Day 3 - API Integration Report: Furniro E-Commerce

Overview:

This report documents the API integration and data management setup for the Furniro website using Sanity CMS. The goal is to design a seamless system to retrieve product data from the backend and display it accurately on the frontend. The report includes the integration process, schema customization, migration steps, and screenshots.

API Integration Process:

1: Data Source

Data was fetched from the given API endpoint: https://template6-six.vercel.app/api/products

The product data included the following fields: Title, Description, Price, Image URL, Discount Percentage, Tags, isNew

2: Integration Steps

- **Schema Design:** A custom product schema was created in Sanity CMS to align with the structure of the imported data.
- **Import Script:** A migration script was written to fetch data from the API and upload it to Sanity CMS.
- **Image Handling:** The script was enhanced to handle images as arrays and generate unique references.
- **Data Validation:** Validation rules for fields like slug, price, and reviews were implemented.
- **API Endpoints:** Endpoints were created to retrieve data from Sanity CMS for use in the frontend.

3: Schema Adjustments

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Category

Slug

Summary

Key validation rules and slug uniqueness checks were implemented.

```
. .
     export const product = defineType({
         name: "product",
title: "Product",
type: "document",
                   name: "title",
title: "Title",
                   validation: (rule) => rule.required(),
type: "string"
                   type:"text",
validation: (rule) => rule.required(),
                   type: "image",
validation: (rule) => rule.required(),
                   name: "price",
type: "number",
                    validation: (rule) => rule.required(),
                   title: 'Slug',
type: 'slug',
                         maxLength: 200,
                   name: "category",
type: "string",
title: "Category",
                   validation: (rule) => rule.required(),
                        list: [
                             type: 'text',
validation: (rule) => rule.required(),
                   type: "array",
title: "Tags",
of: [{ type: "string" }]
                    type:"number",
title:"Discount Percentage",
```

Day 3 - AP 00420416)

Migration Steps:

1. Tools Used

- Sanity Client: For uploading data.
- Fetch: For API calls.
- .env: For managing environment variables.

2. Migration Script

The script fetches API data and imports it into Sanity CMS while handling images.

```
try {
   console.log('Uploading image: $(imageUrl)');
```

API Calls:

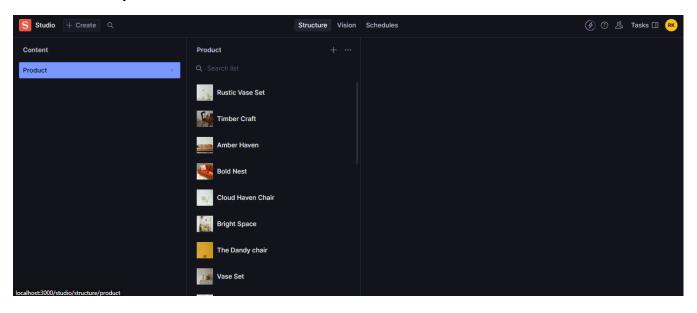
Fetch All Products

```
import { groq } from "next-sanity";
import sanityClient from "./sanity.client";
export async function getProducts() {
    return sanityClient.fetch(
       groq
        *[_type == "product"]{
        title,
       description,
        category,
        summary,
        isNew
export async function getHomeProducts() {
    return sanityClient.fetch(
        *[_type == "product"][0...8]{
        category,
        summary,
        isNew
```

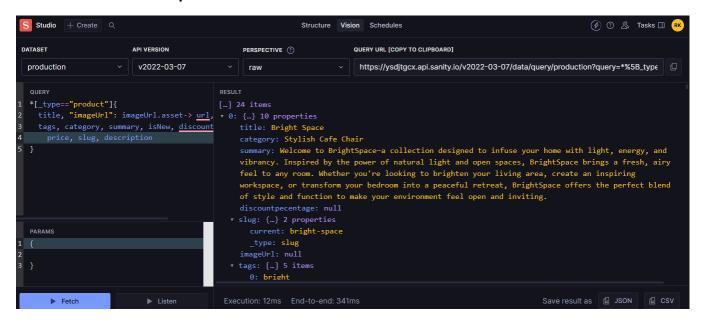
Fetch Product by Slug

Screenshots

1. Data Import

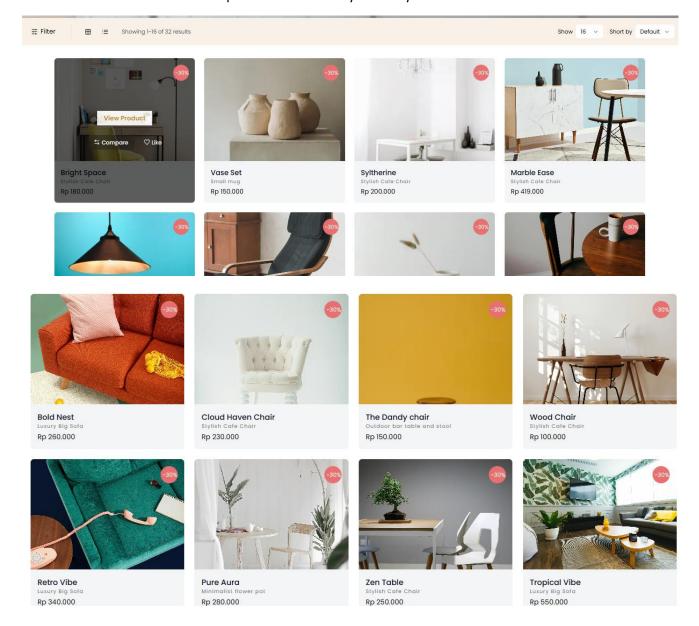


2. API Call Response



3. Frontend Display

Screenshot of Furniro products rendered dynamically on the website.



Conclusion:

The integration established a seamless process for importing, validating, and displaying Furniro product data from the API into Sanity CMS. Custom schemas and migration scripts ensured data consistency and project alignment. Future steps include enhancing API queries and implementing advanced features like search and filtering.