

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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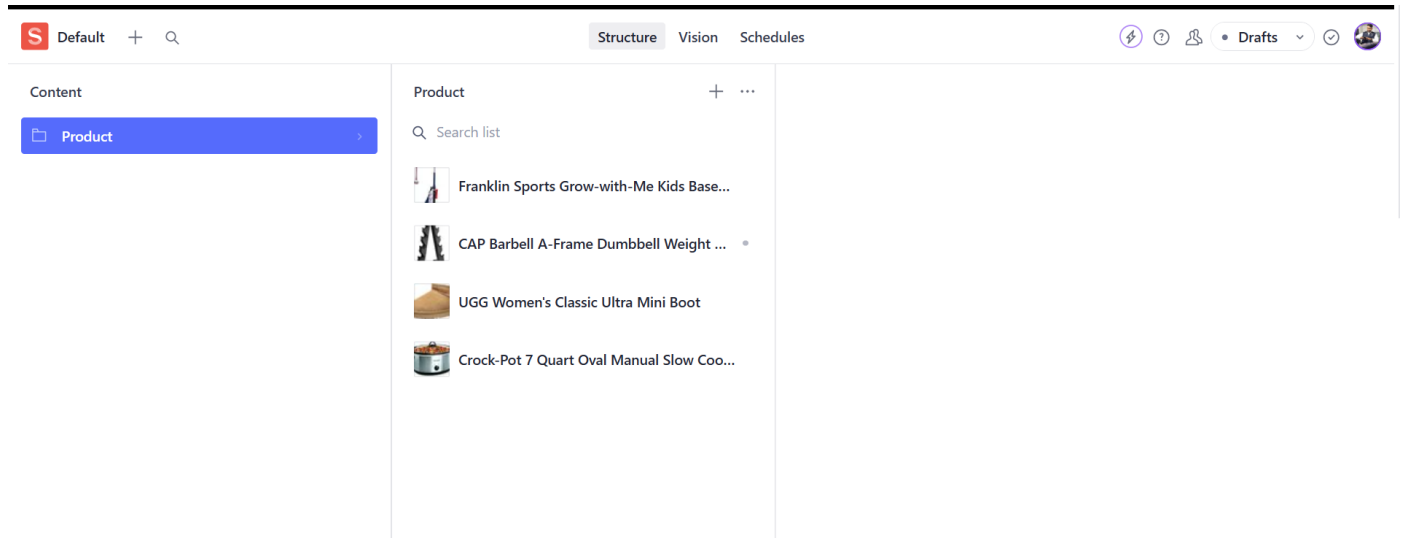
Schema Adjustments

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:

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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:

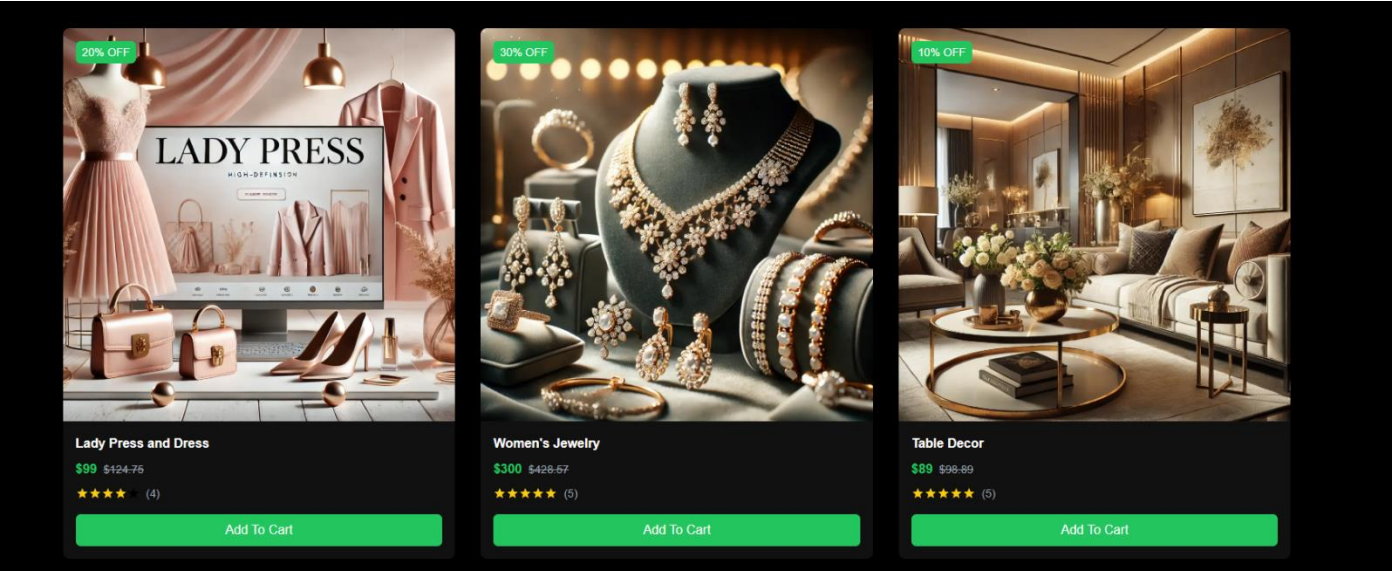
- **Excel/Google Sheets:** For organizing and cleaning product data.
 - **Sanity CMS Dashboard:** For manual data entry and validation.
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1. API Calls:

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

2. Data Successfully Displayed in the Frontend:

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3. Populated Sanity CMS Fields:

Sanity

Default

+ Create

Q

Structure

Vision

Schedules

DATASET

API VERSION

CUSTOM API VERSION

PERSPECTIVE

QUERY URL [COPY TO CLIPBOARD]

production

Other

v2025-02-01

raw

https://fcszfqqi.api.sanity.io/v2025-02-01/data/query/production?query=**%5B_type

QUERY

RESULT

```
1 *[_type == "product"]{
2   _id,
3   name,
4   slug,
5   description,
6   price,
7   discountPercentage,
8   priceWithoutDiscount,
9   rating,
10  ratingCount,
11  tags,
12  sizes,
13  "imageUrl": image.asset->url,
14  keyFeatures
15 }
```

```
1 RESULT
2 [...] 9 items
3 * 0: {} 13 properties
4   * slug: {} 2 properties
5     current: dell-laptop-i7
6     _type: slug
7   price: 999
8   discountPercentage: 20
9   priceWithoutDiscount: 899
10  rating: 4
11  imageUrl: https://cdn.sanity.io/images/fcszfqqi/production/00022e37391c9cf4236ad5f9dc06bbe599490a00-1024x1024.webp
12  id: 08615863-3599-408f-8dae-e07c21b3f68d
13  name: Dell Laptop i7
14  description: The Dell Laptop i7 is a high-performance machine featuring an Intel Core i7 processor, delivering exceptional speed and multitasking capabilities. Perfect for professionals and gamers alike, it combines sleek design with powerful hardware for productivity and entertainment.
15  ratingCount: 4
16  * tags: [...] 10 items
17    0: dell
18    1: i7
19    2: i5
20    3: i3
21    4: laptop
22    5: hp
23    6: 7th generation
24    7: 8th
25    8: 10th
26    9: 13th
```

PARAMS

1 {

2 }

3 }

Code Snippets for API Integration and Migration Scripts

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API Integration:

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

4. Example Code for Frontend Integration:

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```
src > sanity > schemaTypes > TS product.ts > ...
1 // eslint-disable-next-line import/no-anonymous-default-export
2 export default {
3   name: 'product',
4   type: 'document',
5   title: 'Product',
6   fields: [
7     {
8       name: 'name',
9       type: 'string',
10      title: 'Product Name',
11    },
12    {
13      name: 'slug',
14      type: 'slug',
15      title: 'Slug',
16      options: {
17        source: 'name', // Automatically generate slug from product name
18        maxLength: 96,
19      },
20      description: 'Unique identifier for the product, used in the URL',
21    },
22    {
23      name: 'description',
24      type: 'string',
25      title: 'Description',
26    },
27    {
28      name: 'price',
29      type: 'number',
30      title: 'Product Price',
31    },
32    {
33      name: 'discountPercentage',
34      type: 'number',
35      title: 'Discount Percentage',
36    },
37    {
38      name: 'priceWithoutDiscount',
39      type: 'number',
40      title: 'Price Without Discount',
41      description: 'Original price before discount',
42    },
43    {
44      name: 'rating',
45      type: 'number',
```

Example Migration Script:

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

Self-Validation Checklist:

Task
API Understanding
Schema Validation
Data Migration
AP 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