

# Day 3 - API Integration Report - Furniva

BY WANIA AZAM

## • *API Integration Process*

### Step 1: Understanding Requirements

- First, I studied what was needed for the marketplace.
- Found out that we needed more fields in the product schema to match new ideas and user needs.

### Step 2: Adding Fields to Schema

- **Updated the Sanity CMS schema to include extra fields like:**
  - **Code:** Unique product code.
  - **Inventory:** Number of products in stock.
  - **Tags:** Keywords to help search.
  - **Discount Percentage:** To manage sales or discounts.

### Step 3: Manually Importing Data

- I didn't use scripts. Instead, I added the data one by one into Sanity CMS. This helped me double-check everything for accuracy.
- Used Sanity Studio's interface to create new product entries, fill out all fields, and upload images.

### Step 4: Validating Data

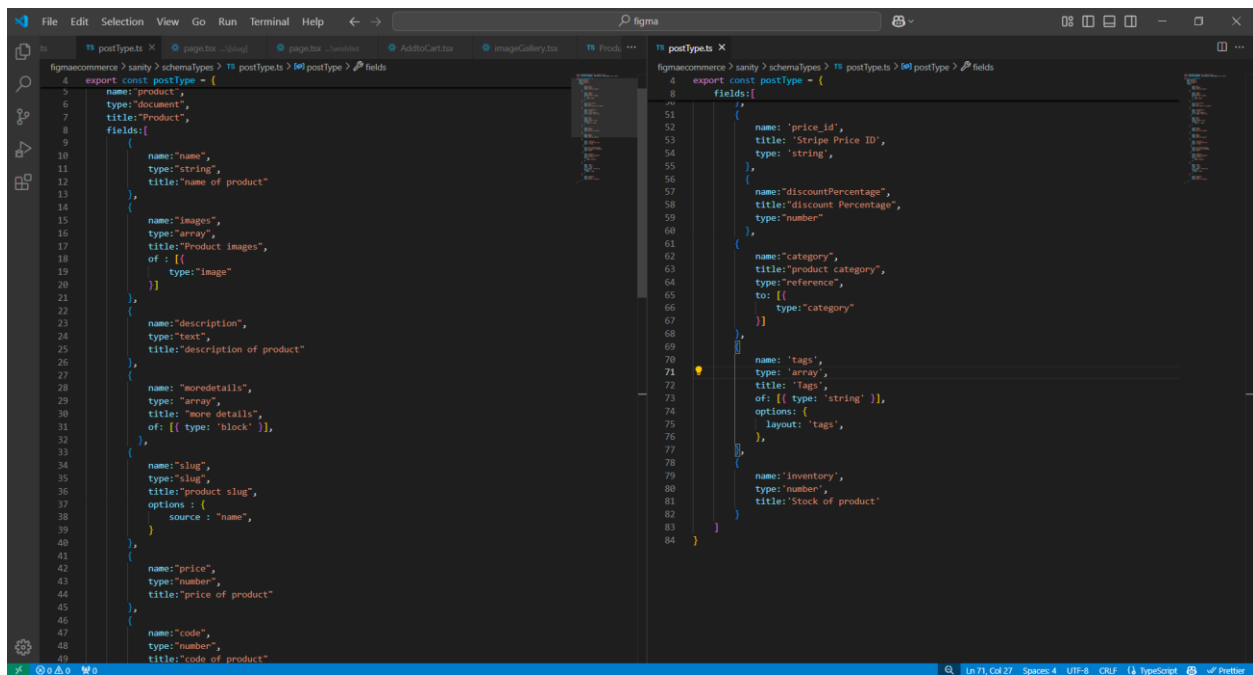
- After adding the data, I checked each product to make sure the fields were correct.
- Used Sanity's GROQ query tool to test and confirm the data was saved properly.

