Day 3 - API Integration Report Komal's Shoes E-commerce Store

Overview of Marketplace Website Integration and API Setup

This document outlines the integration process of an API into the e-commerce website for Komal's Shoes Store. The goal is to transition from static product data to a dynamic and scalable solution using Sanity CMS as a content management system (CMS).

Objective

The website initially contained hardcoded product details such as names, images, and prices. To improve flexibility and ensure real-time updates, we integrated Sanity CMS to dynamically manage and retrieve product data. Using GROQ queries, the website fetches updated product information directly from the CMS, eliminating the need for manual updates in the code. This document provides a step-by-step guide on how the API was integrated, ensuring a seamless transition from static data to a dynamic, real-time updating system that enhances both user experience and ease of content management.

Objectives:

- Integrating APIs into the shoe store website.
- Migrating product data into Sanity CMS.
- Ensuring compatibility between the API and the CMS schema.

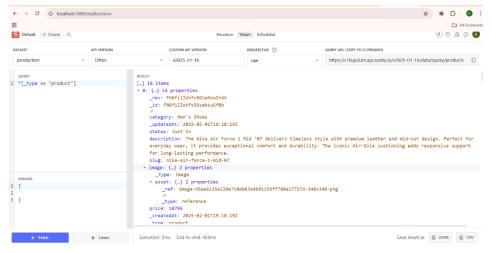
API Integration

Folder Structure and API Setup:

I have created a data folder in src directory and add products.json file in data to configure API inside it. So that product data can be fetch dynamically.

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```

Testing the API:



Schema Adjustments

I have Created a schema in Sanity CMS and add slug field which was missing in schema to fetch data dynamically and import product.ts file in sanity/schemaTypes/index.ts

```
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        src > sanity > TS productts > [②] product > [ॐ] fields

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```

Data Migration

Method Used:

 Created an import script named importSanityData.js to migrate data into Sanity CMS.

Steps for Migration:

- 1. Install required dependencies: npm install @sanity/client axios dotenv
- 2. Run the import script: npm run import-data
- 3. Verify that data has been successfully imported into Sanity CMS.

```
D:\assignments\nike>npm run import-data

> nike@0.1.0 import-data
> node scripts/importSanityData.mjs

migrating data please wait...

products ==>> [

{
    productName: "Nike Air Force 1 Mid '07",
    category: "Men's Shoes",
    price: 10795,
    inventory: 20,
    colors: ['White'],
    status: 'Just In',
    image: 'https://template-03-api.vercel.app/products/1.png',
    description: "The Nike Air Force 1 Mid '07 delivers timeless style with premium leather and mid-c
ut design. Perfect for everyday wear, it provides exceptional comfort and durability. The iconic Air-
Sole cushioning adds responsive support for long-lasting performance.",
    slug: 'nike-air-force-1-mid-07'
},

{
    productName: 'Nike Court Vision Low Next Nature',
    category: "Men's Shoes",
    price: 4995,
    inventory: 35,
    colors: ['Black'],
    status: 'Just In',
    image: 'https://template-03-api.vercel.app/products/2.png',
    description: 'The Nike Court Vision Low Next Nature combines retro basketball style with modern s
    ustainability. Made with at least 20% recycled content, it features a sleek design, durable materials
    , and ultimate comfort for everyday wear.',
    slug: 'nike-court-vision-low-next-nature'
},

{
```

Result:

• Product data is successfully migrated into Sanity CMS.

• GROQ queries are used to fetch and display data dynamically in the project.

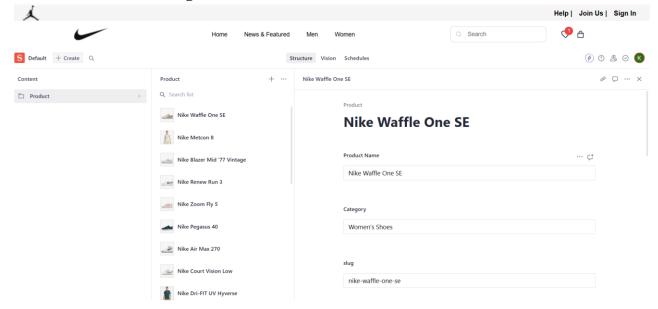
Validation Checklist:

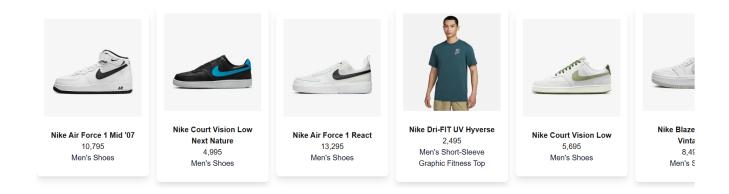
- Data populated in Sanity CMS: Yes
- Product details displayed correctly on the frontend: Yes
- Errors handled gracefully: Yes

Result and Output

Expected Output:

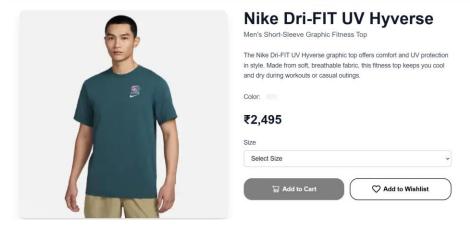
- 1. Data in Sanity CMS:
 - o Products stored with details such as:
 - Name
 - Price
 - Category
 - Image





2. Frontend Display:

o Product listings, categories, and detailed pages working as intende



Conclusion

The API integration successfully replaced static product data with a dynamic, CMS-driven approach using Sanity. The website now reflects real-time updates from the CMS, improving efficiency, scalability, and user experience.