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.

2. Schema Adjustments

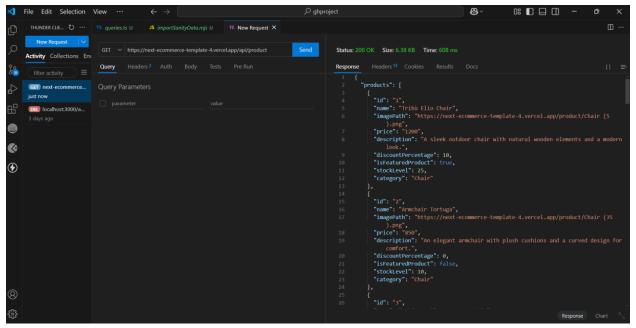
- Made the following changes to the Sanity CMS schema for better functionality:
 - Added stockLevel to manage product stock.
 - o Added category to define product categories like "Chair" or "Sofa".

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.



```
EXPLORER
                             TS queries.ts U
                                                                                 JS importSanityData.mjs U X
                                                                 🏶 page.tsx M

∨ GHPROJECT

                              scripts > JS importSanityData.mjs > [∅] client
                                     import { createClient } from '@sanity/client';
       > node_modules
       > 🔞 public
                                    import { fileURLToPath } from 'url';
       import path from 'path';
          JS deleteProd... U
                                    const __filename = fileURLToPath(import.meta.url)
                                    const __dirname = path.dirname(__filename)
       B
                                    dotenv.config({ path: path.resolve(__dirname, '../.env.local') })
        > 🐻 app
        > sanity
                                    const client = createClient({
                                      projectId: process.env.NEXT PUBLIC SANITY PROJECT ID,
         eslintrc.json
                                     dataset: process.env.NEXT_PUBLIC_SANITY_DATASET,
.gitignore
                                      token: process.env.SANITY_API_TOKEN,
                                      apiVersion: '2025-01-16'
         N next.config.ts M
         package-loc... M
         package.json M
          postcss.config.mjs
         ™ README.md
                                    const CONCURRENT BATCHES = 3; // Process 3 batches at a time
                                     async function uploadImageToSanity(imageUrl) {
         tailwind.config.ts
                                        const response = await axios.get(imageUrl, {
         T& tsconfig.json
                                          responseType: 'arraybuffer',
timeout: 10000 // 10 second timeout
                                         const buffer = Buffer.from(response.data);
                                         const asset = await client.assets.upload('image', buffer, {
                                           filename: imageUrl.split('/').pop(),
(8)
                                         return asset. id;
     > OUTLINE
                                         console.error(`Image upload failed for ${imageUrl}`);
     > TIMELINE
```

```
EXPLORER
                                                                      page.tsx M
                                                                                        JS importSanityData.mjs U X

∨ GHPROJECT

       > 👩 .next
       > node_modules
                                       async function processBatches(batches, startIndex, endIndex) {
                                        const batchPromises = batches.slice(startIndex, endIndex).map(async (batch) => {
    return Promise.all(batch.map(item => processProduct(item)));
       > 🜃 public
       JS deleteProd... U
           JS importSani... U
        🗸 🐗 src
                                       async function importData() {
        > sanity
                                           const response = await axios.get("https://next-ecommerce-template-4.vercel.app/api/product");
                                           const products = response.data.products;
          .gitignore
          N next.config.ts M
          package-loc... M
package.json M
                                            for (let i = 0; i < products.length; i += BATCH_SIZE) {</pre>
                                             batches.push(products.slice(i, i + BATCH_SIZE));
          postcss.config.mjs
                                           console.log(`Total products: ${products.length}`);
console.log(`Number of batches: ${batches.length}`);
          tailwind.config.ts
                                            let processedCount = 0;
          T& tsconfig.json
                                            for (let i = 0; i < batches.length; i += CONCURRENT_BATCHES) {</pre>
                                              const endIndex = Math.min(i + CONCURRENT_BATCHES, batches.length);
                                              console.log(\nProcessing batches \{i + 1\} to \{endIndex\} of \{batches.length\});
                                              const results = await processBatches(batches, i, endIndex);
(8)
      OUTLINE
                                              results.forEach(batchResult => {
      > TIMELINE
                                                 const batchSuccesses = batchResult.filter(result => result !== null).length;
```

```
EXPLORER
                                                                    🏶 page.tsx M
                               src \gt sanity \gt schemaTypes \gt TS product.ts \gt [4] productSchema \gt \rlap{/}{\mathcal{P}} fields

∨ GHPROJECT

                                2 const productSchema = {
       > node_modules
                                        name: 'product',
type: 'document',
       > 🌃 public
       title: 'Product',
          JS deleteProd... U
                                          fields: [
          JS importSani... U
                                               name: 'name',
                                              type: 'string',
title: 'Name',
        > 👼 app

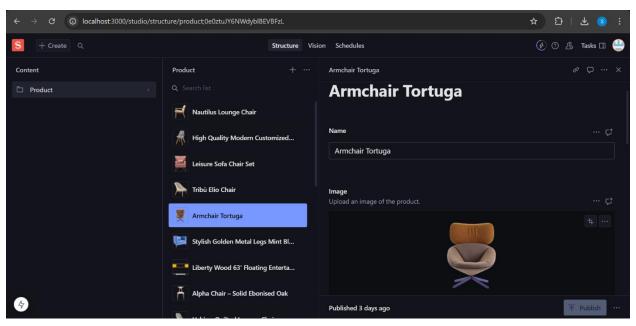
✓ 

sanity

                                               validation: (Rule: any) => Rule.required().error('Name is required'),
         > 👊 lib
         ∨ 📹 schemaT... 🌘
name: 'image',
                                               type: 'image',
title: 'Image',
①
                                               options: {
                                               hotspot: true,
         eslintrc.json
                                               description: 'Upload an image of the product.',
         .gitignore
                                               name: 'price',
         N next.config.ts M
                                               type: 'string',
          package-loc... M
                                               title: 'Price',
            package.json M
                                               validation: (Rule: any) => Rule.required().error('Price is required'),
          postcss.config.mjs
          ■ README.md
                                               name: 'description',
                                               type: 'text',
          tailwind.config.ts
                                               validation: (Rule: any) =>
          T& tsconfig.json
(8)
                                                 Rule.max(150).warning('Keep the description under 150 characters.'),
     > OUTLINE
     > TIMELINE
                                               name: 'discountPercentage',
```

