

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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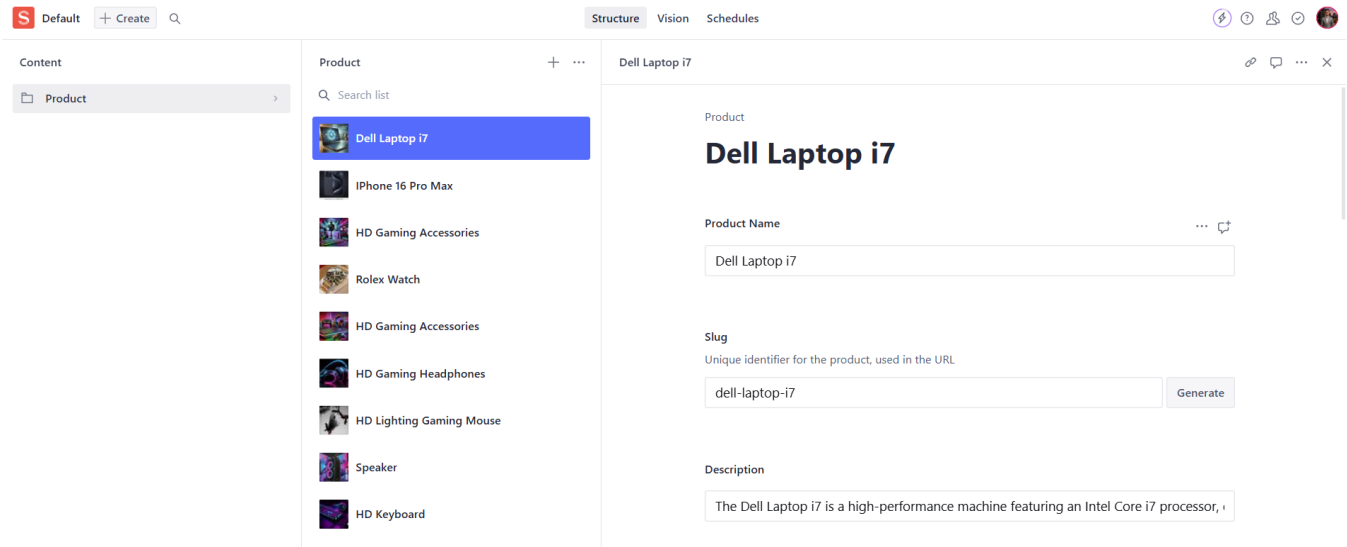
Schema Adjustments

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.

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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Best Seller Products

[View All Products](#)

20% OFF



High-Definition Studio Microphone

\$999


\$1240.75

★★★★★

(4)

Add To Cart

30% OFF



AirPods

\$300


\$420.57

★★★★★

(5)

Add To Cart

10% OFF



Headphone

\$89

\$96.89

★★★★★

(5)

Add To Cart

3. Populated Sanity CMS Fields:

Default + Create

Structure Vision Schedules

DATASET production

API VERSION Other

CUSTOM API VERSION v2025-02-01

PERSPECTIVE raw

QUERY URL [COPY TO CLIPBOARD] https://fcszfqqi.api.sanity.io/v2025-02-01/data/query/production?query=+*%5B_type

QUERY

PARAMS

```
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 {
2
3 }
```

RESULT

```
[...] 9 items
  0: {...} 13 properties
    slug: {...} 2 properties
      current: dell-laptop-i7
      _type: slug
    price: 999
    discountPercentage: 20
    priceWithoutDiscount: 899
    rating: 4
    imageUrl: https://cdn.sanity.io/images/fcszfqqi/production/00022e37391c9cf4236ad5f9dc06bbe599490a00-1024x1024.webp
    _id: 00615863-3599-408f-8dae-e07c21b3f60d
    name: Dell Laptop i7
    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.
    ratingCount: 4
    tags: [...] 10 items
      0: dell
      1: i7
      2: i5
      3: i3
      4: laptop
      5: hp
      6: 7th generation
      7: 8th
      8: 10th
      9: 13th
```

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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```
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
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