

API Integration and Data Migration Report

Day 3 - API Integration and Data Migration

Our API Integration Process:

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

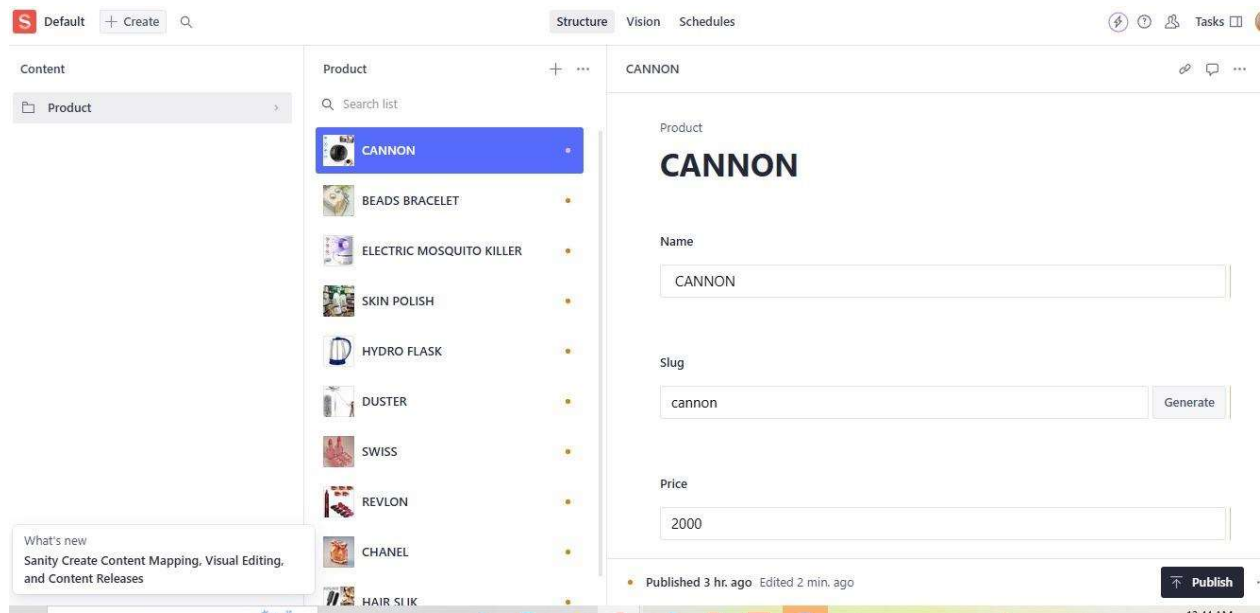
- We manually exported the product data instead of relying on an external API.
 - Data was formatted according to the required schema for Sanity CMS.
 - The integration involved populating Sanity CMS fields manually with the exported data.
 - The process ensured compatibility for local drop shipping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

Product Schema:

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

Included support for images with manual uploads:



Category Schema:

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

Migration Steps and Tools Used

Steps:

1. Data Export:

- 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.

