



HACKATHON 3

DAY-3

API INTEGRATION AND DATA MIGRATION:

Day 3 covers API integration and data migration into Sanity CMS for a marketplace backend. Participants will connect APIs, adjust schemas, and import data from sources like Shopify, Magento, and Woo Commerce. They will also integrate APIs in Next.js, validate data, and follow best practices

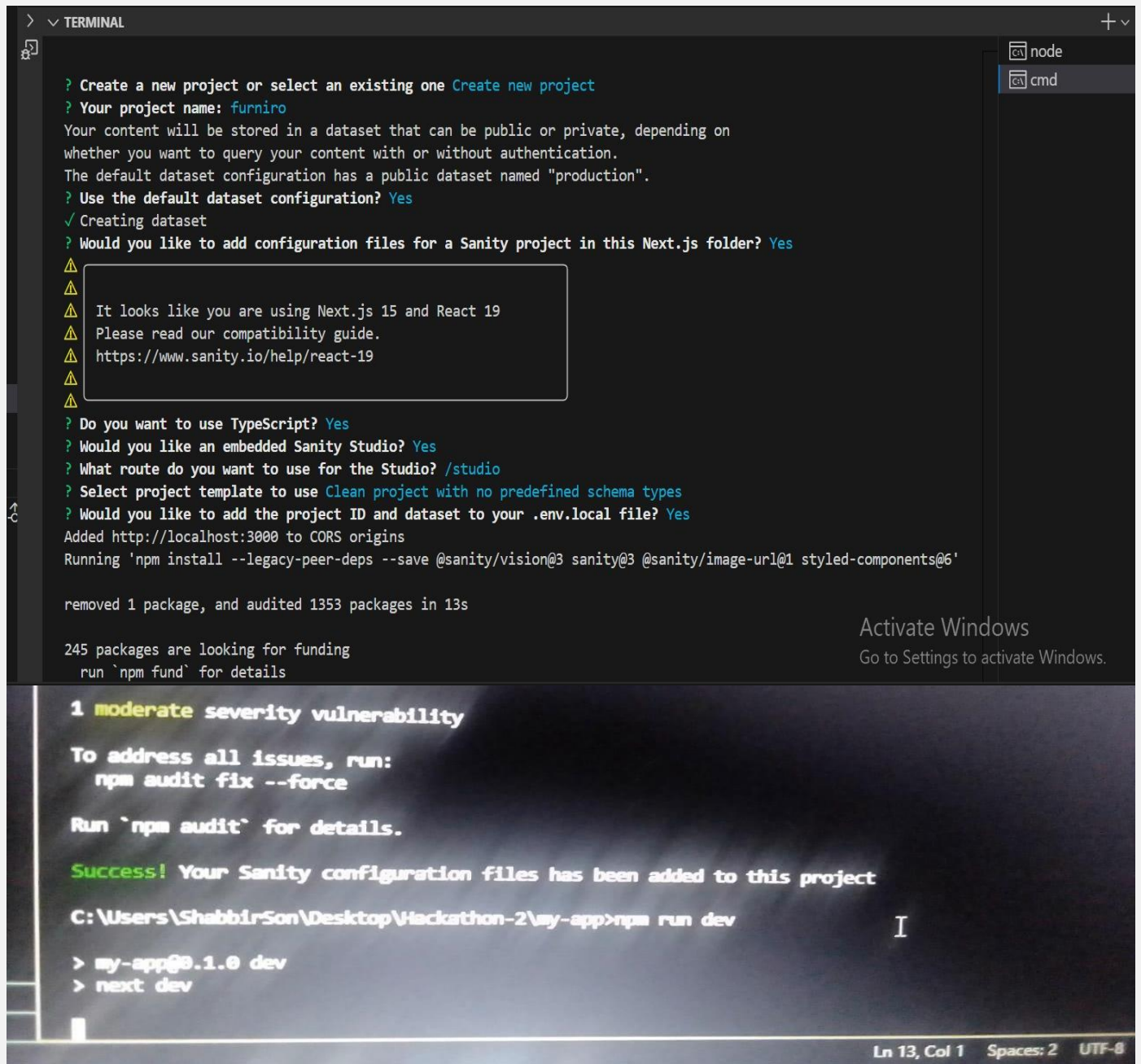
NAME: NIMRA RAZI

ROLL NO.: 0045228

QUARTER 2

Document Title: "Day 3 - API Integration Report - [Comforty E-commerce]"

