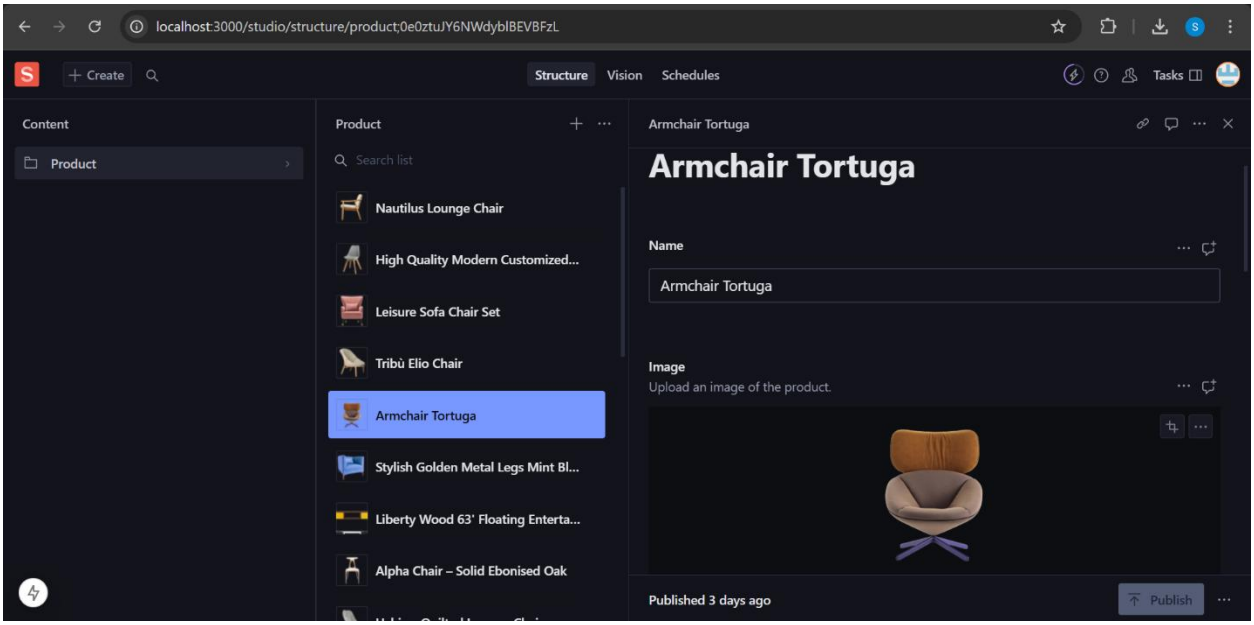
```
D:\Governer House Projects\E-commerce Project\ghproject>npm run import-data

> ghproject@0.1.0 import-data
> ts-node scripts/importSanityData.mjs

Fetching Product Data From API...
Total products: 21
Number of batches: 3

Processing batches 1 to 3 of 3
✓ Uploaded: Replica Hans Wegner Wishbone Chair
✓ Uploaded: Nautilus Lounge Chair
✓ Uploaded: Alpha Chair – Solid Ebonised Oak
✓ Uploaded: Liberty Wood 63' Floating Entertainment Center
✓ Uploaded: Hans Wegner Style Three-Legged Shell Chair
✓ Uploaded: Cantilever Chair
✓ Uploaded: Uchiwa Quilted Lounge Chair
✓ Uploaded: High Quality Modern Customized Plastic Chair
✓ Uploaded: Sobuy Blue Folding Chair Wooden Padded
✓ Uploaded: Matilda Velvet Chair – Pink
✓ Uploaded: Futuristic Sleek Modern Chair
✓ Uploaded: Leisure Sofa Chair Set
✓ Uploaded: Nordic Net Red Chair
✓ Uploaded: Tribù Elio Chair
✓ Uploaded: Rapson Thirty-Nine Guest Chair
✓ Uploaded: Cozy Armchair
✓ Uploaded: Diondre Chair - Tuft Button - Acrylic Legs
✓ Uploaded: Varmora Plastic Chair Solid
✓ Uploaded: Stylish Golden Metal Legs Mint Blue Fabric Velvet Sofa Leisure Armchair
✓ Uploaded: Armchair Tortuga
✓ Uploaded: Luxury Flower Shell Sofa Chair
Progress: 21/21 (21 successful)
