Day 3 - API Integration and Data Migration Report

Objective:

The goal for Day 3 was to integrate API data into the Sanity CMS for the Bandage project, streamlining dynamic content updates for the marketplace. This approach replaced manual data entry with a more efficient and scalable solution through API integration.

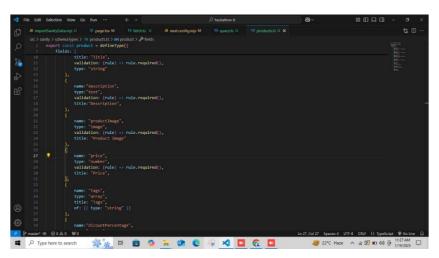
1. Sanity CMS Schema Design:

To make it easy to manage product data, I created a product schema in Sanity CMS. This schema includes the following fields:

Main Fields:

- title: The product title (string type).
- description: A detailed description of the product (text type).
- productImage: The main product image (image type).
- price: The price of the product (number type).
- tags: An array of tags to categorize the product (array of strings).
- discountPercentage: The discount percentage (number type).
- isNew: A boolean flag indicating if the product is new (boolean type).

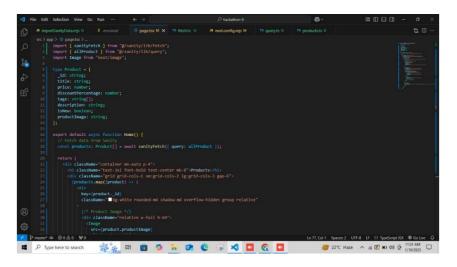
Code Snippet:



2. API Integration and Data Migration:

API Data Fetching:

I retrieved product data from an external API, including details like images, titles, descriptions, prices, and tags. This data was then matched to the fields in the Sanity CMS schema.



Data Population in Sanity CMS:

After fetching data from the API, I dynamically filled the product fields in Sanity CMS. This automated process ensured the product information was consistent and accurate across the platform.

Data Migration:

Using the Sanity CLI, I exported the dataset from Sanity CMS for backup and later re-imported it for testing purposes. This process ensured the data was well-structured and displayed correctly on the frontend.

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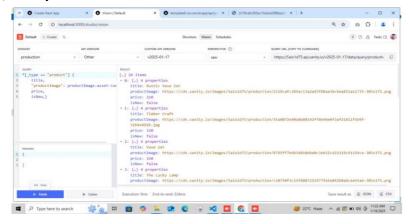
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3. Tools Used:

Sanity Studio:

Used for schema creation, content management, and displaying product data.

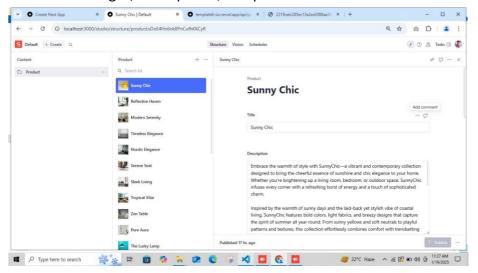
Sanity Vision, Sanity Database:

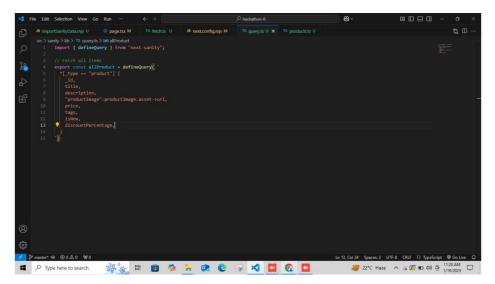


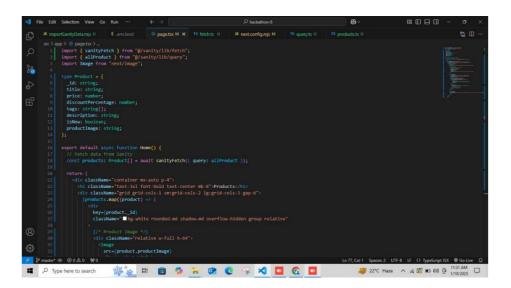
4. Screenshots and Frontend Display:

Sanity CMS Fields:

Screenshot showing the populated fields in Sanity Studio, displaying product details like images, descriptions, and prices.







Frontend Display:

Screenshot demonstrating how the product data is displayed dynamically on the frontend of the marketplace.