Creation of Sanity Project:



```
> ✓ TERMINAL
? Create a new project or select an existing one Create new project
? Your project name: furniro
Your content will be stored in a dataset that can be public or private, depending on
whether you want to query your content with or without authentication.
The default dataset configuration has a public dataset named "production".
? Use the default dataset configuration? Yes
✓ Creating dataset
? Would you like to add configuration files for a Sanity project in this Next.js folder? Yes
⚠ It looks like you are using Next.js 15 and React 19
⚠ Please read our compatibility guide.
⚠ https://www.sanity.io/help/react-19
? Do you want to use TypeScript? Yes
? Would you like an embedded Sanity Studio? Yes
? What route do you want to use for the Studio? /studio
? Select project template to use Clean project with no predefined schema types
? Would you like to add the project ID and dataset to your .env.local file? Yes
Added http://localhost:3000 to CORS origins
Running 'npm install --legacy-peer-deps --save @sanity/vision@3 sanity@3 @sanity/image-url@1 styled-components@6'

removed 1 package, and audited 1353 packages in 13s

245 packages are looking for funding
  run `npm fund` for details

1 moderate severity vulnerability

To address all issues, run:
  npm audit fix --force

Run `npm audit` for details.

Success! Your Sanity configuration files has been added to this project

C:\Users\ShabbirSon\Desktop\Hackathon-2\my-app>npm run dev

> my-app@0.1.0 dev
> next dev

Ln 13, Col 1 Spaces: 2 UTF-8
```

Sanity Project:

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Binte Razi

sanity project day-3

30 days left in trial

SD

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sanity project day-3

PLAN

Growth Trial

STATUS

Active

PROJECT ID

tgnefe70

Getting started

Overview

Members

Studios

Datasets

Access

Activity

Usage

Plan

API

Settings

Usage

View more

0 / 1m API CDN Requests	41 / 250k API Requests
2.3 MB / 100 GB Assets	73.9 KB / 100 GB Bandwidth
1 / 2	18 / 10k Documents

Project members

View all

Invite your first team member

+ Invite project members

What's new

Sanity Create Content Mapping, Visual Editing, and Content Releases

CORS Origins:

S

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30 days left in trial

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Webhooks

CORS origins

Tokens

CORS origins

Hosts that can connect to the project API.

ORIGIN	CREDENTIALS	CREATED	
http://localhost:3000	Allowed	22 hours	
http://localhost:3333	Allowed	22 hours	

+ Add CORS origin

API Token Creation:

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30 days left in trial

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Tokens

Tokens

+ Add API token

Tokens are used to authenticate apps and scripts to access project data.

NAME	PERMISSIONS	CREATED
------	-------------	---------

Name

Examples: "Employee import", "Website preview" or "PDF generator".

Token

Permissions

Choose the access privileges for the token.

Contributor

☐ Read and write access to draft content within all datasets, with no access to project settings. (Tokens: read+write drafts)

☐ Deploy Studio (Token only)

Access to deploy Sanity Studio and GraphQL APIs to our hosted service.

Developer

☒ Read and write access to all datasets, with access to project settings for developers. (Tokens: read+write)

Editor

☐ Read and write access to all datasets, with limited access to project settings. (Tokens: read+write)

Viewer

/hat's new

anity Create Content Mapping, Visual Editing,

nd Content Releases

API Token:

Tokens

+ Add API token

Tokens are used to authenticate apps and scripts to access project data.

