# Day 3 - API Integration and Data Migration (Template 3)

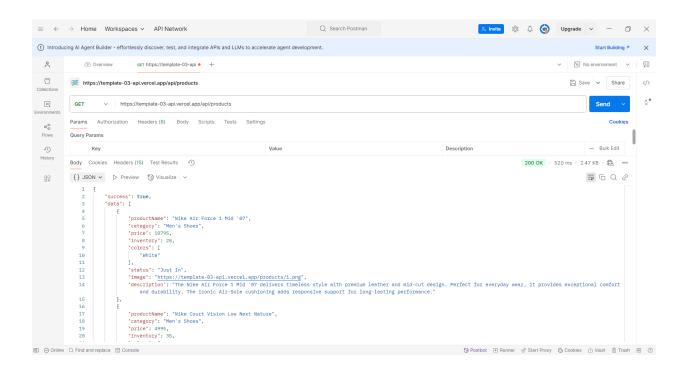
#### Objective:

The goal for Day 3 was to integrate the API provided for Template 3 and migrate its data into Sanity CMS to create a functional backend for a marketplace. This process aligns closely with real-world practices, focusing on schema validation, data transformation, and seamless API integration.

# **Key Outcomes from Template 3**

#### 1. API Overview:

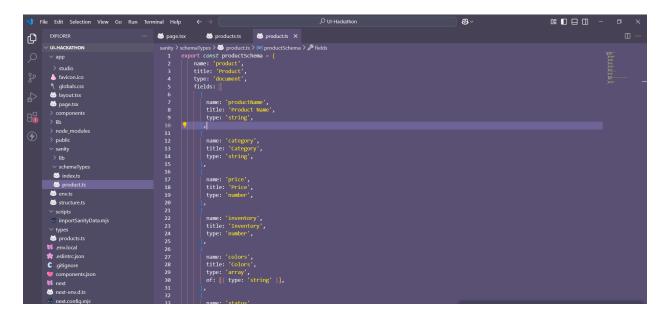
- API URL: https://template-03-api.vercel.app/api/products
- This API provided the product data required to populate the marketplace.



#### 2. Schema Validation:

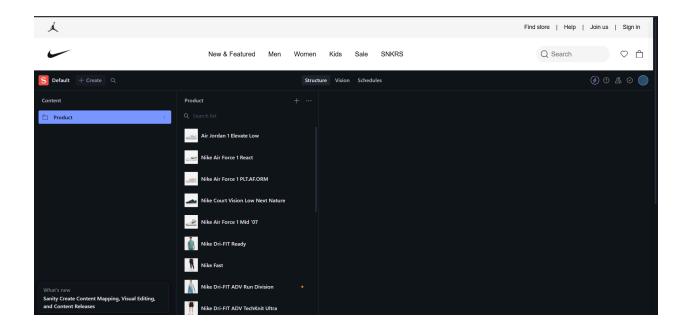
- The Sanity CMS schema needed adjustments to match the API data.
- For instance:

- API field: product\_title
- Schema field: name
- Mapping these fields ensured data compatibility during migration.



# 3. Data Migration:

- Utilized the migration script provided for Template 3:
  - Data Migration Script
- Fetched and transformed data from the API into a format compatible with the schema.



## 4. API Integration in Next.js:

- Created reusable utility functions to fetch data from the API.
- Rendered product listings and categories on the frontend.
- Tested endpoints using Postman and validated the API responses.

# Steps I Followed

### 1. Understanding the Template 3 API

- Reviewed API documentation and identified key endpoints:
  - o /products: For fetching the list of products.

#### 2. Validating and Adjusting the Schema

- Compared the Sanity schema to the API response structure.
- Updated the schema in Sanity CMS:
  - Adjusted field names and data types to align with the API.

#### 3. Migrating Data

- Ran the migration script to pull data from the API.
- Verified the data was correctly imported into Sanity CMS.

- Example:
  - Migrated product data with fields like name, price, and category.

# 4. Integrating the API in Next.js

- Built utility functions to handle API calls and data fetching.
- Rendered the fetched data in frontend components.
- Tested the integration to ensure all data was displayed correctly.

### **Deliverables**

## 1. Sanity CMS:

- Populated with Template 3 product data.
- o Adjusted schema validated against the API data structure.

# 2. Frontend Integration:

- Displayed product listings fetched via API.
- o Included error handling for invalid responses or empty data sets.