```



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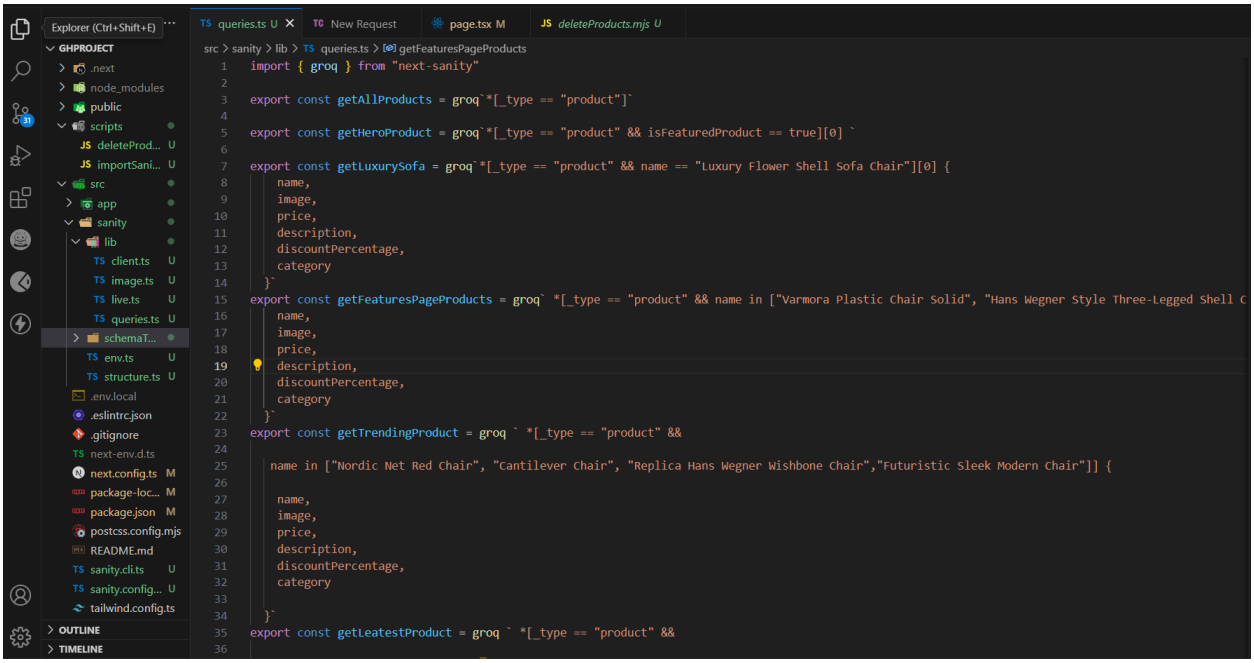
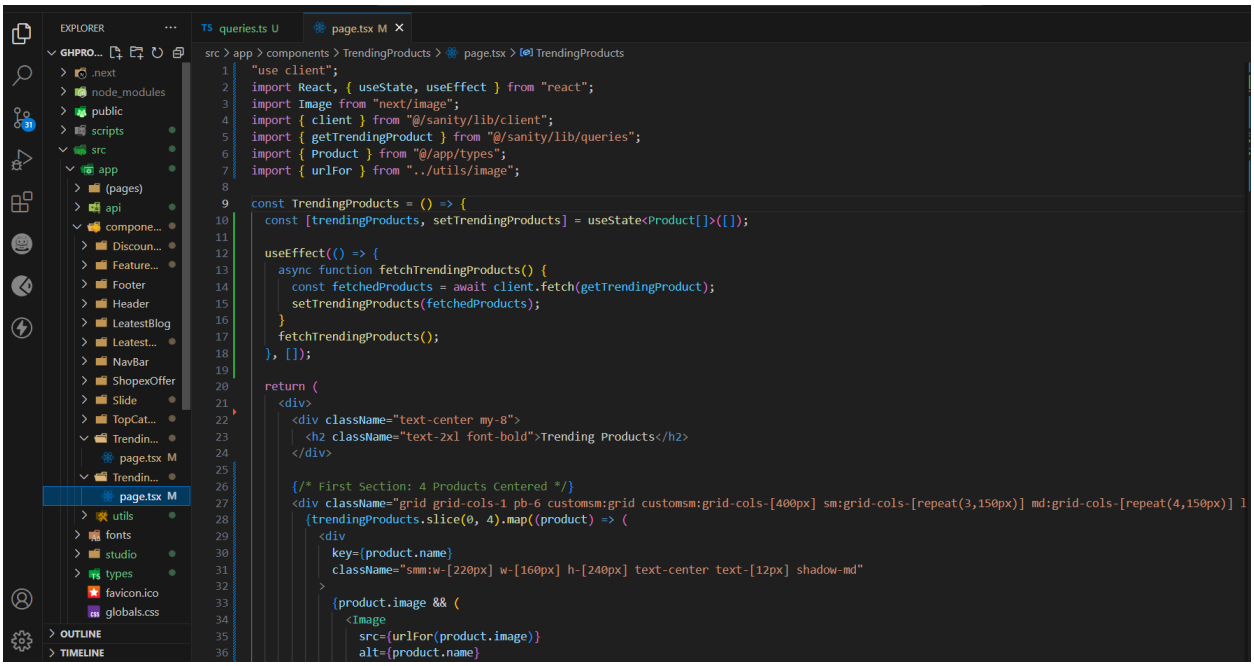


```
import { groq } from "next-sanity"

export const getAllProducts = groq`*[_type == "product"]`

export const getHeroProduct = groq`*[_type == "product" && isFeaturedProduct == true][0] `

export const getLuxurySofa = groq`*[_type == "product" && name == "Luxury Flower Shell Sofa Chair"][0] {
    name,
    image,
    price,
    description,
    discountPercentage,
    category
  }`
export const getFeaturesPageProducts = groq` *[_type == "product" && name in ["Varmora Plastic Chair Solid", "Hans Wegner Style Three-Legged Shell C
    name,
    image,
    price,
    description,
    discountPercentage,
    category
  }`
export const getTrendingProduct = groq ` *[_type == "product" &&

  name in ["Nordic Net Red Chair", "Cantilever Chair", "Replica Hans Wegner Wishbone Chair","Futuristic Sleek Modern Chair"]] {

    name,
    image,
    price,
    description,
    discountPercentage,
    category

  }`
export const getLeatestProduct = groq ` *[_type == "product" &&
```



```
"use client";
import React, { useState, useEffect } from "react";
import Image from "next/image";
import { client } from "@/sanity/lib/client";
import { getTrendingProduct } from "@/sanity/lib/queries";
import { Product } from "@/app/types";
import { urlFor } from "../utils/image";

const TrendingProducts = () => {
  const [trendingProducts, setTrendingProducts] = useState<Product[]>([]);

  useEffect(() => {
    async function fetchTrendingProducts() {
      const fetchedProducts = await client.fetch(getTrendingProduct);
      setTrendingProducts(fetchedProducts);
    }
    fetchTrendingProducts();
  }, []);

  return (
    <div>
      <div className="text-center my-8">
        <h2 className="text-2xl font-bold">Trending Products</h2>
      </div>

      {/* First Section: 4 Products Centered */}
      <div className="grid grid-cols-1 pb-6 customsm:grid customsm:grid-cols-[400px] sm:grid-cols-[repeat(3,150px)] md:grid-cols-[repeat(4,150px)] l
        {trendingProducts.slice(0, 4).map((product) => (
          <div
            key={product.name}
            className="smm:w-[220px] w-[160px] h-[240px] text-center text-[12px] shadow-md"
          >
            {product.image && (
              <Image
                src={urlFor(product.image)}
                alt={product.name}
```

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