Institute: GIAIC Slot: Saturday

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)



```
Explorer (Ctrl+Shift+E)

√ GHPROJECT

      > node_modules
      > 💶 public
96
      export const getHeroProduct = groq`*[_type == "product" && isFeaturedProduct == true][0]
                                export const getLuxurySofa = groq`*[_type == "product" && name == "Luxury Flower Shell Sofa Chair"][0] {
9
price,
description,
discountPercentage,
category
        eslintrc.json
        .gitignore
                                   name in ["Nordic Net Red Chair", "Cantilever Chair", "Replica Hans Wegner Wishbone Chair", "Futuristic Sleek Modern Chair"]] {
        N next.config.ts M
         package-loc... M
          ■ README.md
     > TIMELINE
```

```
<sub>C</sub>
                         EXPLORER
                    ∨ GHPRO... [ CT U ☐ src > app > components > TrendingProducts > ∰ page.tsx > Ø TrendingProducts
                                                                                                                              "use client";
import React, { useState, useEffect } from "react";
                          > node_modules
                                                                                                                               import React, { useState, useFrect } 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";
                         > n public
> n scripts
                               pages)

ignormalized (pages)

ignormalized (
                                                                                                                               const TrendingProducts = () => {
  const [trendingProducts, setTrendingProducts] = useState<Product[]>([]);
 9
                                                                                                                                     useEffect(() => {
    async function fetchTrendingProducts() {
        const FetchedProducts = await client.fetch(getTrendingProduct);
        setTrendingProducts(fetchedProducts);
                                     > iii Feature...
•
                                      > 📹 Header
                                                                                                                                               fetchTrendingProducts():
                                      > iii Leatest...
                                    > Slide Slide TopCat...

✓ 

Trendin...

                                                                                                                                                      wey={product.name}
className="smm:w-[220px] w-[160px] h-[240px] text-center text-[12px] shadow-md"
                                  > 📹 studio
                                                                                                                                                                           {product.image && (
                                         globals.css
                                                                                                                                                                                       <Image
src={urlFor(product.image)}
alt={product.name}</pre>
                     > OUTLINE
```

