Day 3 - API Integration and Data Migration

Our API Integration Process:

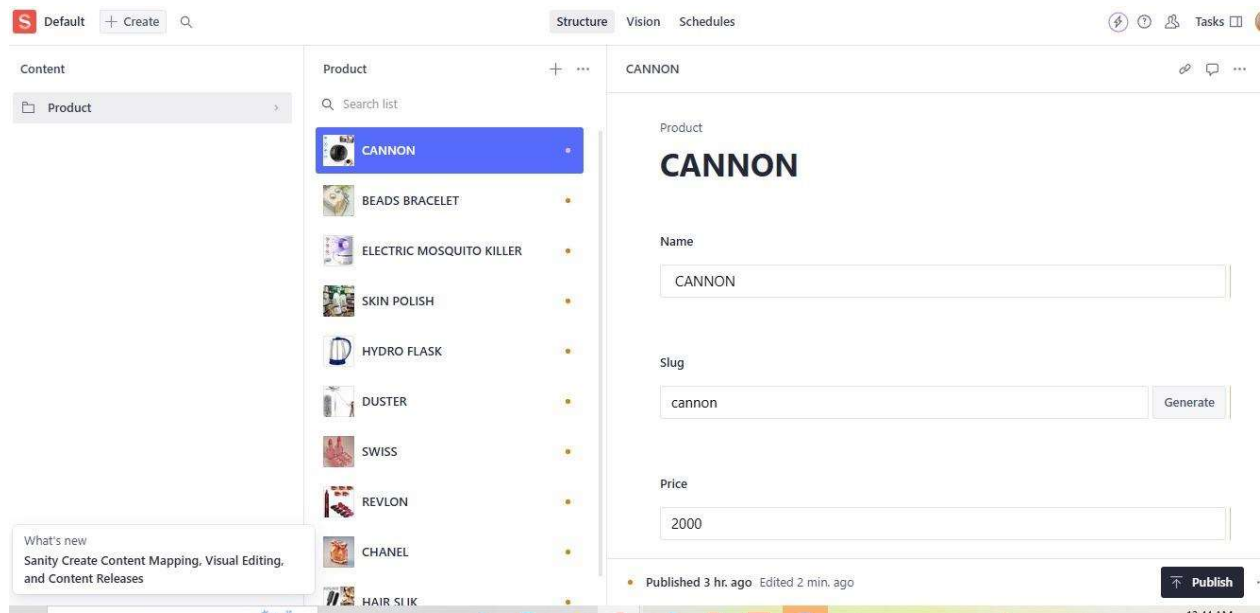As part of the integration process for our **Media Mart** e-commerce store:

- o We manually exported the product data instead of relying on an external API.
- o Data was formatted according to the required schema for Sanity CMS.
- o The integration involved populating Sanity CMS fields manually with the exported data.
- o The process ensured compatibility for local drop shipping operations in Pakistan.

Schema Adjustments

Product Schema:

1. Added fields for localized details such as:
    - o Product name (English).
    - o Pricing and discount options.
    - o Product category specific to the **Pakistani Market**.

Included support for images with manual uploads:

Category Schema:

- o Updated to handle custom categories relevant to local drop shipping.
- o Fields for category descriptions and Urdu translations.

Migration Steps and Tools Used

Steps:

1. **Data Export:**
   - o Manually extracted product data from existing sources (CSV/Excel files).