- ***Adjustments made to schemas:***

I added several new fields to the product schema:

- **Code:** A unique product code for identification.
- **Inventory:** Tracks the stock count of each product.
- **Tags:** Helps categorize products and improves search optimization.
- **Discount Percentage:** For managing product discounts or sales.
- **Images:** Multiple images to showcase the product from different angles

***Here image of my Updated schema:***



```
figmacommerce > sandy > schemaTypes > TS postTypes > 00 postType > fields
4 export const postType = {
5   name: 'product',
6   type: 'document',
7   title: 'Product',
8   fields: [
9     {
10      name: 'name',
11      type: 'string',
12      title: 'name of product'
13     },
14     {
15      name: 'images',
16      type: 'array',
17      title: 'Product images',
18      of: [ { type: 'image' } ]
19     },
20     {
21      name: 'description',
22      type: 'text',
23      title: 'description of product'
24     },
25     {
26      name: 'moreDetails',
27      type: 'array',
28      title: 'more details',
29      of: [ { type: 'block' } ],
30     },
31     {
32      name: 'slug',
33      type: 'slug',
34      title: 'product slug',
35      options: {
36        source: 'name',
37      },
38     },
39     {
40      name: 'price',
41      type: 'number',
42      title: 'price of product'
43     },
44     {
45      name: 'code',
46      type: 'number',
47      title: 'code of product'
48     },
49   ],
50 }
```

```
figmacommerce > sandy > schemaTypes > TS postTypes > 00 postType > fields
4 export const postType = {
5   fields: [
6     {
7       name: 'price_id',
8       title: 'Stripe Price ID',
9       type: 'string',
10     },
11     {
12       name: 'discountPercentage',
13       title: 'discount Percentage',
14       type: 'number'
15     },
16     {
17       name: 'category',
18       title: 'product category',
19       type: 'reference',
20       to: [ { type: 'category' } ]
21     },
22     {
23       name: 'tags',
24       type: 'array',
25       title: 'Tags',
26       of: [ { type: 'string' } ],
27       options: {
28         layout: 'tags',
29       },
30     },
31     {
32       name: 'inventory',
33       type: 'number',
34       title: 'Stock of product'
35     },
36   ],
37 }
```

# ***Manual Data Entry Steps:***

## **Tools I Used:**

- **Sanity Studio:** For entering data.

## **Steps I Followed:**

### **1. Prepare Data:**

- I collected product information Amazon and other Ecommerce Website.
- Organized the information so it was easy to add.

### **2. Add to Sanity:**

- Went into Sanity Studio.
- Created new entries for each product.
- Filled in fields like name, price, code, tags, etc.
- Uploaded images for each product.