NAME	PERMISSIONS	CREATED
Token	Developer	0 seconds

Copy the token below – this is your only chance to do so!

skCc8ZKrwUYjrnwCeAZxkr05XZK3qE4TZ3AfcnwCiI0ZLNcMxb590qzhLP9gYFW3Xj1mdC11cSOKxtD8Gh4ZEsn1db3assSq1VNPOk3n5tdEeKP46AI7czRFGAcWLK0szv8WqZiRW7DV8xYDf0kjiyNJ21If8INGlIF4HH1erNP

IKzke1u5

Product.ts File:

```
my-app > src > sanity > schemaTypes > TS products > productSchema > fields
1  import { defineType } from "sanity";
2
3  export const productSchema = defineType({
4    name: "products",
5    title: "Products",
6    type: "document",
7    fields: [
8      {
9        name: "title",
10       title: "Product Title",
11       type: "string",
12     },
13     {
14       name: "price",
15       title: "Price",
16       type: "number",
17     },
18     {
19       title: "Price without Discount",
20       name: "priceWithoutDiscount",
21       type: "number",
22     },
23     {
24       name: "badge",
25       title: "Badge",
26       type: "string",
27     },
28     {
29       name: "image",
30       title: "Product Image",
31       type: "image",
32     },
33     {
34       name: "category",
35       title: "Category",
36       type: "reference"
```

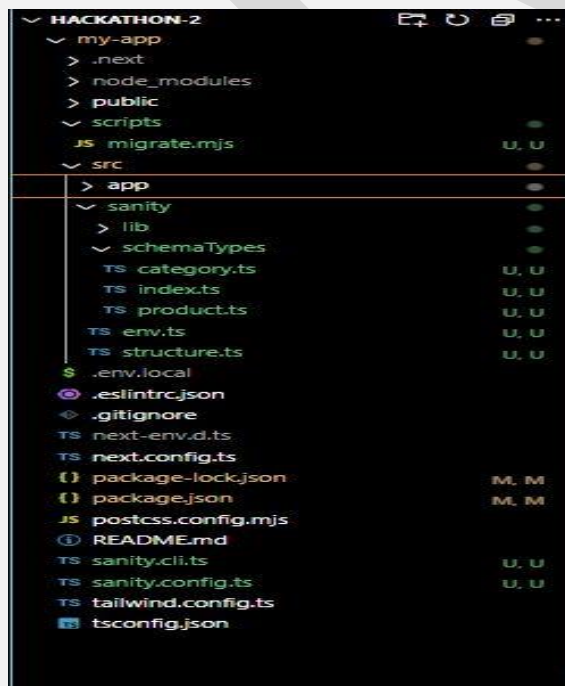
Package.json File:

```
my-app > package.json > type
1  {
2    "name": "my-app",
3    "version": "0.1.0",
4    "private": true,
5    "type": "module",
6    "scripts": {
7      "dev": "next dev",
8      "build": "next build",
9      "start": "next start",
10     "lint": "next lint",
11     "migrate": "node scripts/migrate.mjs"
12   },
13   "dependencies": {
14     "@sanity/image-url": "^1.1.0",
15     "@sanity/vision": "^3.72.1",
16     "dotenv": "^16.4.7",
17     "next": "15.0.4",
18     "next-sanity": "^9.8.47",
19     "react": "^19.0.0",
20     "react-dom": "^19.0.0",
21     "sanity": "^3.72.1",
22     "styled-components": "^6.1.14",
23     "swiper": "^11.1.15"
24   },
25   "devDependencies": {
```

Migrate.mjs File:

```
my-app > scripts > JS migrate.mjs > ...
1 // Import environment variables from .env.local
2 import dotenv from "dotenv";
3 dotenv.config({ path: ".env.local" });
4
5 // Import the Sanity client to interact with the Sanity backend
6 import { createClient } from "@sanity/client";
7
8 // Load required environment variables
9 const {
10   NEXT_PUBLIC_SANITY_PROJECT_ID, // Sanity project ID
11   NEXT_PUBLIC_SANITY_DATASET, // Sanity dataset (e.g., "production")
12   NEXT_PUBLIC_SANITY_AUTH_TOKEN, // Sanity API token
13   BASE_URL = "https://giaic-hackathon-template-08.vercel.app", // API base URL for products and categories
14 } = process.env;
15
16 // Check if the required environment variables are provided
17 if (!NEXT_PUBLIC_SANITY_PROJECT_ID || !NEXT_PUBLIC_SANITY_AUTH_TOKEN) {
18   console.error("Missing required environment variables. Please check your .env.local file.");
19   process.exit(1); // Stop execution if variables are missing
20 }
21
22 // Create a Sanity client instance to interact with the target Sanity dataset
23 const targetClient = createClient({
24   projectId: NEXT_PUBLIC_SANITY_PROJECT_ID, // Your Sanity project ID
25   dataset: NEXT_PUBLIC_SANITY_DATASET || "production", // Default to "production" if not set
26   useCdn: false, // Disable CDN for real-time updates
```

