

## Day 3 - API Integration and Data Migration Report - Bandage

### Objective

The goal for Day 3 was to integrate API data into Sanity CMS for the Bandage project, enabling dynamic content updates for the marketplace. This approach replaced manual data entry with a scalable, automated solution.

### 1. Sanity CMS Schema Design

To manage product data efficiently, a product schema was created in Sanity CMS with the following fields:

- **Main Fields:**
  - `title`: Product title (string).
  - `description`: Product description (text).
  - `productImage`: Main product image (image).
  - `price`: Product price (number).
  - `tags`: Tags for categorization (array of strings).
  - `discountPercentage`: Discount percentage (number).
  - `isNew`: Indicates if the product is new (boolean).

### 2. API Integration and Data Migration

#### *API Data Fetching*

Product data, including images, titles, descriptions, prices, and tags, was fetched from an external API and mapped to the corresponding fields in the product schema.

#### *Data Population in Sanity CMS*

The fetched data was dynamically populated in Sanity CMS, ensuring consistency and reducing manual errors.

### **Data Migration Steps**

- **Exporting Data:** Product data was exported using the Sanity CLI for backup.
- **Verification:** The exported JSON was reviewed for completeness and accuracy.
- **Re-importing Data:** After verification, the dataset was re-imported to confirm successful migration and frontend display.

### **3. Tools Used**

- **Sanity Studio:** For schema creation and content management.
- **Sanity CLI:** For exporting and importing datasets, ensuring data consistency.
- **Sanity Vision:** For API debugging and validation.

### **Conclusion**

The API integration and data migration tasks were successfully completed, improving the efficiency and scalability of the Bandage project. This setup ensures dynamic content updates, simplifies maintenance, and guarantees data consistency across the system.