**Hackathon Day 3: API Integration and Data Migration**

**Template 5**

**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.

## ****Data Migration****

### ****Step 1: Setup Next.js Project****

1. Create a new Next.js project by running the following command:

### ****Step 2: Install Sanity****

1. Install Sanity into your project using the following command:

npm install @sanity/client @sanity/image-url

1. Follow the [Sanity setup guide](https://www.sanity.io/docs/getting-started) to configure Sanity in your project.

### ****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.

## ****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.