

Day 3 - API Integration Report E-commerce Website

On day 3 includes data migration to sanity, data integration from Sanity, schema development, and fetch data through GROQ queries using Next.js.

API Integration Process

The API integration process began by setting up the necessary environment variables to securely connect to both the external API and Sanity CMS. The following environment variables were used:

- NEXT_PUBLIC_SANITY_PROJECT_ID: Sanity Project ID
- NEXT_PUBLIC_SANITY_DATASET: Sanity Dataset (defaults to "production" if not provided)
- NEXT_PUBLIC_SANITY_AUTH_TOKEN: Sanity Authentication Token
- BASE_URL: Base URL for the external API.

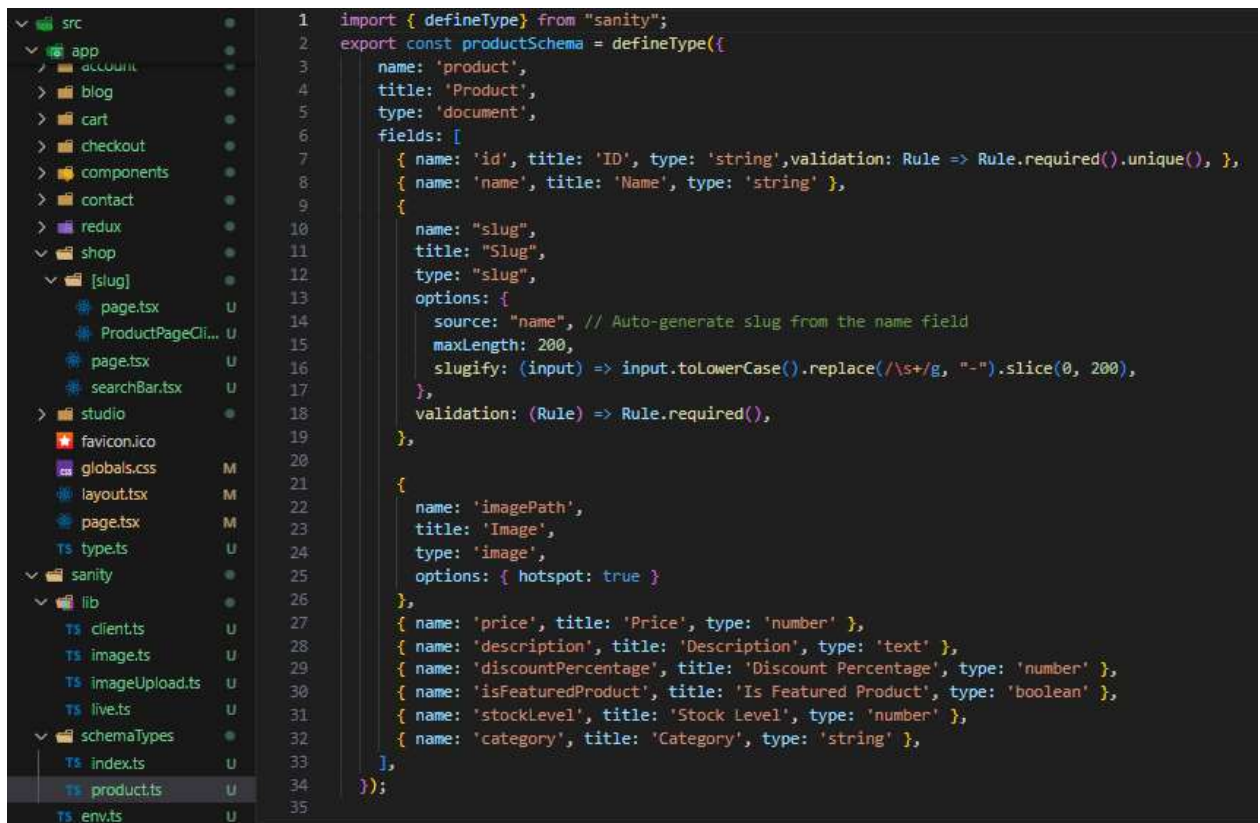
The integration process involved fetching product data from an external API endpoint (/api/product) using the fetch function.

Adjustments Made to Schemas

In this project, I worked with a Sanity schema for the product document. Adjustments included:

- Adding a slug field that generates a URL-friendly version of the product name (using the slugify library).
- Using a custom image upload function to fetch images from external URLs and upload them to Sanity as assets.

- Modifying the product creation logic to ensure unique entries by checking the product's ID and name against existing records in Sanity.



```

1 import { defineType } from "sanity";
2 export const productSchema = defineType({
3   name: 'product',
4   title: 'Product',
5   type: 'document',
6   fields: [
7     { name: 'id', title: 'ID', type: 'string', validation: Rule => Rule.required().unique(), },
8     { name: 'name', title: 'Name', type: 'string' },
9     {
10      name: "slug",
11      title: "Slug",
12      type: "slug",
13      options: {
14        source: "name", // Auto-generate slug from the name field
15        maxLength: 200,
16        slugify: (input) => input.toLowerCase().replace(/\s+/g, "-").slice(0, 200),
17      },
18      validation: (Rule) => Rule.required(),
19    },
20     {
21      name: 'imagePath',
22      title: 'Image',
23      type: 'image',
24      options: { hotspot: true }
25    },
26     { name: 'price', title: 'Price', type: 'number' },
27     { name: 'description', title: 'Description', type: 'text' },
28     { name: 'discountPercentage', title: 'Discount Percentage', type: 'number' },
29     { name: 'isFeaturedProduct', title: 'Is Featured Product', type: 'boolean' },
30     { name: 'stockLevel', title: 'Stock Level', type: 'number' },
31     { name: 'category', title: 'Category', type: 'string' },
32   ],
33 });
34
35

```

Data Migration

The migration script was built using the following tools:

- **Sanity Client:** To interact with Sanity CMS and upload product data.
- **Node Fetch:** For fetching external data and images.
- **Slugify:** To generate slugs from product names.
- **Environment Variables:** For securely storing sensitive API keys and project information.

Default

Create

StructureVisionSchedules

Content

Product

Product

Search list:

Luxury Flower Bed

Blue Bed

Red Bed

White Bed

Solid Bed

Matilda Velvet Bed

Diondre Chair

Leisure Sofa Chair Set

Liberty Center

Steek Modern Table

Replica Table

Alpha Table

Cozy Sofa

High Quality Modern Sofa

Luxury Flower Bed

Product

Luxury Flower Bed

ID

21

Name


Luxury Flower Bed

Slug

luxury-flower-bed

Generate

Image



Published last week