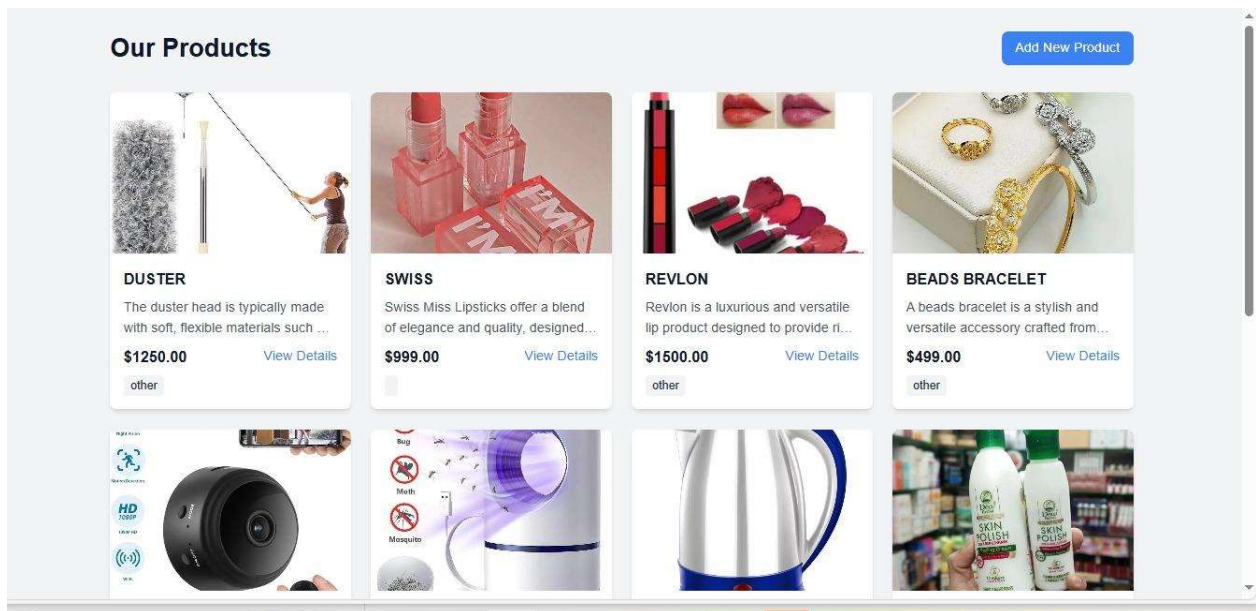
Tools Used:

- **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:

Sanity CMS interface showing a query result for the "production" dataset, API version "Other", and custom API version "v2025-01-18". The query is executed, and the result is displayed in the "RESULT" pane.

QUERY

```
*
{
  title
  description
  price
  category
  _type
}
```

PARAMS

```
{
  dataset: 'production'
  apiVersion: 'Other'
  customApiVersion: 'v2025-01-18'
  perspective: 'raw'
}
```

RESULT

```
[...] 40 items
0: {
  image: {
    asset: {
      _ref: 'image-13898c2c4fc996aa6f203b7a0796ab88d4bfc986-1062x1121-jpg'
      _type: 'reference'
    }
    _type: 'image'
  }
  _createdAt: '2025-01-18T18:10:05Z'
  _rev: 'NxaIkVf0z91aTr5xFpLmb0'
  name: 'DUSTER'
  _id: 'D24vb8qimRxTY3Eypo1D0'
  category: 'other'
  _updatedAt: '2025-01-18T19:48:32Z'
  price: 1250
  _type: 'product'
  description: 'The duster head is typically made with soft, flexible materials such as microfiber or'
```

Execution: 12ms End-to-end: 475ms

Save result as: JSON CS

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:

```

1 export default {
2   name: 'product',
3   title: 'Product',
4   type: 'document',
5   fields: [
6     {
7       name: 'name',
8       title: 'Name',
9       type: 'string',
10      validation: Rule => Rule.required()
11    },
12    {
13      name: 'slug',
14      title: 'slug',
15      type: 'slug',
16      options: {
17        source: 'name',
18        maxLength: 96
19      },
20      validation: Rule => Rule.required()
21    },
22    {
23      name: 'sku',
24      title: 'SKU',
25      type: 'string'
26    },
27    {
28      name: 'price',
29      title: 'Price',
30      type: 'number',
31      validation: Rule => Rule.required().positive()
32    },
33    {
34      name: 'discountPrice',
35      title: 'Discount Price',
36      type: 'number'
37    },
38    {
39      name: 'images',
40      title: 'Images',
41      type: 'array',
42      of: [{ type: 'image' }],
43      options: {
44        hotspot: true
45      }
46    },
47    {
48      name: 'description',
49      title: 'Description',
50      type: 'text'
51    },
52    {
53      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

- Data successfully fetched and displayed in Sanity CMS.
- Frontend validated with manually entered data.
- 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