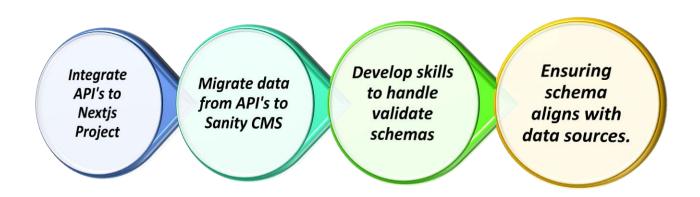
HACKATHON 3

DAY 3 - API INTEGRATION AND DATA MIGRATION

OBJECTIVE:

The focus for Day 3 is integrating APIs and migrating data into Sanity CMS to build a functional marketplace backend. This approach replicates real-world practices and prepares to handle diverse client requirements, including integrating headless APIs or migrating existing data from popular E-Commerce platforms.

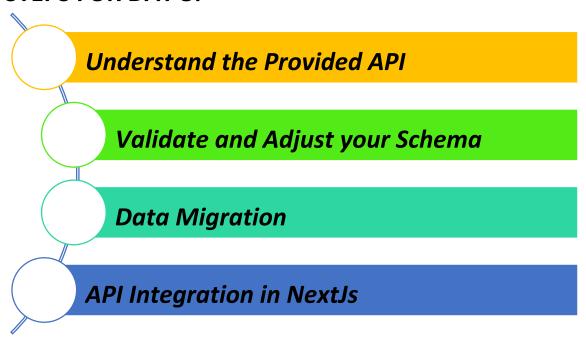
Key Learning Outcomes:



API Overview:

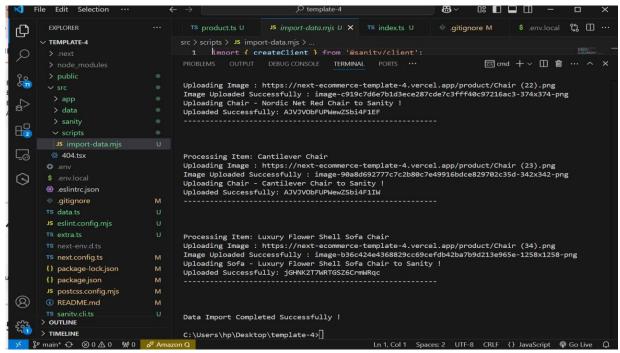
API URL: https://next-ecommerce-template-4.vercel.app/api/product

STEPS FOR DAY 3:



CODE SNIPPETS

1. Understand the Provided API



2. Validate and Adjust Your Schema:

```
0: 🔲 🗖
       EXPLORER

₱ FeaturedProducts.tsx M

TS product.ts U X

₱ LatestProducts.tsx M

                                                                                                                                                                       ც ⊞ .
P
                      V TEMPLATE-4
                                             export default {
                                               name: 'product',
type: 'document',
                                               title: 'Product',
fields: [
                                                    name: 'name',
type: 'string',
         TS index.ts
                                                    title: 'Name
         TS product.ts
        TS structure.ts
                                                   name: 'image',
type: 'image',
title: 'Image',
                                                     hotspot: true,
                                                    description: 'Upload an image of the product.',
                                                   name: 'price',
type: 'string',
title: 'Price',
      TS next.config.ts
                                      PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS CODE REFERENCE LOG
                                                                                                                                                   □ cmd + ~ □ 自 ··· ^ ×
      {} package-lock.json
                                      GET /products 200 in 68ms
     > TIMELINE
```

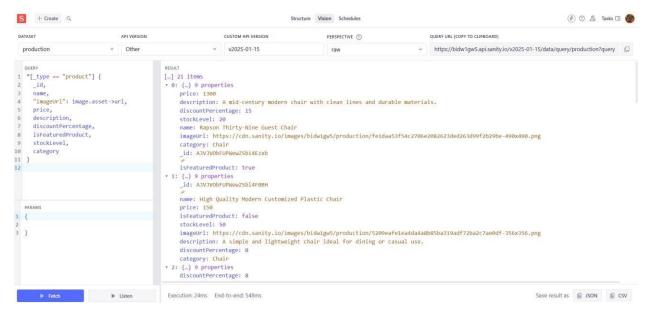
3. Data Migration

```
88
                                                                                                                                                                                                                           08 III III
                                                                                                                                                                                                                                                             ti II ...
O
         V TEMPLATE-4
                                  ☐ ☐ Src > scripts > JS import-data.mjs >
                                                          src > scripts > 15 import-datamjs > ...
1    import { createClient } from '@sanity/client';
2    import axios from 'axios';
3    import dotenv from 'dotenv';
4    import { fileURLToPath } from 'url';
5    import path from 'path';
6
7    const __filename = fileURLToPath(import.meta.url);
8    const __dirname = path.dirname(__filename);
9    dotenv.config({ path: path.resolve(__dirname, '../../.env') });
10
9°
projectId: process.env.NEXT_PUBLIC_SANITY_PROJECT_ID,
dataset: process.env.NEXT_PUBLIC_SANITY_DATASET,
                                                                       token: process.env.SANITY_API_TOKEN, apiVersion: '2025-01-15',
             JS import-data.mjs
            # 404.tsx
                                                                     async function uploadImageToSanity(imageUrl) {
                                                                       TS next.config.ts
                                                                                                                                                                                                                              □ cmd + ∨ □ 💼 ··· ^ ×
          {} package-lock.json
         > OUTLINE
                                                            GET /products 200 in 68ms
```

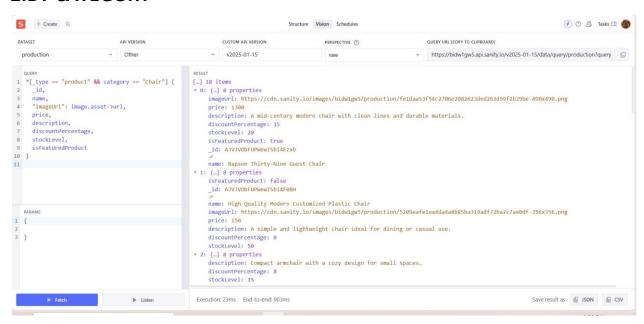
4. API Integration in Next.js

```
📢 File Edit Selection View Go Run …
                                                                                                                                                        08 🔲 📟 🖽
                                         FeaturedProducts.tsx M
                                                                      th II
D
                                         src > app > components > \textcircled{\$} AllProducts.tsx > \textcircled{\$} ProductList
      ∨ TEMPLATE-4
                         回の打打
90
                                                   const [cart, setCart] = useState<Product[]>([]);
const [products, setProducts] = useState<Product[]>([]);
                                                   useEffect(() => {
  const fetchProducts = async () => {
EH2
                                                        const query = `
 *[_type == "product"] {
<u>[</u>
                                                           _id,
name,
"imageUrl": image.asset->url,
           AllProducts.tsx
           BlogSection.tsx
           FeaturedProducts.tsx
                                                            discountPercentage,
stockLevel,
           Footer.tsx
           # Header.tsx
           Hero.tsx
           HeroSection.tsx
                                                        try {
    const sanityProducts = await client.fetch(query);
           LatestProducts.tsx
                                                         console.log('Fetched Products:', sanityProducts); // Debugging step
setProducts(sanityProducts);
           Maybar.tsx
           Mewslater.tsx
           Offers.tsx
8
           TopBar.tsx
                                                                                                                                                          PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS CODE REFERENCE LOG
      > OUTLINE
                                          _GET /products 200 in 68ms
```

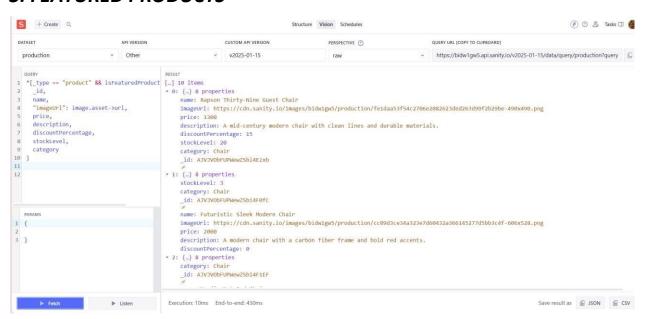
GROQ QUERY 1: ALL PRODUCTS



2:BY CATEGORY



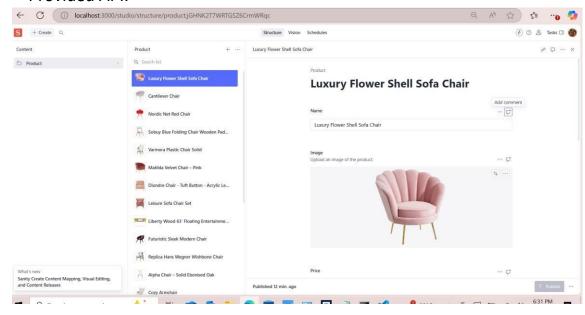
3: FEATURED PRODUCTS



SHOWING POPULATED Data in Sanity:

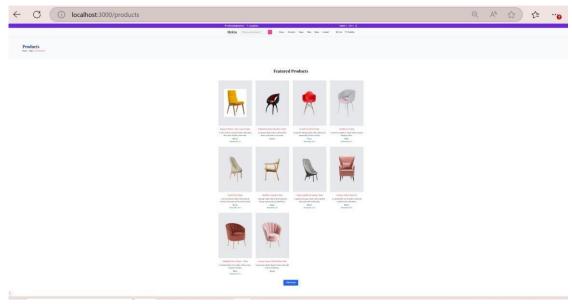
Sanity CMS populated with imported data from:

Provided API.



Functional API integration in Next.js displaying:

- Product listings.
- Categories.
- Other relevant data.



SUMMARY OF THE WORK

Secure Sensitive
Data

Defining Environmental Variables.

• Used .env files for storing API keys securely.

Data Validation

During Migration Applied schemas to check field types and constraints.

• Logged discrepancies for further analysis.

Thorough

Documentation Included screenshots, scripts, and testing notes.

• Maintained a changelog for schema adjustments.

Day 3 Checklist:

Self-Validation Checklist:

