GIAIC

HACKATHON 3 DAY 3 (Nextjs)

API Integration Report - [NIKE]

Objective:

The aim of Day 3 is to:

- 1. Integrate APIs into the Next.js project.
- 2. Migrate product data and related content into Sanity CMS.
- 3. Ensure compatibility by validating the schemas.
- 4. Display data fetched from APIs on the frontend dynamically.

1.API Integration

Product API:

I used API for my project, which was given by my teacher, to fetch product data and integrate it into my application. Each product contains the necessary details such as the name, price, description, image, and inventory, making it suitable for the dynamic nature of my e-commerce site.

API: https://template-03-api.vercel.app/api/products

This endpoint provides data for products, including:

- id: Unique identifier for each product.
- name: Name of the product.
- price: Price of the product.
- description: Product description.

- image: URL of the product image.
- inventory: Available inventory quantity.
- **size:** Available sizes for the product (if applicable).

2. Schema Validation:

Explored the Sanity CMS to ensure compatibility with the Product API and adjusted the schema as needed.

• Product Schema:

This is the Product Schema for the API.

```
name: 'product',
type: 'document',
fields: [
    name: 'productName',
    title: 'Product Name',
    type: 'string',
    name: 'category',
title: 'Category',
type: 'string',
    name: 'slug',
    type: 'slug',
    title: 'Slug',
    options: {
      source: 'productName',
      maxLength: 96,
      slugify: (input: any) =>
        input
           .toLowerCase()
          .replace(/[^\w\s-]+/g, '')
          .replace(/\s+/g, '-')
.replace(/--+/g, '-')
           .replace(/^-+|-+$/g, ''),
    name: 'tags',
    type: 'array',
    title: 'Tags',
of: [{ type: 'string' }],
    name: 'price',
    type: 'number',
    name: 'inventory',
    title: 'Inventory',
```

3. Data Migration Steps:

I proceeded with migrating the product data from the API to Sanity CMS, ensuring the proper mapping of fields and accurate data insertion.

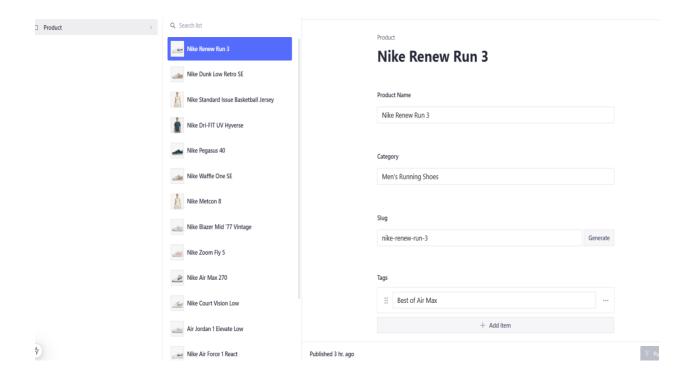
Run this Script to Migrate the data



Populated Sanity CMS fields:

The Sanity CMS schema fields match the product data, displaying details like name, price, description, image, inventory, and size correctly.

Sanity Fields:

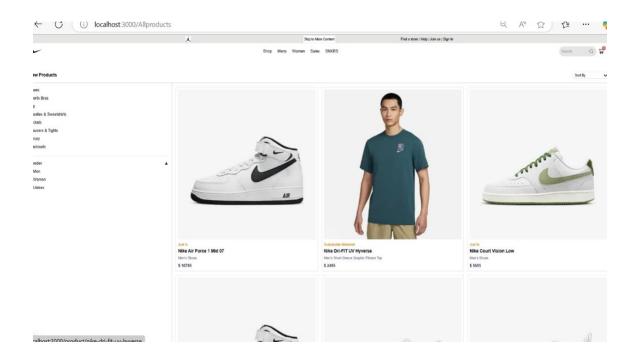


Tools Used:

I used the following tools for the API integration and data migration process:

- Next.js: For frontend development and API handling.
- Sanity: As the CMS for managing and storing product data.
- dotenv: For managing environment variables securely.
- Axios: For making HTTP requests to fetch product data from the API.

Data successfully displayed in the frontend:







Nike Court Vision Low

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