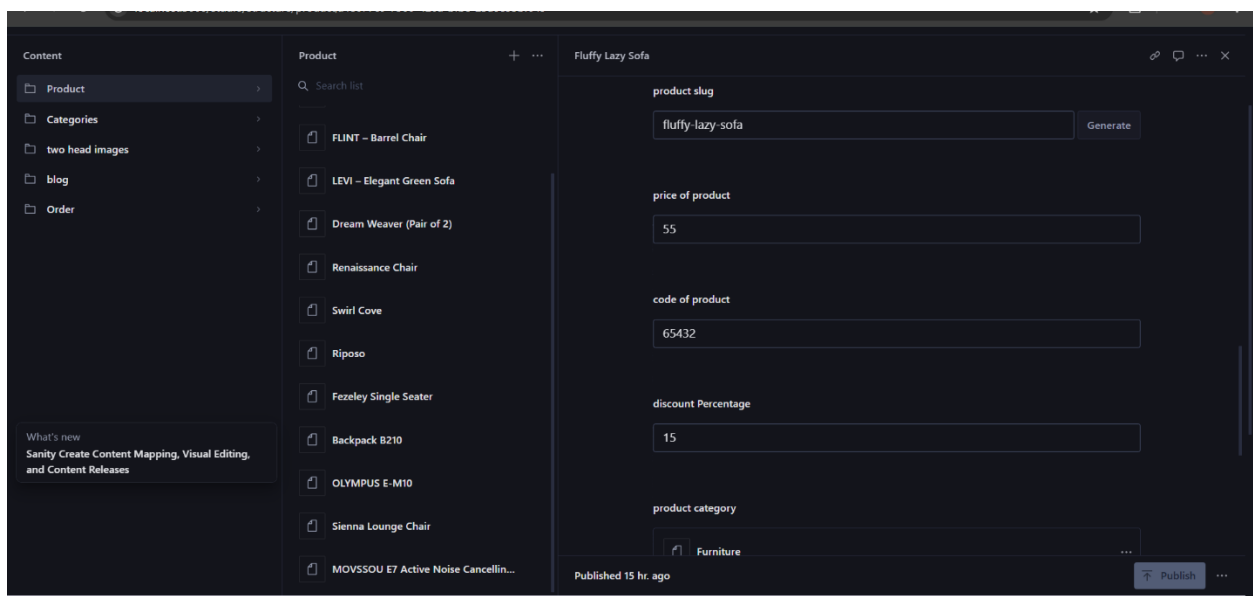
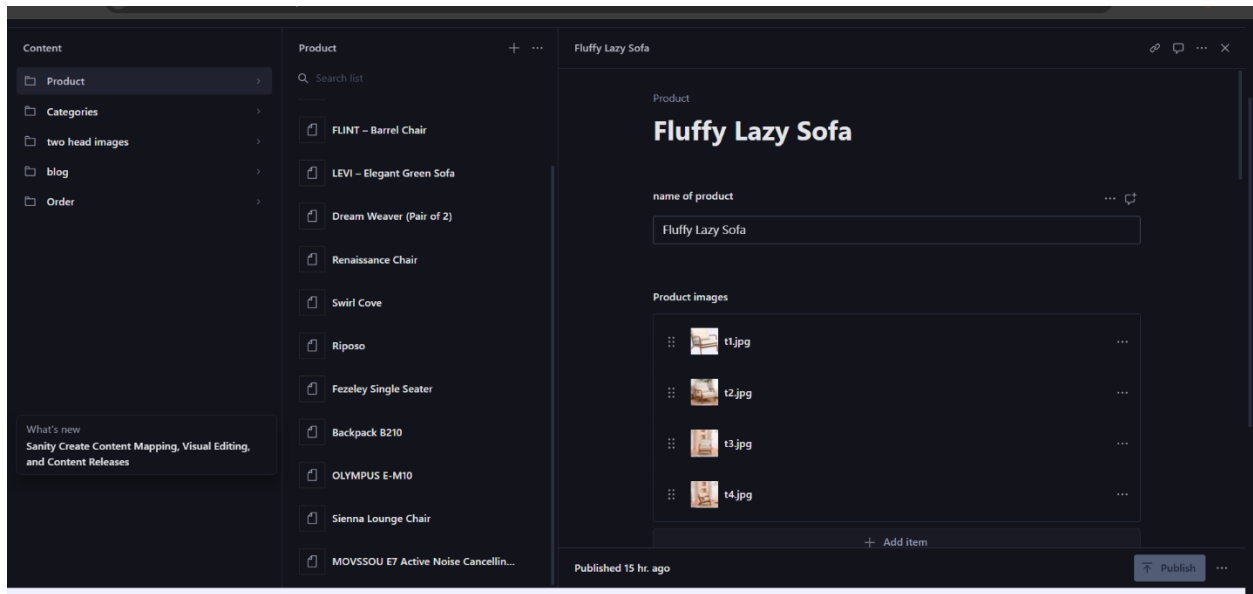
### **3. Check Entries:**