Folder Structure:

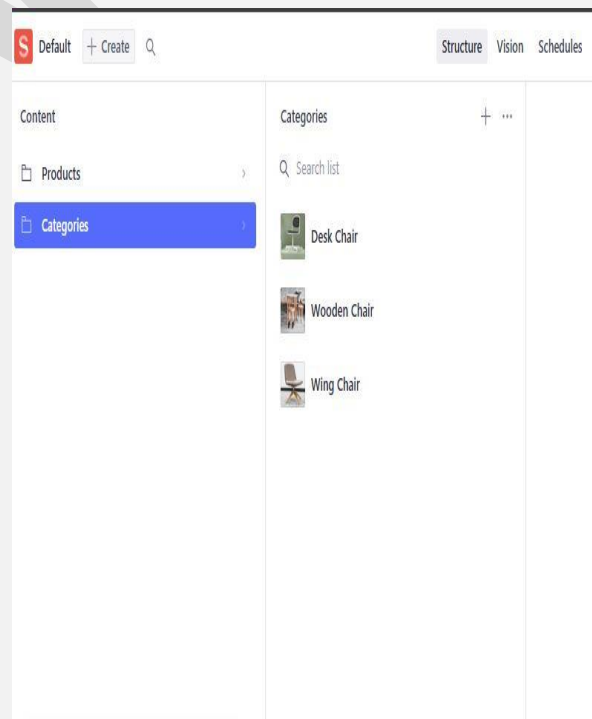
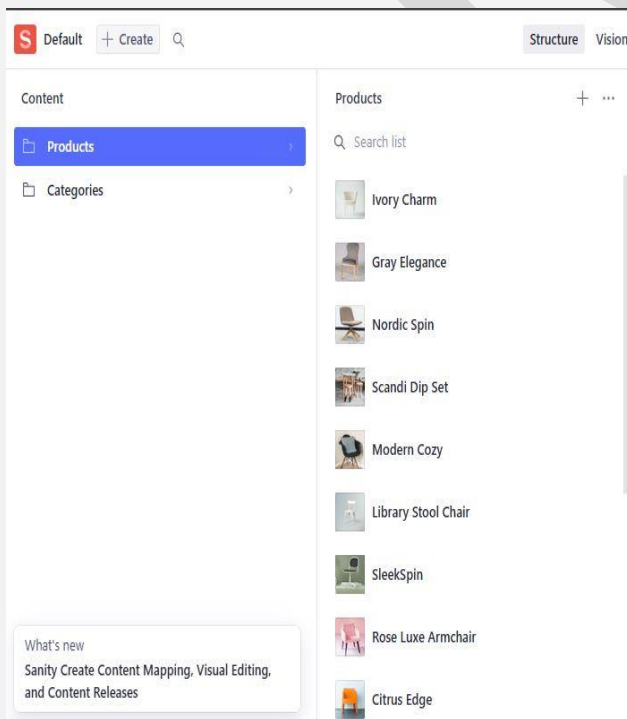


Data Migration Process:

