

Day 3 - API Integration and Data Migration

Introduction

On Day 3, the focus was on integrating APIs and migrating data into Sanity CMS. The purpose was to develop a functional backend for an e-commerce marketplace. This hands-on task replicated real-world scenarios, allowing me to gain practical experience in handling API integrations and managing data migration from other platforms.

API Overview (Template 1)

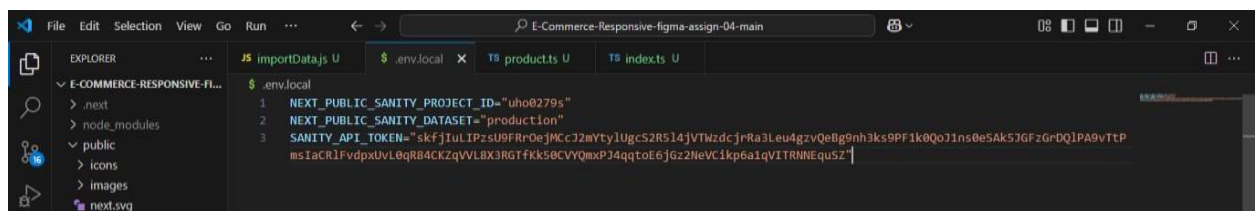
- **Migration Script:**
<https://github.com/developerhammadrehman/template1/blob/main/importData.js>
- **Schema:** <https://github.com/developerhammadrehman/template1/blob/main/src/sanity/schemaTypes/products.ts>
- **GitHub Repository:**
<https://github.com/developerhammadrehman/template1/tree/main>

Step-by-Step Integration Process for Day-3

1. Understand the Provided API:

The first step was to thoroughly review the API documentation provided for Template 1. This involved identifying the key endpoints:

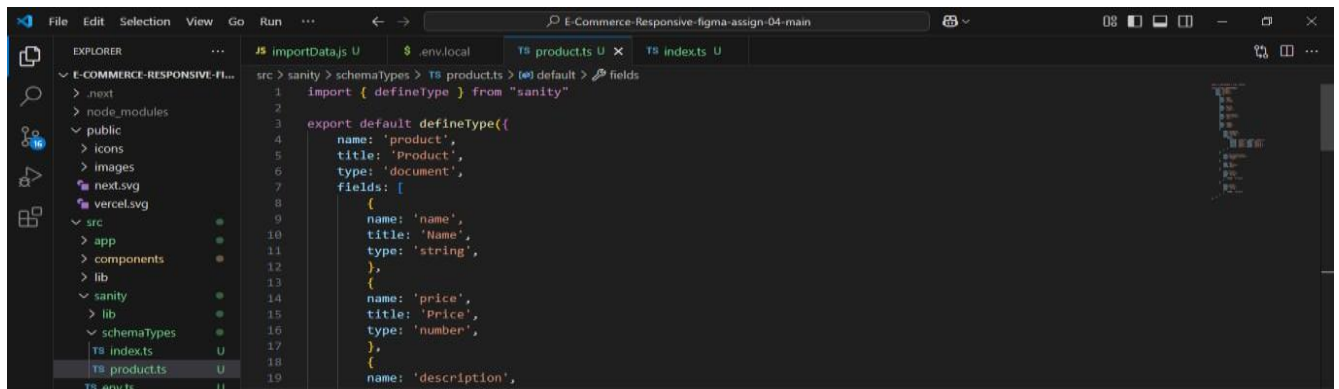
- **Product Listings:** /products
- **Categories:** /categories