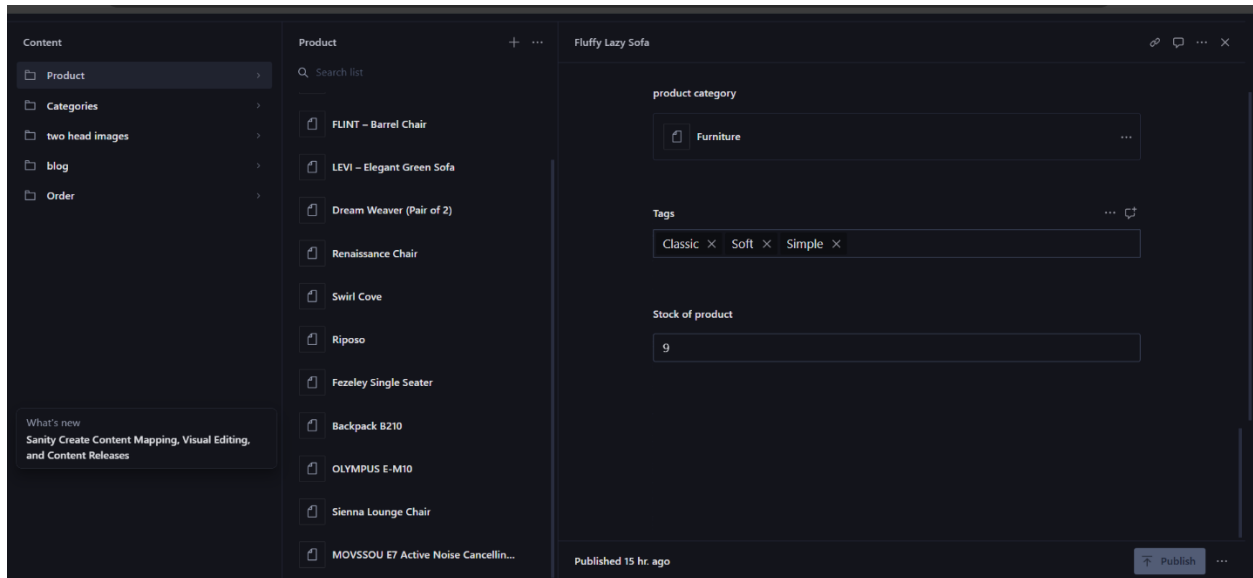
- Made sure all fields were filled correctly.
- Run queries in Sanity to test the data.

# Screenshots of Working process:

## Sanity CMS Data Entry:

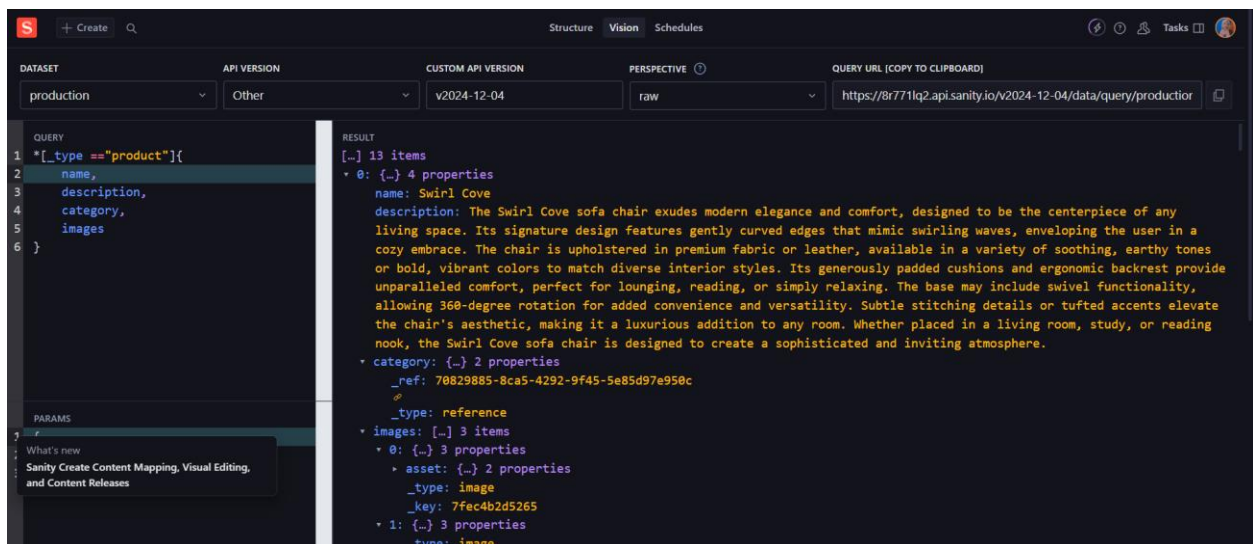
- **Screenshot: Product entry with all fields filled out.**



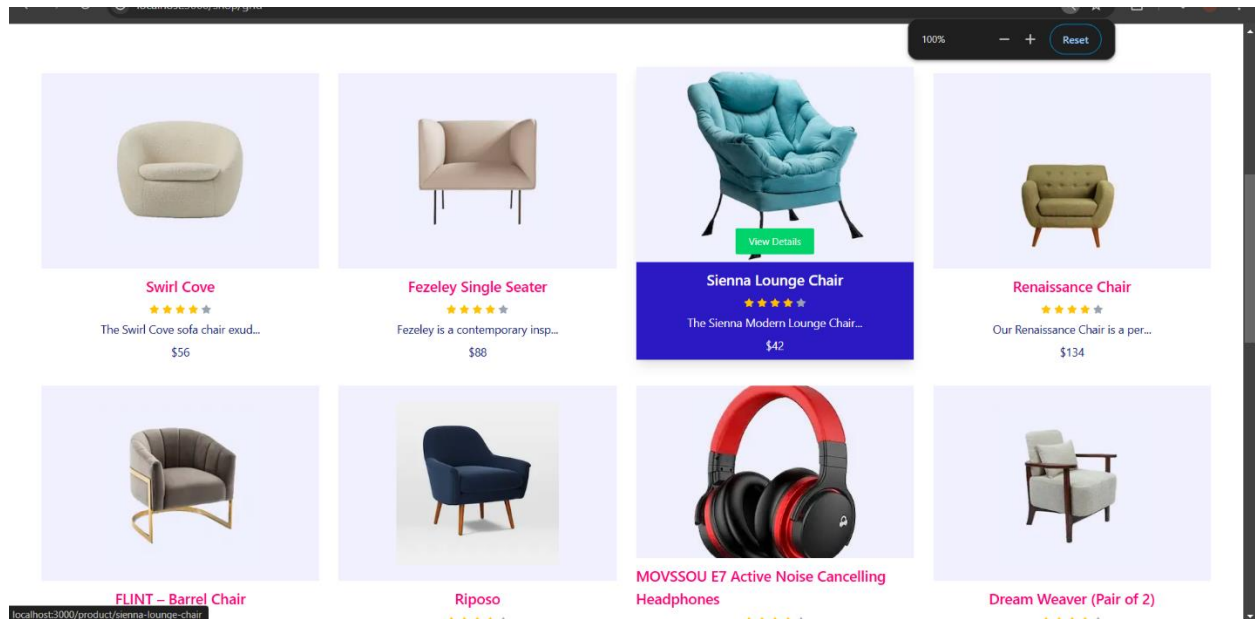


## Data validation:

- **Screenshot : GROQ query showing correct data.**



- **Screenshot : Frontend display of the products.**



## Conclusion:

Throughout this project, I have not only updated the product schema to include new fields like Code, Inventory, Tags, Images, Discount Percentage, More Details, and Slug, but I also gained hands-on experience with API migration. This included using migration scripts to transfer data efficiently and ensuring that the data matches the schema. By validating and adjusting the schema, I learned how to align it with the API structure, ensuring compatibility and smooth data migration.

In addition, I learned how to integrate APIs in a Next.js project, testing them with tools like Postman to ensure that product listings, categories, and other relevant data were displayed correctly. The overall process also improved my skills in error handling, creating utility functions, and testing data integration to maintain a high-quality user experience.

In short, I learned how to:

- Migrate data using API integration and manual imports.
- Adjust and validate schemas for API compatibility.

- Handle API errors effectively for smooth user experiences.
- Integrate data seamlessly in Next.js, ensuring functional frontend displays.

This project was a great opportunity to enhance my understanding of working with APIs, data migration, and frontend integration using Next.js.