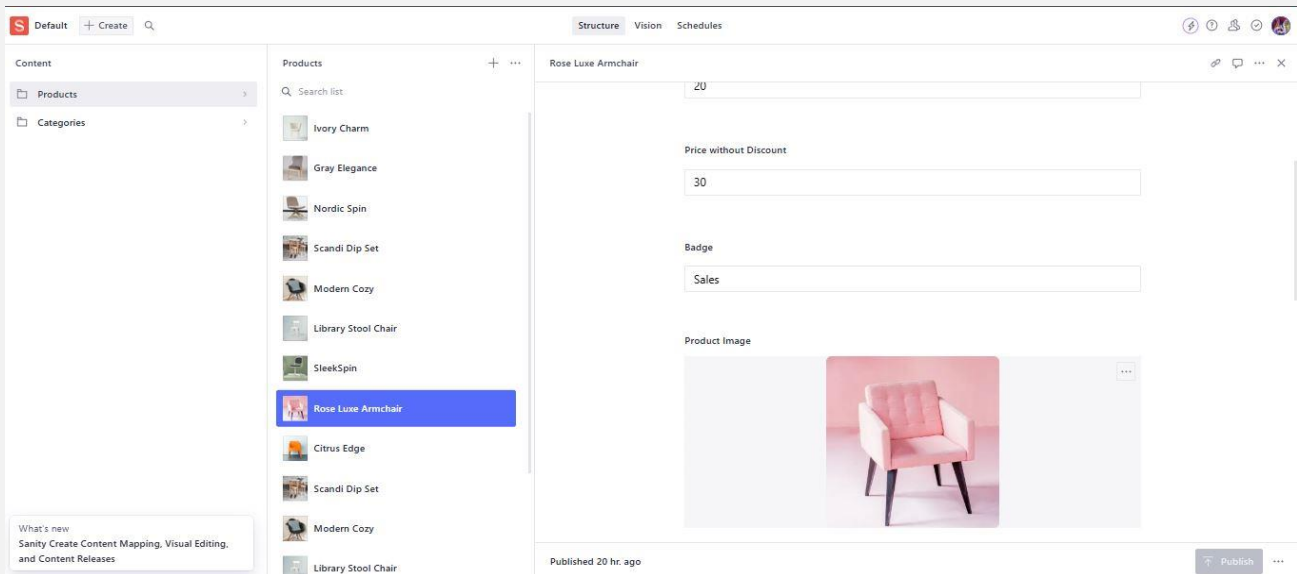
```
> my-app@0.1.0 migrate
> node scripts/migrate.mjs

Starting data migration...
Migrating category: Wing Chair
Migrated category: Wing Chair (ID: 26fd7176-3c4d-40fc-a73a-3b85a9b5e15f)
Migrating category: Wooden Chair
Migrated category: Wooden Chair (ID: 407a8583-6203-4f61-becf-8e8b4c5461b6)
Migrating category: Desk Chair
Migrated category: Desk Chair (ID: b5710116-09af-4d0e-aa9a-dcd02fe919a9)
Migrating product: SleekSpin
Migrated product: SleekSpin (ID: H1ItewPDpOUAvBwTNw09F)
Migrating product: Citrus Edge
Migrated product: Citrus Edge (ID: H1ItewPDpOUAvBwTNw0N1)
Migrating product: Rose Luxe Armchair
Migrated product: Rose Luxe Armchair (ID: H1ItewPDpOUAvBwTNw0CH)
Migrating product: Library Stool Chair
Migrated product: Library Stool Chair (ID: KJCWkx06ZGkLJ9X0gM5aqD)
Migrating product: Modern Cozy
Migrated product: Modern Cozy (ID: KJCWkx06ZGkLJ9X0gM5b95)
Migrating product: Scandi Dip Set
Migrated product: Scandi Dip Set (ID: KJCWkx06ZGkLJ9X0gM5b2V)
Migrating product: Citrus Edge
Migrated product: Citrus Edge (ID: H1ItewPDpOUAvBwTNw0qn)
Migrating product: Rose Luxe Armchair
Migrated product: Rose Luxe Armchair (ID: KJCWkx06ZGkLJ9X0gM5cIn)
Migrating product: SleekSpin
Migrated product: SleekSpin (ID: H1ItewPDpOUAvBwTNw3Bx)
Migrating product: Library Stool Chair
Migrated product: Library Stool Chair (ID: H1ItewPDpOUAvBwTNw3QT)
Migrating product: Modern Cozy
Migrated product: Modern Cozy (ID: KJCWkx06ZGkLJ9X0gM5cJD)
Migrating product: Scandi Dip Set
Migrated product: Scandi Dip Set (ID: 3jDaPSF78TiYTPj4AHGQJf)
Migrating product: Nordic Spin
Migrated product: Nordic Spin (ID: 3jDaPSF78TiYTPj4AHGQJy)
Migrating product: Gray Elegance
Migrated product: Gray Elegance (ID: 3jDaPSF78TiYTPj4AHGQJf)
Migrating product: Ivory Charm
Migrated product: Ivory Charm (ID: KJCWkx06ZGkLJ9X0gM5d0j)
Data migration completed successfully!
```

