

Day-3 API Integration Report

1. API Integration Process:

- a. **Overview:** Migrating Products data from an API to Sanity and then fetching from sanity to UI/UX to display on website.

2. Adjustment made to schema:

- Added categories schema

```
src > sanity > schemaTypes > TS categories.ts > ...
1
2 import { defineType } from "sanity";
3
4 export const categorySchema = defineType({
5   name: 'categories',
6   title: 'Categories',
7   type: 'document',
8   fields: [
9     {
10      name: 'title',
11      title: 'Category Title',
12      type: 'string',
13    },
14    {
15      name: 'image',
16      title: 'Category Image',
17      type: 'image',
18    },
19    {
20      title: 'Number of Products',
21      name: 'products',
22      type: 'number',
23    }
24  ],
25 });
26
```

3. Migration Steps and Tools used:

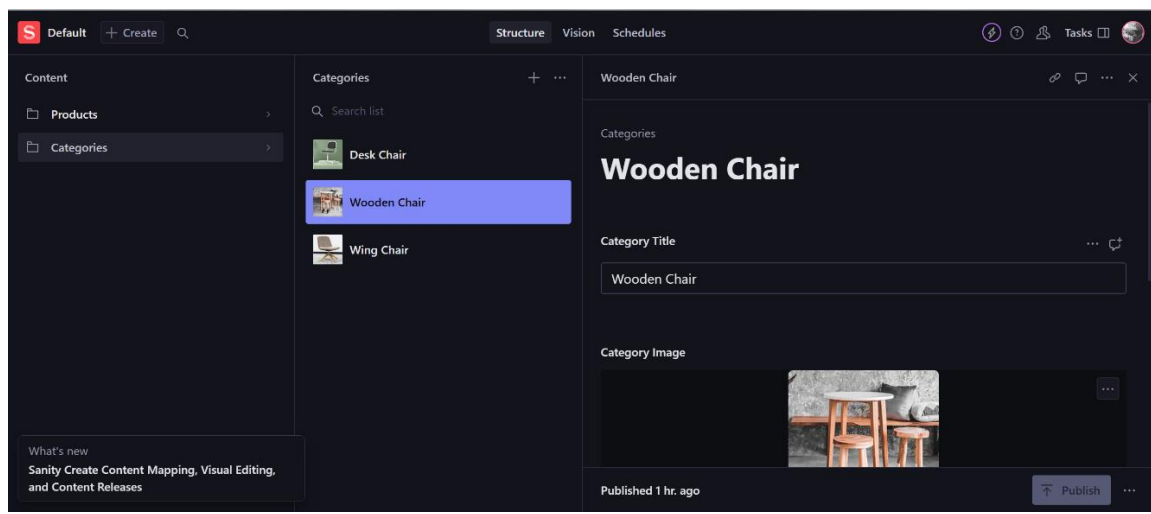
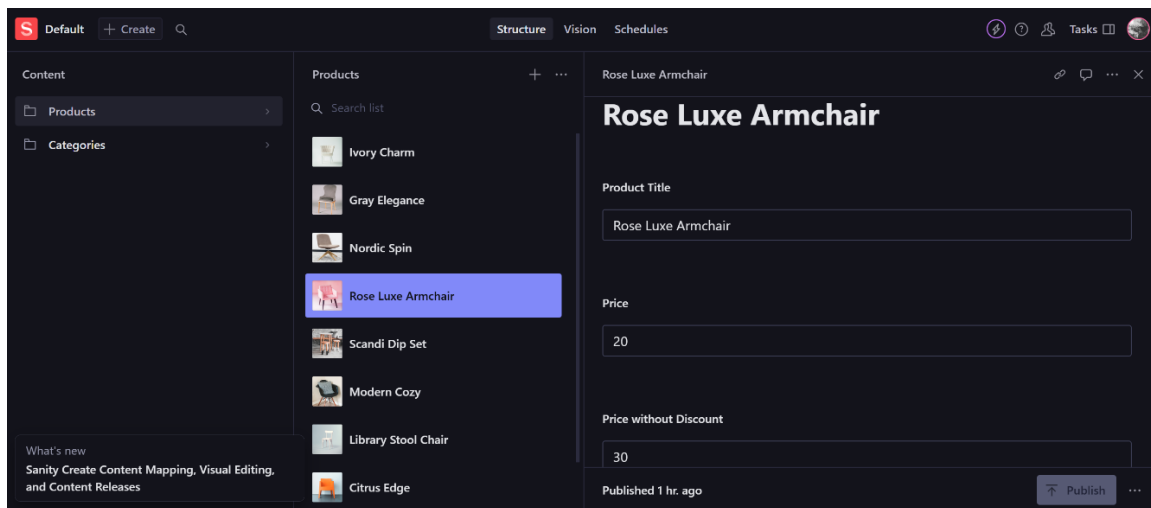
- i. Downloaded index.ts, products.ts and categories.ts scheme file from <https://github.com/Hamzah-syed/giaic-hackathon-template-08> in schema Types folder.

