

Hackathon

Day 3 - Report

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Day-3

API INTEGRATION REPORT

INTRODUCTION

PROJECT OVERVIEW

In this project "Comforty" which is the furniture Marketplace , I successfully imported an API data into Sanity CMS . And then used sanity groq to fetch the results according to the requirements . In this project I add features like product detail page , etc.

API INTEGRATION

The first API url is providing the data related to furniture and specifically about Sofa. The url is :

<https://giaic-hackathon-template-08.vercel.app/api/products>

This API offers the comprehensive details including:

Product Name

Product Price

Product category

Product Inventory

Product Image

Product badge

Product tags

Product Description

The Second API url is providing the data related to furniture and specifically about Categories. The url is :

<https://giaic-hackathon-template-08.vercel.app/api/categories>

This API offers the comprehensive details including:

Category Name

Category Image

MIGRATION TOOLS

I used Sir Ali Jawwad blog for the Migration of API data into Sanity.

[Sir Ali Jawwad Blog](#)

API CALLS SNAPSHOTS

Fetching Recommended

```
1  const fetchData = async () => {
2    let query = `*[_type == "products" && "Recommended" in badge][0...5]`
3    const featured = await client.fetch(query)
4    return featured
5  }
6
7  let [featured, setfeatured] = useState([])
8  useEffect(() => {
9    fetchData().then((data) => {
10      setfeatured(data)
11    })
12  }, [])
```

Fetching by Category and Filtering it

```
1  const query2 = `*[_type == "products" && category._ref == "${category_id}" ||
2    _type == "beds" && category._ref == "${category_id}"] | order(${selectedQuery})`;
3  const categoryProductsfiltered = await client.fetch(query2);
4  setproducts(categoryProductsfiltered);
```

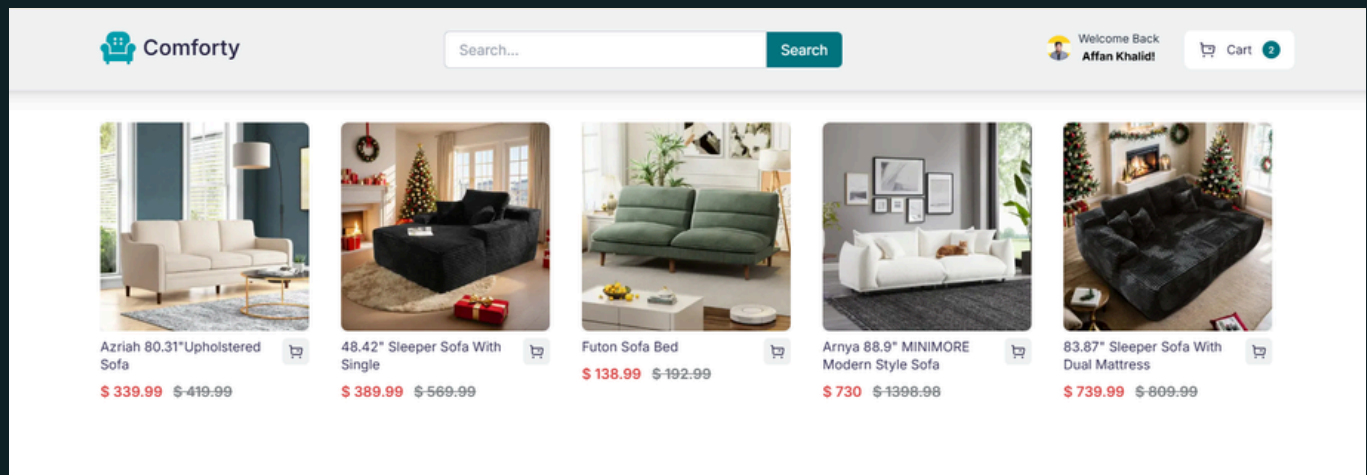
Fetching by Product Detail Page

```
1  const query1 = `*[ _type == "products" && slug.current == "${params.slug}"`  
2    || _type == "beds" && slug.current == "${params.slug}"][0]`;`;  
3  const singleProduct = await client.fetch(query1);  
4  setSingle(singleProduct);  
5  console.log(singleProduct);  
6
```

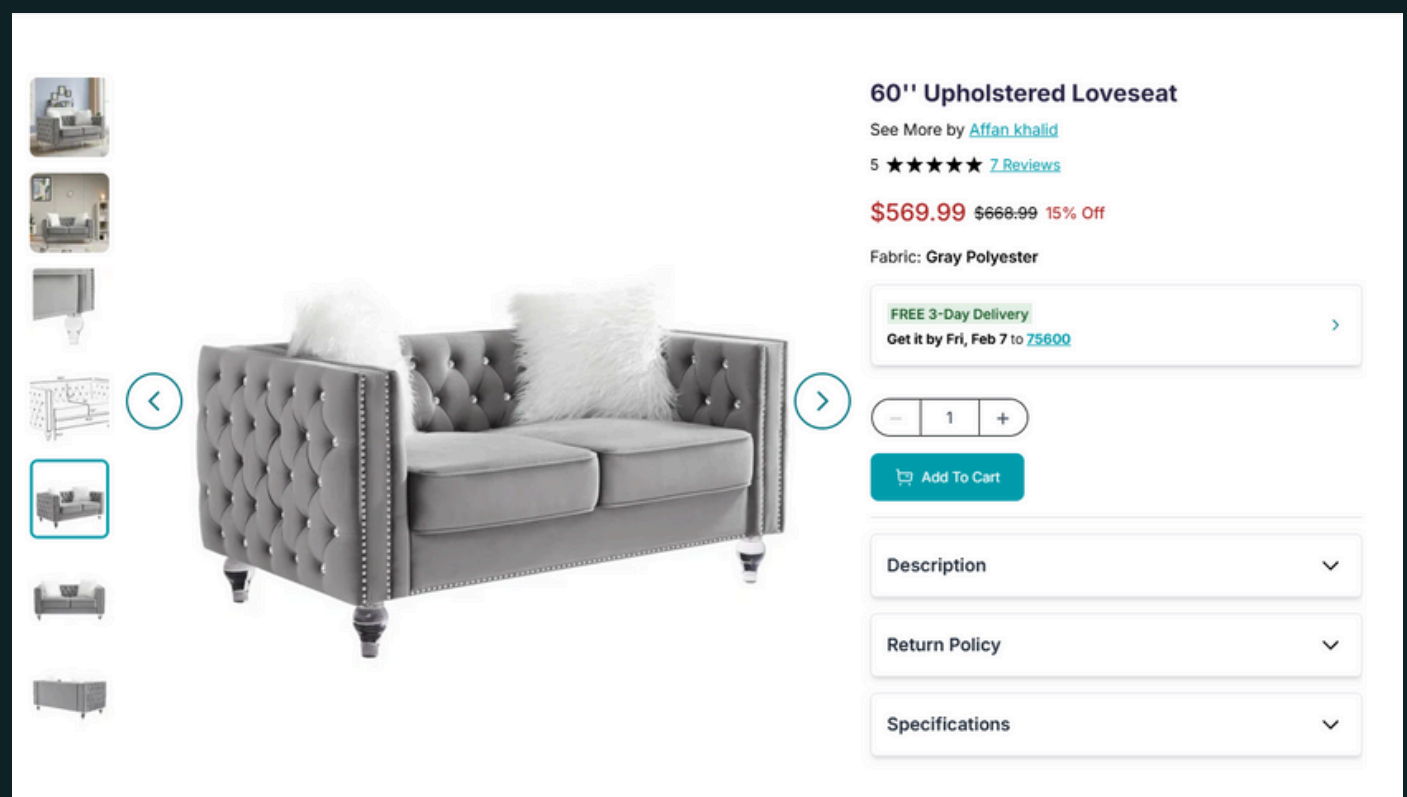
Fetching by CartItems

```
1  useEffect(() => {  
2    if (!userId) return; // Safe check inside the effect  
3  
4    const fetchData = async () => {  
5      let query = `*[ _type == "cartItems" && userId == "${userId}"]`;`;  
6      const cartdata = await client.fetch(query);  
7      console.log(cartdata);  
8      return cartdata;  
9    };  
10  
11    fetchData().then((data) => {  
12      setcart(data);  
13    });  
14  });
```

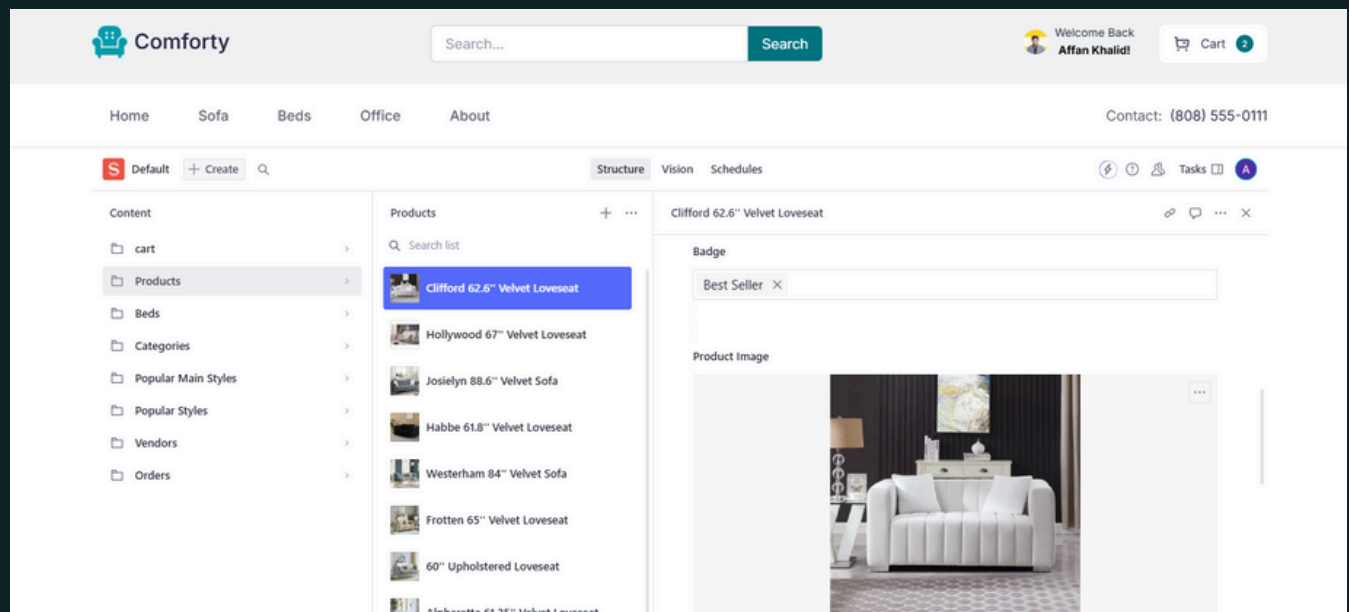
Frontend Page



Product Detail Page



Sanity CMS Studio Page



MIGRATION SCRIPT

The Migration Script is below:

The Migration Script for Migrating The API data into Sanity CMS.

```

1 import axios from 'axios';
2 import { client } from './sanityClient.js';
3
4 async function uploadImageToSanity(imageUrl: string): Promise<string> {
5
6   try {
7     // Fetch the image from the URL and convert it to a buffer
8     const response = await axios.get(imageUrl, { responseType: 'arraybuffer' });
9     const buffer = Buffer.from(response.data);
10
11     // Upload the image to Sanity
12     const asset = await client.assets.upload('image', buffer, {
13       filename: imageUrl.split('/').pop(), // Extract the filename from URL
14     });
15
16     // Debugging: Log the asset returned by Sanity
17     console.log('Image uploaded successfully:', asset);
18
19     return asset._id; // Return the uploaded image asset reference ID
20   } catch (error) {
21     console.error('❌ Failed to upload image:', imageUrl, error);
22     throw error;
23   }
24 }
25
26 async function importData() {
27   try {
28     // Fetch data from external API
29     // const response = await axios.get('https://fakestoreapi.com/products');
30     const response = await axios.get('https://677f518b0476123f76a5f453.mockapi.io/products');
31     const products = response.data;
32
33     // Iterate over the products
34     for (const product of products) {
35       let imageRef = '';
36
37       // Upload image and get asset reference if it exists
38       if (product.image) {
39         imageRef = await uploadImageToSanity(product.image);
40       }
41
42       const sanityProduct = {
43
44         _id: product.id,
45         ID: "ITM-".concat(product.id),
46         _type: 'amazon_products',
47         name: product.name,
48         price: product.price,
49         description: product.description,
50         tags: product.tags || [],
51         sizes: product.sizes || [],
52         rating: product.rating || 0,
53         image: {
54           _type: 'image',
55           asset: {
56             _type: 'reference',
57             _ref: imageRef
58           }
59         },
60         stock_quantity: product.stock_quantity
61       };
62
63       // Log the product before attempting to upload it to Sanity
64       console.log('Uploading product:', sanityProduct);
65
66       // Import data into Sanity
67       await client.createOrReplace(sanityProduct);
68       console.log('✅ Imported product: ${sanityProduct.name}');
69     }
70
71     console.log('✅ Data import completed!');
72   } catch (error) {
73     console.error('❌ Error importing data:', error);
74   }
75 }
76
77 importData();

```