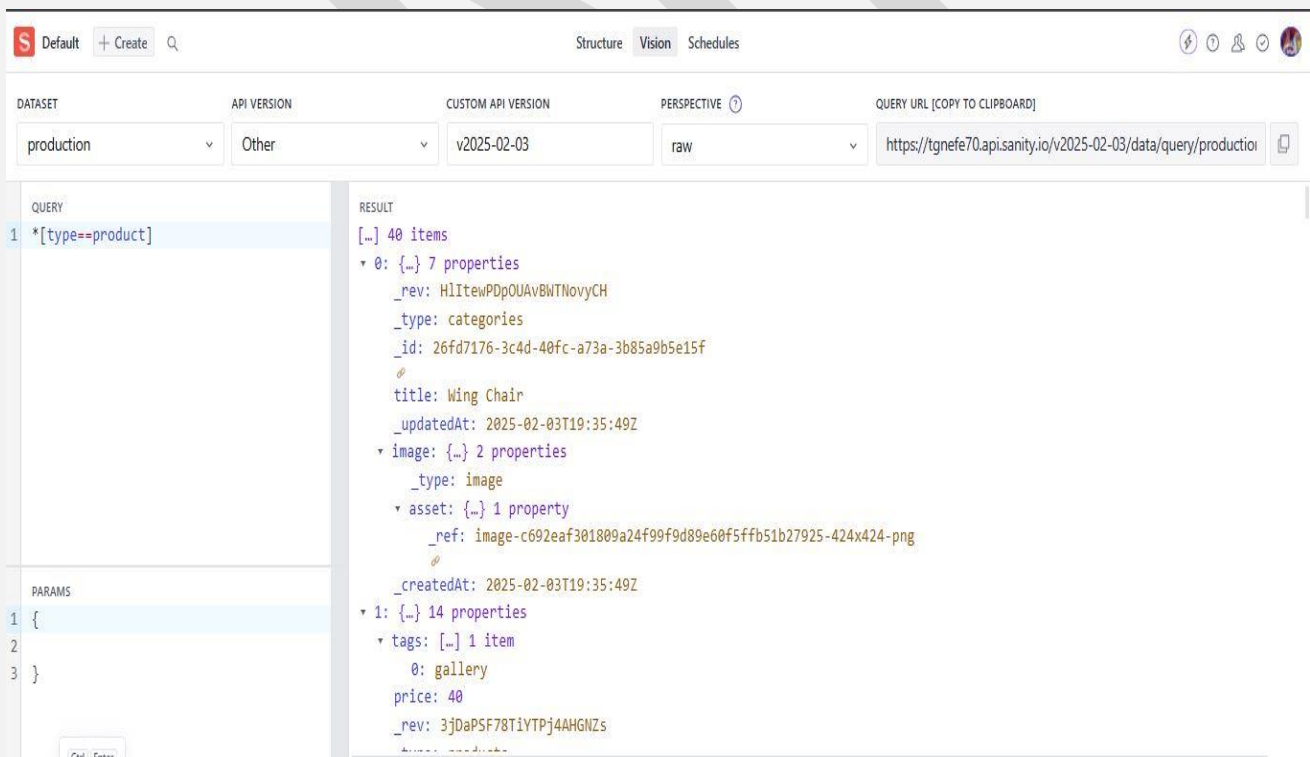
Data Migrate to Sanity:



Data Migrate to Sanity:



Data Fetch to Sanity Query:

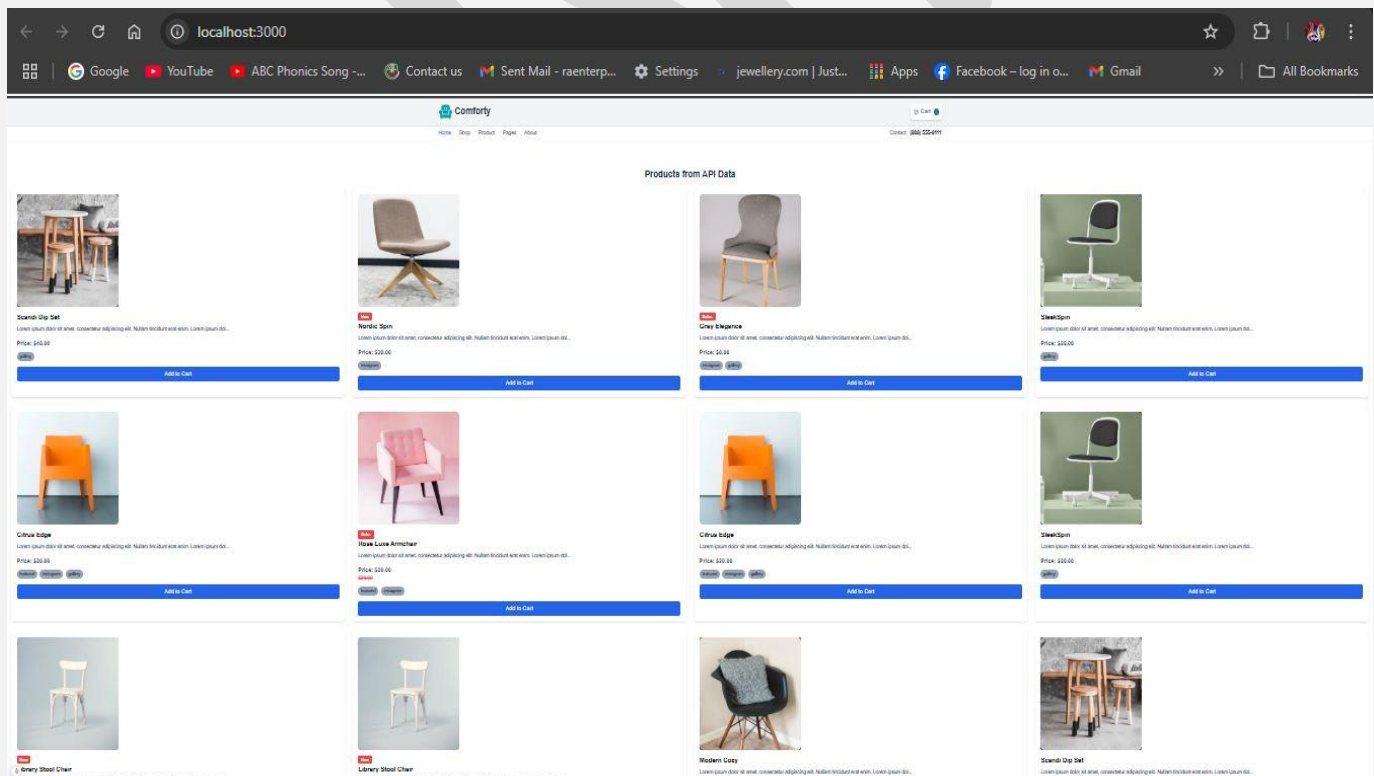


API Products Data File:


```
my-app > src > app > productApi > page.tsx > ProductCards


26
27 const ProductCards: React.FC = () => {
28   const [products, setProducts] = useState<Product[]>([]);
29   const [cart, setCart] = useState<Product[]>([]);
30
31   useEffect(() => {
32     const fetchProducts = async () => {
33       try {
34         const query = `*[_type == "products"] {
35           _id,
36           title,
37           price,
38           priceWithoutDiscount,
39           badge,
40           "imageUrl": image.asset->url,
41           category->{
42             _id,
43             title
44           },
45           description,
46           inventory,
47           tags
48         }`;
49         const data = await sanity.fetch(query);
50         setProducts(data);
51       } catch (error) {
52         console.error("Error Fetching Products:", error);
53       }
54     };
55     fetchProducts();
56   });
57 }
```

API Product Data (localhost:3000):



Cart Summary:




 **Comforty**

 Cart 2

[Home](#) [Shop](#) [Product](#) [Pages](#) [About](#)

Contact: **(808) 555-0111**

Cart Summary

SleekSpin \$20.00	
Gray Elegance \$8.00	
Rose Luxe Armchair \$20.00	

The End