- ii. Open .env file and add Token (get token from sanity/manage/project-name/API/token. From your sanity browser).
- iii. Add a file named migrate.mjs in scripts folder, add data from the above given repo.
- iv. Add this code in package.json:


```
"migrate": "node scripts/migrate.mjs"
```
- v. Install package “`npm install dotenv`”
- vi. Run command: “`npm run migrate`” to migrate products and categories data into sanity.

• **Error Handling:** I got error while using these commands:

- 1. npm install dotenv:** It was not working in next 15, I reinstalled Next 14 version , it started working.
- 2. npm run migrate:** I forgot to add sanity production data in migrate.mjs file, so data was not migrating into sanity.



4. Data Fetching and Display:

i. Create sanityClient.js file inside sanity/lib, and add production data.

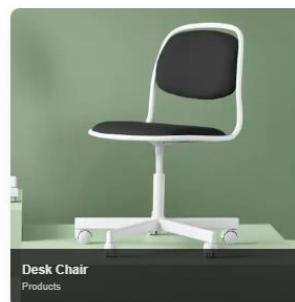
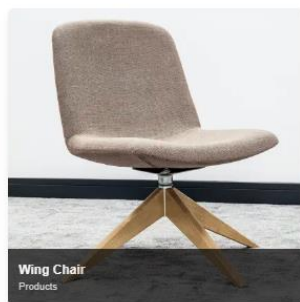
```
src > sanity > lib > .js sanityClient.js > ...
1 import sanityClient from "@sanity/client";
2
3 const client = sanityClient({
4   projectId: process.env.NEXT_PUBLIC_SANITY_PROJECT_ID || "1...rk", // Sanity project ID
5   dataset: process.env.NEXT_PUBLIC_SANITY_DATASET || "production", // Dataset name
6   useCdn: true, // Use CDN for faster performance
7   apiVersion: "2023-01-01", // API version
8   token: process.env.NEXT_PUBLIC_SANITY_AUTH_TOKEN, // Token for server-side access
9 });
10
11 export default client;
12 |
```

ii. Fetch data into components


```
src > components > @ ProductCards.jsx > ProductCards > Product
6 import sanityClient from "../sanity/lib/sanityClient"; // Import configured Sanity client
7
8 export default function ProductCards() {
9   > interface Product {
16   }
17
18   const [products, setProducts] = useState<Product[]>([]);
19
20   useEffect(() => {
21     const fetchProducts = async () => {
22       const query = `*[_type == "products" && "featured" in tags] | order(_createdAt desc) [0...4]{
23         _id,
24         title,
25         price,
26         "imageUrl": image.asset->url,
27         priceWithoutDiscount,
28         badge
29       }`;
30
31   >   try { ...
34   >   } catch (error) { ...
36   >   }
37   > };
38
39   fetchProducts();
40   }, []);
41
42   return (
43     <div className="px-4 sm:px-12 lg:px-28">
44       <h1 className="text-center lg:text-left font-bold mb-4 mt-6 text-[#272343] font-inter text-xl lg:text-[32px]">
45         Featured Products
46       </h1>
47       <div className="grid grid-cols-1 sm:grid-cols-2 lg:grid-cols-4 gap-6 mx-auto py-8">
48         {products.map((product) => (
49           <div
50             key={product._id}
```

5. Screenshot of data display:


Top Categories




Our Products




Ivory Charm
\$20




Sales
Gray Elegance
\$8




New
Nordic Spin
\$30




Sales
Rose Luxe Armchair
\$20 ~~\$30~~




Scandi Dip Set
\$40



Modern Cozy
\$20




New
Library Stool Chair
\$20




Citrus Edge
\$20


All Products




Sales
Rose Luxe Armchair
20 ~~30~~



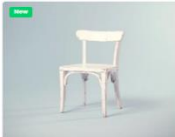
Sales
Gray Elegance
8




Ivory Charm
20




SteekSpin
20




New
Library Stool Chair
20




Modern Cozy
20



Citrus Edge
20



Scandi Dip Set
40



New
Nordic Spin
30