# Day 3: API Integration and Data Migration

Today's task involved API integration and data migration into Sanity CMS. The focus was on importing product data from an external API into Sanity CMS and then fetching it dynamically for the frontend. This was a multi-step process, and I enjoyed every bit of it!

# **What I Did Today**

## 1. API Testing with Thunder Client

Before importing data, I tested the API endpoints using Thunder Client to ensure everything was working correctly.

**Example Endpoint Tested:** 

/products

Response Example:

# 2. Imported Data into Sanity CMS

To populate Sanity CMS with API data, I used the provided data migration script. This script fetched data from the external API and imported it into Sanity CMS using its APIs.

### Script Workflow:

- 1. Fetch data from the external API.
- 2. Map the API fields to the Sanity schema fields.
- 3. Push the transformed data into Sanity CMS.

## **During Import:**

- Ensured that API field names (like product\_title) matched Sanity schema fields (like name).
- Validated data before pushing it into Sanity CMS.

# 2. Updated the Sanity CMS Schema

I made significant updates to the **Product Schema** in Sanity CMS to enhance its functionality and adaptability.

## Key Changes I Made:

- Introduced discountPercentage, isFeaturedProduct, tags, and color for added flexibility.
- Replaced static category options with dynamic references to a Category Schema.

# 3. Data Fetching from Sanity CMS

I created a utility function getAllProducts.ts in my project library to fetch data dynamically from Sanity CMS.

# 4. Frontend Integration

I integrated the getAllProducts function into various components and pages, such as:

- Featured Products Section
- Latest Products on the Shop Page
- Dynamic Product Details Page using Routing

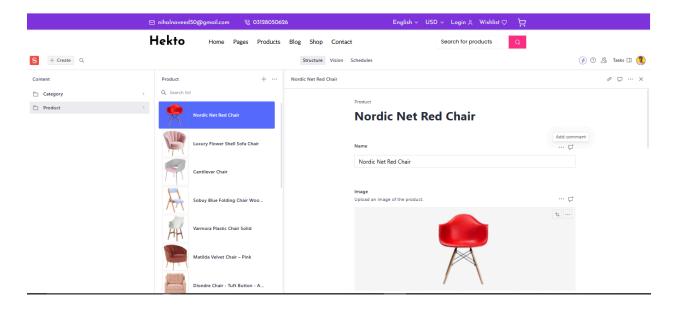
Example for Dynamic Routing (Single Product Page):

### What's Next:

Moving forward, I'll work on further enhancing the user experience and adding additional features like product filtering, sorting, and SEO optimizations.

This journey has been incredibly fulfilling so far, and I'm excited to see what Day 4 brings!

Let me know your thoughts, feedback, or suggestions.





### **Shop Grid Default**

Home . Pages . Shop Grid Defauls

#### Ecommerce Accepties & Fashion item





Uchiwa Quilted Launge Chair

• • • \$1600 <del>(1000.00</del>



Cazy Armchair

... \$520 <del>6478.40</del>



Alpha Chair - Solid Ebanised Oak

... \$900 <del>680.00</del>



Liberty Wood 63' Floating Entertainment Center

\$1100 <del>(1010.00</del>



Matilda Velvet Chair - Pink

\$600 <del>(800.00</del>



Varmora Plastic Chair Solid • • •

\$100 <del>\$78.00</del>



Sobuy Blue Folding Chair Wooden Podded

••• \$120 G106.60



Nordic Net Red Chair

\$320 6205.00



Tribù Elio Chair \$1200 <del>\$1000.00</del>

Stylish Golden Metal Legs Mint Blue Fabric Velvet Safa Leisure Armchair

•••

\$700 6700



Rapson Thirty-Nine Guest Chair \$1300 <del>\$108.00</del>



Nautilus Launge Chair

• • • \$1450 <del>\$1076.00</del> Hekto Hara Dea Statute Day Day Cartain

Security for providents.



#### **Product Details**

Horn, Signs, Scottari Orbeits



Description Additional Info Reviews Video

#### **Various Temper**

Lazer, ipum deller di sensi annatirius adipisising elli ipum postdeni natus unde Helds similique ipus alliquem nature, secum aperium parintur surge limpar even sumpel' Approxime Engli spite illum fenere nisi.

#### More Details

- $\varphi$  . Loven ipsum shelor sit somet, connectetur neliptikating elit. Puglist, spanil
- Lover Space shalo sit meri, consentator sullphining elli. Nagini, quad
- Lacron Speace sheller stit menet, namentetur andiploining ellit. Regist, speed
- Lauren Sprace skelter sitt menet, mennesterkar mellytiskring sellt. Progiset, spracel

### Related Products



Union Galled Lawye Clair Entro ETEXOS



Coop direction \$1020-\$2000.00



Alpha Chair - Rold Massical Cell \$1000 \$200.00



Liberry Wand 62 Planting Enversionant Center

BIOGRAPHICO.

```
name: "product",
type: "document",
title: "Product",
               defineField({
   name: "name",
   type: "string",
                    name: "image",
type: "image",
                     title: "Image",
                    options: {
  hotspot: true,
                     description: "Upload an image of the product.",
                    name: "price",
type: "string",
title: "Price",
                    name: "description",
type: "text",
title: "Description",
                    name: "discountPercentage",
type: "number",
title: "Discount Percentage",
                     relief. Discount Ferencing ,
validation: (Rule) =>
  Rule.min(0).max(100).warning("Discount must be between 0 and 100."),
                    name: "isFeaturedProduct",
type: "boolean",
title: "Is Featured Product",
                    name: "stockLevel",
type: "number",
title: "Stock Level",
                     ratio. State test
validation: (Rule) =>
  Rule.min(0).error("Stock level must be a positive number."),
                    rane: "category",
type: "reference",
title: "Category",
to: [{ type: "category" }],
validation: (Rule) => Rule.required().error("Category is required"),
                   name: "color",
title: "Color",
type: "array",
of: [{ type: "string" }],
                   name: "tags",
title: "Tags",
type: "array",
description: "Add tags for SEO",
of: [{ type: "string" }],
```

```
import {client } from "@/sanity/lib/client"
export const getAllProducts = async () => {
  const query = `*[_type == "product"]{
    image{
        url
    price,
    description,
    discountPercentage,
    isFeaturedProduct,
    stockLevel,
    category->{
    title
    tags,
 }`;
  const allProducts = await client.fetch(query);
return allProducts;
};
```