

Day 3 - API Integration Report - [E-Commerce Furniture Website]

1. Introduction

- This project is an **e-commerce furniture website**.
- Instead of using the provided API, I opted to manually add data to **Sanity CMS**.
- Sanity CMS was used to store and manage the data, which was then fetched into the project using GROQ queries and displayed on the frontend.

2. Data Integration Process

1. Data Entry in Sanity CMS:

- Manually added furniture data (e.g., titles, prices, descriptions, and images).
- Created separate documents for each furniture item.

2. Sanity Setup in the Project:

- Configured the Sanity client using `@sanity/client`.
- Wrote GROQ queries to fetch the data dynamically.

3. Frontend Rendering:

- Used React components to display data fetched from Sanity CMS.
- Implemented a clean UI to showcase product details like titles, images, and prices.

3. Adjustments Made to Schemas

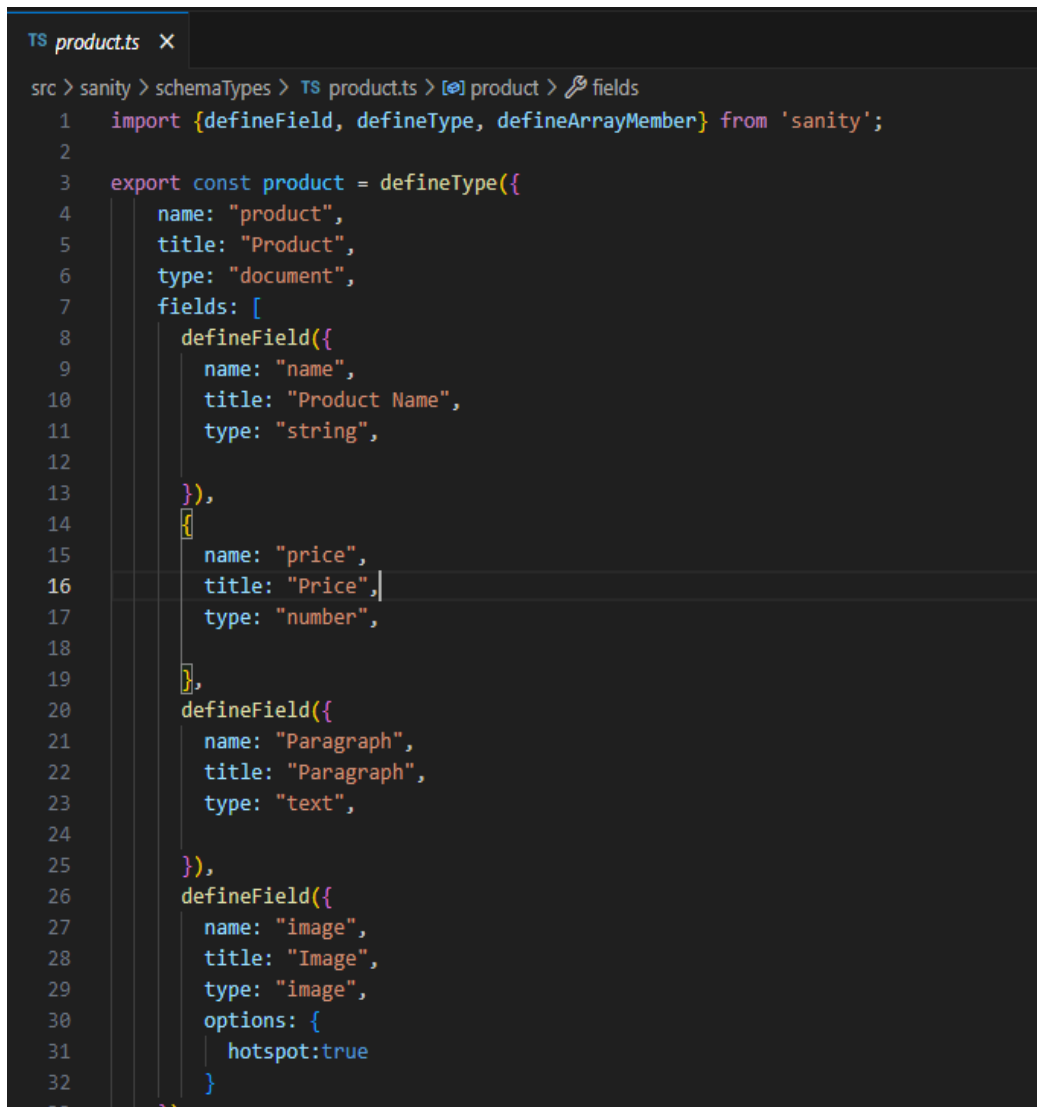
- I customized the Sanity CMS schema to include the following fields:
 - **Title:** Name of the furniture item.
 - **Price:** Cost of the product.
 - **Description:** Details about the product.
 - **Image URL:** Path to the product image.