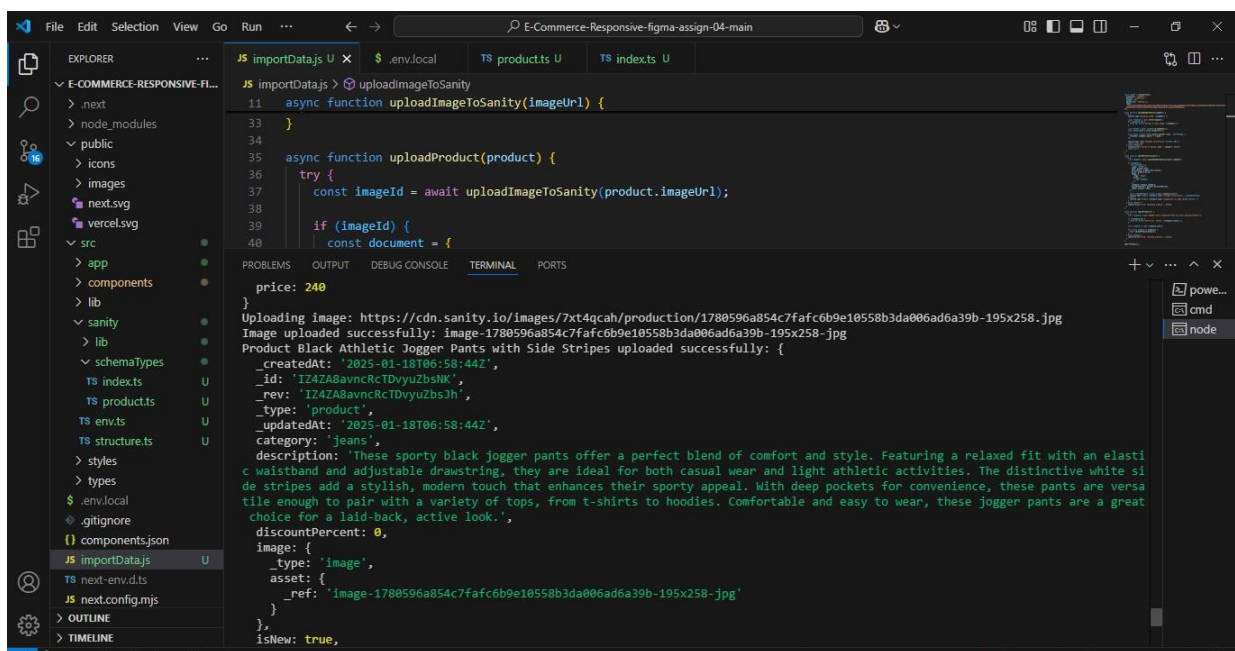
2. Validate and Adjust Your Schema:

To ensure compatibility, I compared the existing Sanity CMS schema with the API data structure. Adjustments were made to align the fields properly, ensuring smooth data integration. A custom schema file named Product.ts

Product.ts Snippet:



```
1 import { defineType } from "sanity"
2
3 export default defineType({
4   name: 'product',
5   title: 'Product',
6   type: 'document',
7   fields: [
8     {
9       name: 'name',
10      title: 'Name',
11      type: 'string',
12    },
13    {
14      name: 'price',
15      title: 'Price',
16      type: 'number',
17    },
18    {
19      name: 'description',
```



Sanity Response

The screenshot shows the Sanity Studio interface for a product named 'Classic Polo Shirt'. The interface is divided into several sections:

- Header:** Includes the 'SHOP.CO' logo, navigation links (Shop, On Sale, New Arrivals, Brands), a search bar, and user profile icons.
- Left Sidebar:** Contains a 'Content' section with a 'Product' filter and a list of product categories: Classic Polo Shirt, Black Athletic Jogger Pants with S..., Skinny Fit Jeans, Beige Slim-Fit Jogger Pants, Black Striped T-Shirt, Checkered Shirt, LOOSE FIT BERMUDA SHORTS, and Vertical Striped Shirt.
- Main Content Area:** Displays the 'Classic Polo Shirt' product details, including its name, price (180), and description.
- Bottom Bar:** Shows the local host address: `localhost:3000/studio/structure/product/wsjz10iCZachwUMK4pQq1`.

Groq Query

The screenshot shows the Sanity Studio interface with a Groq query and its result. The interface is divided into several sections:

- Header:** Includes the 'SHOP.CO' logo, navigation links (Shop, On Sale, New Arrivals, Brands), a search bar, and user profile icons.
- Query Section:** Displays the query: `*[_type=="product"]` and the parameters: `{}`.
- Result Section:** Displays the result of the query, which is a list of 17 items. The first item is a 'Classic White Pullover Hoodie' with a description: 'This white pullover hoodie offers a clean, minimalist look with its soft fabric and timeless design. The hoodie features a cozy, spacious fit, complete with an adjustable drawstring for a personalized fit and a large front pocket for added convenience. The bright white color is perfect for a fresh, casual style and pairs well with various bottoms like jeans, joggers, or shorts. Whether worn for lounging or as part of an everyday outfit, this hoodie provides comfort and versatility with a modern, relaxed flair.'
- Bottom Bar:** Shows the execution time (6ms) and end-to-end time (221ms). It also includes buttons for 'Fetch', 'Listen', and 'Save result as' (JSON, CSV).

NextJs (Frontend)

The screenshot shows the Next.js frontend displaying a grid of clothing items. The interface includes a header with the 'SHOP.CO' logo, navigation links (Shop, On Sale, New Arrivals, Brands), a search bar, and user profile icons. The grid contains four items:

- T-shirt with Tape Details:** Price \$120, 4.5/5 stars.
- Skinny Fit Jeans:** Price \$208 (original \$260, -20% off), 3.5/5 stars.
- Checkered Shirt:** Price \$180, 4.5/5 stars.
- Sleeve Striped T-shirt:** Price \$112 (original \$160, -30% off), 4.5/5 stars.

A 'View All' button is located at the bottom center of the grid.