API Integration Report - Furniro

Brand Name: Furniro

Theme: A focus on modern, vibrant, and stylish furniture collections, emphasizing contemporary home decor.

API Integration:

Step1: API Endpoint Setup

- ✓ API Endpoint: `https://template6-six.vercel.app/api/products`
- ✓ Data Structure: The API provides product data, including fields like name, description, Product Image, price, Discount Percentage
- ✓ Library Used: Axios was used to fetch data from the API.

Step2: Fetch Data from API

Adjustment Made to Schemas:

Product Schema

import { defineType } from "sanity"

export const product = defineType({

```
name: "product",

title: "Product",

type: "document",

fields: [

    {

        name: "title",

        title: "Title",

        validation: (rule) => rule.required(),

        type: "string"

    },

    {
```

```
    name:"description",

    type:"text",

    validation: (rule) => rule.required(),

    title:"Description",

},

{

    name: "productImage",

    type: "image",

    validation: (rule) => rule.required(),

    title: "Product Image"

},

{

    name: "price",

    type: "number",

    validation: (rule) => rule.required(),

    title: "Price",

},

{

    name: "tags",

    type: "array",

    title: "Tags",

    of: [{ type: "string" }]

},

{

    name:"dicountPercentage",

    type:"number",

    title:"Discount Percentage",

},
```

```
    {

        name:"isNew",

        type:"boolean",

        title:"New Badge",

    }

]

})
```

Migration Steps and Tool Used:

Migration Steps:

1. Environment Setup:

Installed required dependencies: `@sanity/client`, `axios`, `dotenv`.

Created a `.env.local` file to securely store environment variables.

2. Data Fetching:

Retrieved product data from the API endpoint using Axios.

Parsed and logged the data to confirm its structure and integrity.

3. Image Upload:

Downloaded images from the API's image field using Axios.

Uploaded the downloaded images to Sanity's Asset Manager using the Sanity client.

const buffer = await response.arrayBuffer();

```
const bufferImage = Buffer.from(buffer);


const asset = await client.assets.upload('image', bufferImage, {

  filename: imageUrl.split('/').pop(),

});
```

4. Document Creation:

Created Sanity documents for each product by combining API data and uploaded image references.

Tool Used:

Sanity Client: For interacting with the Sanity CMS.

Screenshots

API Call Output:

```
[
  {
    "id": "100001",
    "name": "Oak Wooden Chair",
    "description": "Durable and comfortable oak wood chair for home or office use.",
    "price": 45.99,
    "tags": [
      "furniture",
      "wood",
      "home"
    ],
    "sizes": [
      "Medium"
    ],
    "image": "https://m.media-amazon.com/images/I/71I3nSnHV3L.jpg",
    "rating": 4.7,
    "discountPercentage": 15,
    "category": "chair",
    "isFeaturedProduct": true,
    "stockLevel": 23
  },
  {
    "id": "100002",
    "name": "Mahogany Coffee Table",
    "description": "Elegant mahogany wood coffee table with intricate design.",
    "price": 99.99,
    "tags": [
      "furniture",
      "wood",
      "living room"
    ],
    "sizes": [
      "Large"
    ],
```

Frontend Display:

Nordic Elegance

$280

Elevate your space with Nordic Elegance—a collection that brings the minimalist beauty and understat...

Read More

Modern Serenity

$480

Introducing ModernSerenity—a collection that redefines contemporary living by combining tranquility ...

Read More

Reflective Haven

$300

Create a sanctuary of calm and introspection with ReflectiveHaven—a collection designed to bring pea...

Read More

Timber Craft

$320

Introducing TimberCraft—a collection that celebrates the timeless beauty of wood craftsmanship and t...

Read More

Bold Nest

$260

Welcome to BoldNest—where fearless design meets comfort and creativity. Crafted for those who embrac...

Read More

Cloud Haven Chair

$230

Sink into comfort with the Cloud Haven Chair—where softness meets support in a beautifully designed ...

Read More

Bright Space

$180

Welcome to BrightSpace—a collection designed to infuse your home with light, energy, and vibrancy. I...

Read More

The Dandy chair

$150

Meet The Dandy Chair—the epitome of comfort, style, and sophistication. Designed for those who appre...

Read More

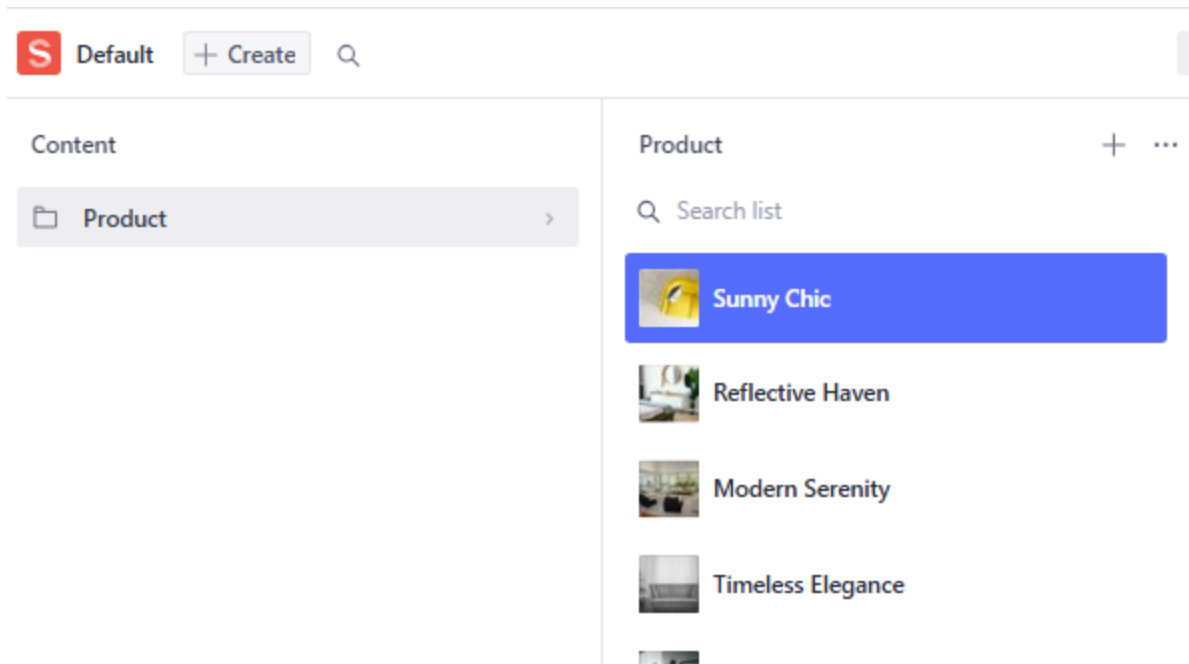# Add to Cart Display:

Cart

	Serene Seat ♥ 🗑	- 3 +	$1050.00

Cart Summary

Subtotal:	$1050.00
Delivery Charges:	$100.00
Total:	$1150.00

Proceed to Checkout

Populated Sanity Field:

Code Snippets:

API Integration

```
const response = await fetch('https://template6-six.vercel.app/api/products');
```

Migration Script

```
async function uploadImageToSanity(imageUrl) {
  try {
    console.log(`Uploading image: ${imageUrl}`);

    const response = await fetch(imageUrl);
    if (!response.ok) {
      throw new Error(`Failed to fetch image: ${imageUrl}`);
    }

    const buffer = await response.arrayBuffer();
    const bufferImage = Buffer.from(buffer);

    const asset = await client.assets.upload('image', bufferImage, {
      filename: imageUrl.split('/').pop(),
    });

    console.log(`Image uploaded successfully: ${asset._id}`);
    return asset._id;
  } catch (error) {
    console.error('Failed to upload image:', imageUrl, error);
    return null;
  }
}

async function uploadProduct(product) {
  try {
    const imageId = await uploadImageToSanity(product.imageUrl);
```

Final Check List:

- ✓ API Understanding
- ✓ Schema Validation
- ✓ Data Migration
- ✓ API Integration in Next.js
- ✓ Submission Preparation