4. Migration Steps and Tools Used

- Since I manually added data directly into Sanity CMS, there were no external migration tools required.
- Sanity's built-in schema and data editor were used for setup and management.

5. Screenshots to Include

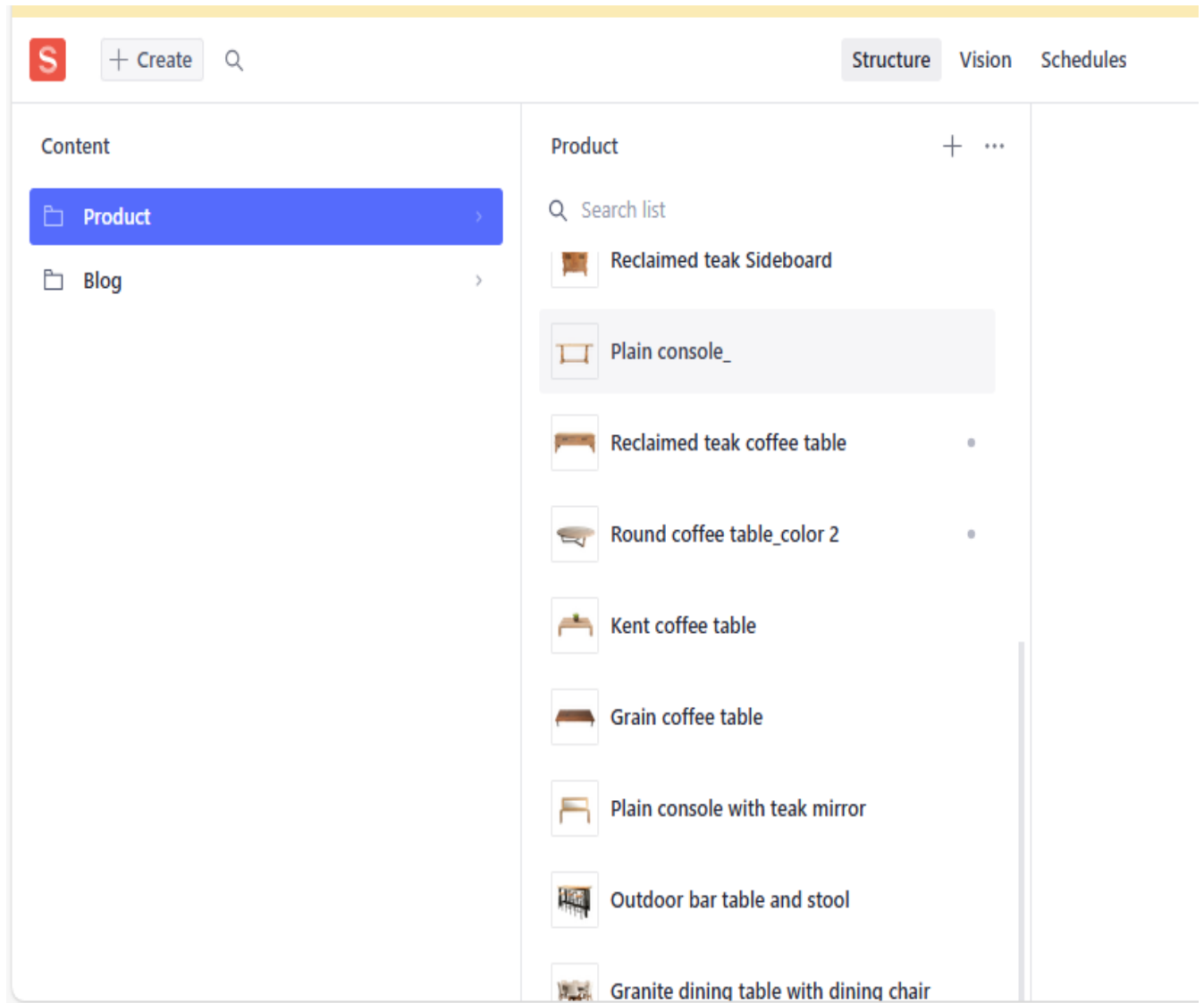
1. **Sanity CMS Schema Setup:** Show how the schema was structured.



```
TS product.ts X
src > sanity > schemaTypes > TS product.ts > [⌕] product > fields
1  import {defineField, defineType, defineArrayMember} from 'sanity';
2
3  export const product = defineType({
4    name: "product",
5    title: "Product",
6    type: "document",
7    fields: [
8      defineField({
9        name: "name",
10       title: "Product Name",
11       type: "string",
12     }),
13     {
14       name: "price",
15       title: "Price",
16       type: "number",
17     },
18     {
19       name: "Paragraph",
20       title: "Paragraph",
21       type: "text",
22     },
23     {
24       name: "image",
25       title: "Image",
26       type: "image",
27       options: {
28         hotspot: true
29       }
30     }
31   ]
32 })
```

```
34     {
35         name: "thumbnailImages",
36         title: "Thumbnail Images",
37         type: "array",
38         of: [{ type: "image" }],
39     },
40     defineField({
41         name: "slug",
42         type: "slug",
43         title: "Slug",
44         options: {
45             source: "name",
46             maxLength: 96,
47             slugify: (input) =>
48                 input
49                     .toLowerCase()
50                     .replace(/\s+/g, "-")
51                     .slice(0, 96),
52         },
53     }),
54     defineField({
55         name: "block",
56         title: "Block",
57         type: "array",
58         of: [{ type: 'block' }]
59     }),
60 ]
61
62 })
```

2. **Populated Data in Sanity CMS:** The data entries I manually added.



3. **API Calls in the Code:** Screenshot of my GROQ queries fetching the data.

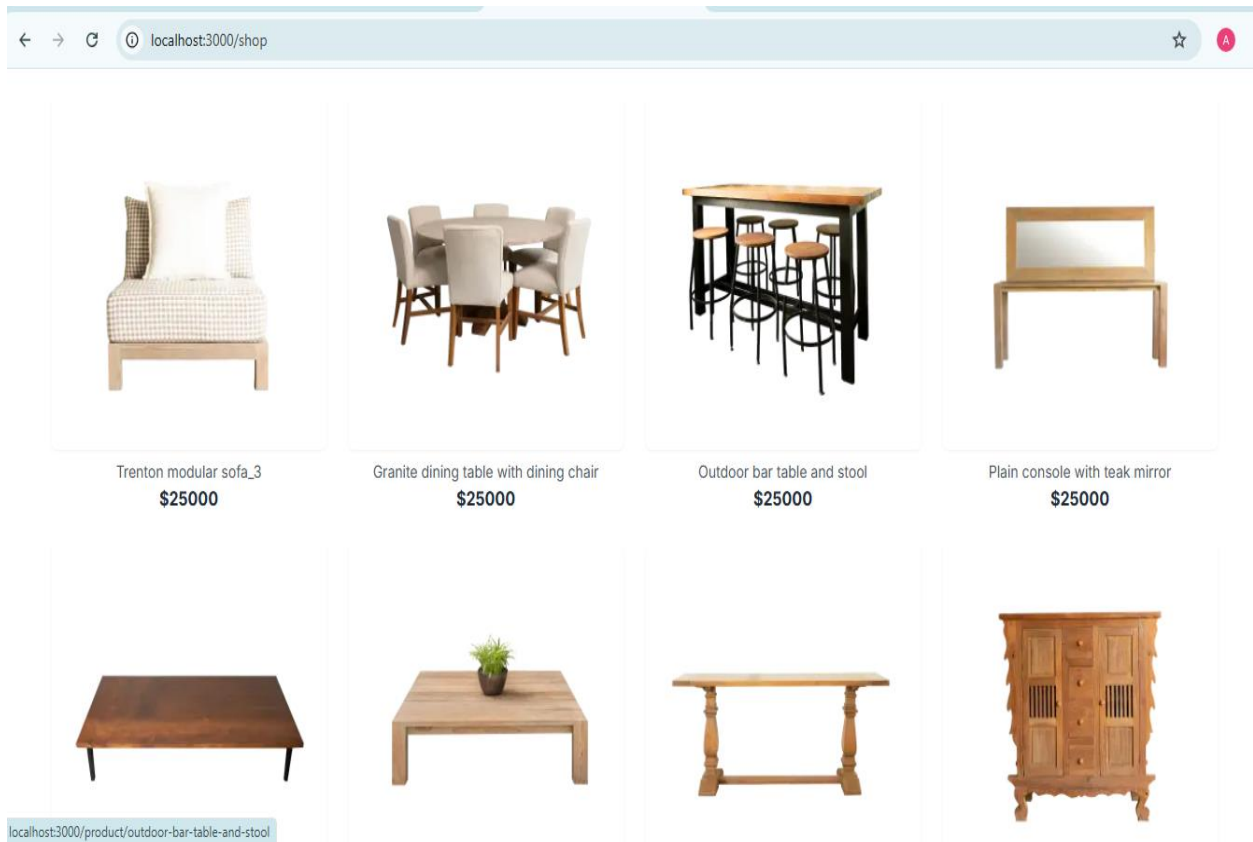
```
page.tsx M X
src > app > shop > page.tsx > Shop
1  import { client } from "@sanity/lib/client";
2  import { urlFor } from "@sanity/lib/image";
3  import Image from "next/image";
4  import Link from "next/link";
5
6
7  interface Product {
8    name: string;
9    image: { asset: { url: string } };
10   price: number;
11   slug: { current: string };
12 }
13
14 const Shop = async () => {
15
16   const query = `*_type == 'product' | order(_updatedAt asc) {
17     name,
18     image,
19     price,
20     slug
21   }`;
22
23   // Fetch data from Sanity
24   const data: Product[] = await client.fetch(query);
25
```

page.tsx U X

src > app > product > [slug] > page.tsx > ...

```
1  'use client';
2  import { useState, useEffect, Key } from 'react';
3  import { client } from '@sanity/lib/client';
4  import Link from 'next/link';
5  import Image from 'next/image';
6  import { PortableText } from 'next-sanity';
7  import { urlFor } from '@sanity/lib/image';
8  import { useCart } from '@context/cartContext'; // Import the useCart hook
9
10 const ProductPage = ({ params: { slug } }: { params: { slug: string } }) => {
11   const [productData, setProductData] = useState<any>(null);
12   const [quantity, setQuantity] = useState(1);
