### "Day 3 - API Integration Report - FurniAura"

#### 1. API Integration Process

### **Steps Followed:**

#### 1. API Data Validation:

- o Imported the data from the provided API into Sanity CMS.
- Verified that all data fields were accurate and complete.

### 2. Testing GROQ Queries:

- Used the Vision tab in Sanity Studio to test GROQ queries for retrieving necessary data.
- Ensured all required fields were collected successfully via query execution.

### 3. Frontend Integration:

- Created a component file named Item.tsx inside the components folder to display all products.
- Stored the GROQ query in a variable named sanityData.
- Used Sanity Client to fetch data from sanityData.
- Mapped the retrieved data to the UI using a map function tailored to the frontend design.

#### 2. Adjustments Made to Schemas

- Modified the schema to include a slug field for each product.
  - o Enabled **auto slug generation** based on the product's title.
  - This adjustment allowed dynamic routing for individual product pages.

### 3. Migration Steps and Tools Used

### **Steps Followed:**

### 1. Custom Script for Data Migration:

Created a folder named scripts in the project root.

Added a script file named importData.mjs inside the folder.

### 2. Package Script Setup:

o Updated the **package.json** file by adding a custom script:

```
"scripts": {
    "import-data": "node scripts/importData.mjs"
}
```

### 3. Executing Migration:

o Ran the following command in the terminal to execute the migration:

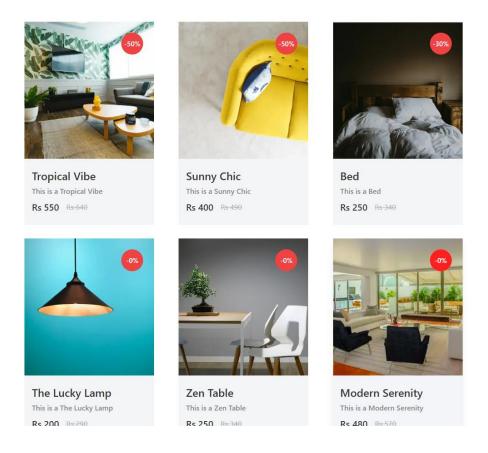
```
npm run import-data
```

o Successfully uploaded API data to Sanity Studio.

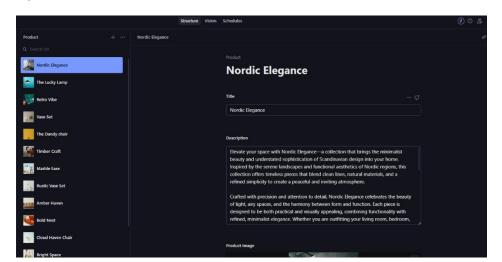
### **Screenshots:**

### 1. API Calls:

## 2. Frontend Display:



# 3. Sanity CMS Fields:



### **Code Snippets:**

1. GROQ Query in Item.tsx:

```
const [sanityData, setSanityData] = useState<Product[]>([]);
    const [loading, setLoading] = useState(true); // Add loading state
    useEffect(() \Rightarrow \{
        const fetchData = async () \Rightarrow {
            setLoading(true); // Set loading to true before fetching data
            const query = `*[_type = "product"] {
    _id,
    title,
    description,
    productImage,
    price,
    tags,
    dicountPercentage,
    isNew,
    slug
}`;
            const data = await client.fetch(query);
            setSanityData(data);
            setLoading(false); // Set loading to false after fetching data
        };
        fetchData();
    }, []);
```

2. Mapping Data in Frontend:

```
<div className="flex justify-center items-center w-[285px] h-[301px] bg-[#fff3e3]</pre>
                    src={urlFor(item.productImage).url()}
                    alt={item.title}
                    width = \{285\}
                    height={301}
                    className="w-full h-full object-cover"
                1>
            </div>
            \textbf{<div className="flex flex-col justify-center items-start gap-2 py-2 pl-4 h-[145px]">}
                <h1 className="font-[600] text-[24px] leading-[28px] text-[#3A3A3A]">
                    {item.title}
                </h1>
                <h1 className="font-[500] text-[16px] leading-[24px] text-[#898989]">
                    This is a {item.title}
                </h1>
                <div className="flex justify-center items-center gap-4">
                    <h1 className="font-[600] text-[20px] leading-[30px] text-[#3A3A3A]">
                        Rs {item.price}
                    </h1>
                    <h1 className="font-[400] text-[16px] leading-6 line-through text-[#B0B0B0]">
                        Rs {item.price + 90}
                    </h1>
                </div>
            </div>
        </div>
   </Link>
</div>
```

### 3. Custom Migration Script in importData.mjs:

```
import { createclient } from '@sanity/client';

const client - createclient({
    projectId: '@salk45',
    dataset: 'production',
    uscGun: true,
    apiVersion: '2025-01-13',
    token:
    '$\text{2}\text{Bullimits}\text{2}\text{5}\text{2}\text{5}\text{2}\text{1}\text{3}\text{2}\text{5}\text{2}\text{5}\text{2}\text{1}\text{3}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{2}\text{5}\text{5}\text{5}\text{5}\text{5}\text{5}\text{5}\text{5}\text{5}\text{5}\text{5}\text{5}\text{5}\text{5}\text{5}\text{5}\text{5}\text{5}\text{5}\text{5}\text{5}\text{5}\text{5}\text{5}\text{5}\text{5}\text{5}\text{5}\text{5}\text{5}\text{5}\text{5}\text{6}\text{5}\text{5}\text{6}\text{5}\text{6}\text{5}\text{6}\text{5}\text{6}\text{5}\text{6}\text{5}\text{6}\text{5}\text{6}\text{5}\text{6}\text{5}\text{6}\text{5}\text{6}\text{5}\text{6}\text{5}\text{6}\text{5}\text{6}\text{5}\text{6}\text{5}\text{6}\text{5}\text{6}\text{5}\text{6}\text{5}\text{6}\text{5}\text{6}\text{5}\text{6}\text
```

### 4. Self-Validation Checklist:

Day 3 Checklist:

Self-Validation Checklist:

API Understanding:

Schema Validation:

Data Migration:

API Integration in Next.js:

Submission Preparation: