

# Hackathon Day 3: API Integration and Data Migration

## Template 5

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## Overview

This document provides a detailed report on the API integration and data migration process into Sanity. The goal is to build a fully functional e-commerce website by integrating external APIs and migrating data into Sanity for efficient content management.

## API Integration

### API Requirements

- 1. API Documentation Review:**
    - Review the API documentation provided by the service.
    - Identify the endpoints, request methods (e.g., GET, POST), and data formats (e.g., JSON, XML).
  - 2. Endpoints:**
    - Products API:**  
<https://giaic-hackathon-template08.vercel.app/api/products>
    - Categories API:**  
<https://giaic-hackathon-template08.vercel.app/api/categories>
  - 3. Understanding the Endpoints:**
    - Products API:** Fetches a list of products with details such as name, price, description, and image.
    - Categories API:** Fetches a list of product categories.
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## Data Migration

### Step 1: Setup Next.js Project

- Create a new Next.js project by running the following command:
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### Step 2: Install Sanity

1. Install Sanity into your project using the following command:  
`npm install @sanity/client @sanity/image-url`
  2. Follow the [Sanity setup guide](#) to configure Sanity in your project.
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### Step 3: Create Sanity Schema

1. Navigate to `src/sanity/schemaTypes`.
2. Create a file named `product.ts` and add schema.
3. Create another file named `categories.ts` and add schema.

### Step 4: Data Migration Script

1. Create a folder named `scripts` in the root directory.
2. Inside the `scripts` folder, create a file named `migrate.mjs` and add code:
3. Install the required dependency.
4. Run the migration script.

### Step 5: Fetch and Display Data

1. Use Sanity's GROQ query language to fetch data from your Sanity project.
  2. Display the fetched data in your Next.js application.
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## Conclusion

By following the steps outlined in this document, you have successfully integrated external APIs and migrated data into Sanity. This will enable you to build a functional e-commerce website with a robust content management system.