13   const { cartItems, addToCart } = useCart(); // Access cart state and addToCart from context
14
15   useEffect(() => {
16     const fetchProductData = async () => {
17       const query = `*[_type == 'product' && slug.current == '${slug}']{
18         name, price, Paragraph, image, thumbnailImages, block
19       }`;
20
21       const data = await client.fetch(query);
22       setProductData(data[0] || null);
23     };
24
25     fetchProductData();
26   }, [slug]);
27 }
```

4. **Frontend Display:** Here's how the furniture items are being displayed on my website (titles, images, etc.).



Home / Shop / Asgaard sofa



Asgaard sofa

Rs. 250000

★★★★☆ (5 Customer Reviews)

The Asgaard Sofa is a luxurious and contemporary piece that blends comfort with modern design. With its plush cushions and sleek silhouette, it offers both style and relaxation, making it the perfect addition to any living room or lounge area.

Size

Color



Quantity

6. Challenges and Learnings

- **Challenges:**
 - Understanding GROQ syntax and applying filters for specific data.
 - Configuring Sanity CMS schema to suit the project requirements.
- **Learnings:**
 - Gained hands-on experience with Sanity CMS and GROQ queries.
 - Learned how to structure and fetch data efficiently for dynamic websites.

7. Conclusion

- Successfully integrated Sanity CMS with the project to fetch and display data.
- Despite not using the provided API, the workflow is seamless, and the website displays all furniture data dynamically.