2. **Data Cleaning:**
   - Ensured data accuracy by standardizing formats and removing duplicates.
3. **Schema Mapping:**
   - Mapped exported fields to the Sanity CMS schema.
4. **Manual Entry into Sanity:**
   - Entered data into Sanity CMS using its user interface.
5. **Validation:**
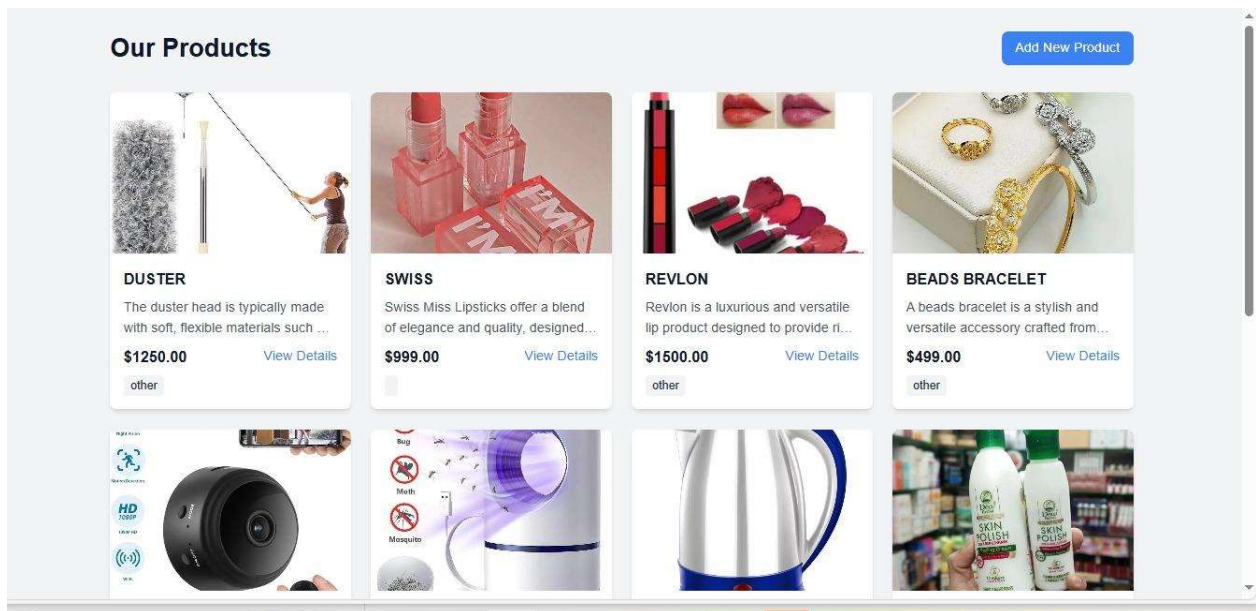   - Verified that all fields were correctly populated and displayed on the frontend.

Tools Used:

   - **Excel/Google Sheets:** For organizing and cleaning product data.
   - **Sanity CMS Dashboard:** For manual data entry and validation.

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1. API Calls:

(No external API calls were used in this process as data was manually exported and entered.)

2. Data Successfully Displayed in the Frontend:

3. Populated Sanity CMS Fields:

Code Snippets for API Integration and Migration Scripts

API Integration:

(No code for API integration, as data export was performed manually.)

4. Example Code for Frontend Integration:

```javascript
export default {
    name: 'product',
    title: 'Product',
    type: 'document',
    fields: [
        {
            name: 'name',
            title: 'Name',
            type: 'string',
            validation: Rule => Rule.required()
        },
        {
            name: 'slug',
            title: 'Slug',
            type: 'slug',
            options: {
                source: 'name',
                maxLength: 96
            },
            validation: Rule => Rule.required()
        },
        {
            name: 'sku',
            title: 'SKU',
            type: 'string'
        },
        {
            name: 'price',
            title: 'Price',
            type: 'number',
            validation: Rule => Rule.required().positive()
        },
        {
            name: 'discountPrice',
            title: 'Discount Price',
            type: 'number'
        },
        {
            name: 'images',
            title: 'Images',
            type: 'array',
            of: [{ type: 'image' }],
            options: {
                hotspot: true
            }
        },
        {
            name: 'description',
            title: 'Description',
            type: 'text'
        },
        {
            name: 'shortDescription',
```

Example Migration Script:

(No automated migration script was used as data was entered manually.)

Self-Validation Checklist:

Task
API Understanding
Schema Validation
Data Migration
API Integration in Next.js

Submission Preparation

- o Data successfully fetched and displayed in Sanity CMS.
- o Frontend validated with manually entered data.
- o Screenshots and code snippets included for reference.

Conclusion:

This report documents the manual data migration process and integration with Sanity CMS for **Media Mart Teams**, ensuring a seamless user experience for local Drop shipping in Pakistan.

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Best Regards:

WEB & MEDIA TEAMS