

Day 3 - API Integration Report - Food Marketplace

API Integration Process

1. Environmental Setup:

- Installed necessary dependencies such as `@sanity/client`, `axios`, and `dotenv` using npm.
- Configured environment variables to store Sanity project credentials securely.

2. Sanity Client Creation:

- Initialized Sanity client using:
 - **Key Variables:**
 - `SANITY_PROJECT_ID`
 - `SANITY_DATASET`
 - `SANITY_API_TOKEN`

3. Data Fetching:

- Used `axios` OR `Fetch M<ethos` to fetch data from API endpoints for food and chef data.

4. Data Processing:

- Mapped the fetched data to match the adjusted schema structure.

5. Sanity Document Creation:

- Populated CMS using Sanity's `createOrReplace` method.

6. Error Handling:

- Implemented try-catch blocks and data validation to ensure smooth processing.

Adjustments Made to Schemas

Chef Schema:

- **Fields Added:**
 - `position`: Chef's designation.
 - `experience`: Total years of experience.
 - `speciality`: Area of expertise.
 - `available`: Boolean indicating availability.

Food Schema:

- **Fields Added:**
 - `category`: Food category (e.g., Dessert, Main Course).
 - `price`: Selling price.
 - `originalPrice`: Original price before discounts.
 - `tags`: Array of tags for filtering.
 - `available`: Boolean indicating availability.

Hotspot Option:

- Enabled hotspot and crop features for images in both schemas to allow resizing and cropping directly from Sanity Studio.
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Migration Steps and Tools Used

1. Preparation:

- Verified API access and created a plan to map the API response to the Sanity schema.

2. Data Import Script:

- Developed a script to fetch, process, and import data into Sanity.

3. Image Handling:

- Uploaded and attached images to documents using Sanity's asset API.

4. Document Creation:

- Iteratively created or updated documents in Sanity using processed data.

Tools Used:

- **Node.js Modules:**
 - `@sanity/client`
 - `axios`

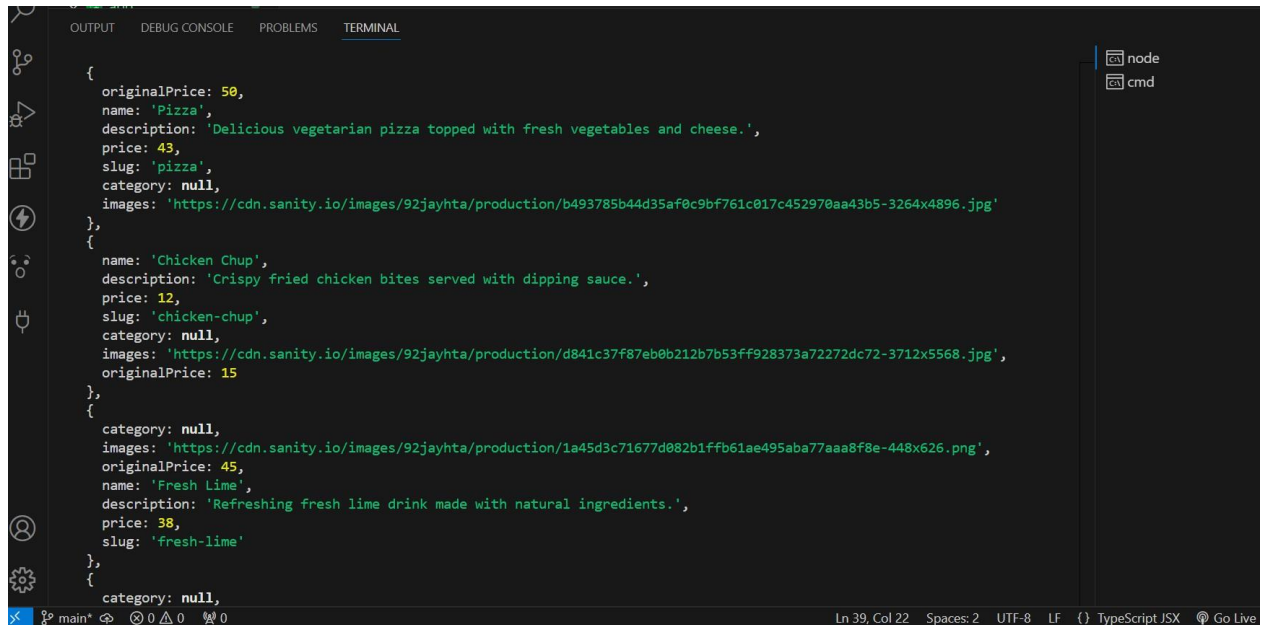
- `dotenv`
 - **Sanity Features:**
 - Hotspot and crop options for images.
 - `createOrReplace` method for seamless updates.
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```
7 // Load environment variables from .env.local
8 const __filename = fileURLToPath(import.meta.url);
9 const __dirname = path.dirname(__filename);
10 dotenv.config({ path: path.resolve(__dirname, '../.env.local') });
11
12 // Create Sanity client
13 const client = createClient({
14   projectId: process.env.NEXT_PUBLIC_SANITY_PROJECT_ID,
15   dataset: process.env.NEXT_PUBLIC_SANITY_DATASET,
16   useCdn: false,
17   token: process.env.SANITY_API_TOKEN,
18   apiVersion: '2021-08-31',
19 });
20
21 async function uploadImageToSanity(imageUrl) {
22   try {
23     console.log(`Uploading image: ${imageUrl}`);
24     const response = await axios.get(imageUrl, { responseType: 'arraybuffer' });
25     const buffer = Buffer.from(response.data);
26     const asset = await client.assets.upload('image', buffer, {
27       filename: imageUrl.split('/').pop(),
28     });
29     console.log(`Image uploaded successfully: ${asset._id}`);
30     return asset._id;
31   } catch (error) {
32     console.error('Failed to upload image:', imageUrl, error);
33     return null;
34   }
}
```

```
51     const foods = foodsResponse.data;
52     const chefs = chefsResponse.data;
53
54     for (const food of foods) {
55         console.log(`Processing food: ${food.name}`);
56
57         let imageRef = null;
58         if (food.image) {
59             imageRef = await uploadImageToSanity(food.image);
60         }
61
62         const sanityFood = {
63             _type: 'food',
64             name: food.name,
65             category: food.category || null,
66             price: food.price,
67             originalPrice: food.originalPrice || null,
68             tags: food.tags || [],
69             description: food.description || '',
70             available: food.available !== undefined ? food.available : true,
71             image: imageRef
72             ? {
73                 _type: 'image',
74                 asset: {
75                     _type: 'reference',
76                     _ref: imageRef,
77                 },
78             }
79             : undefined,
80         };
81
82         console.log('Uploading food to Sanity:', sanityFood.name);
83         const result = await client.create(sanityFood);
```

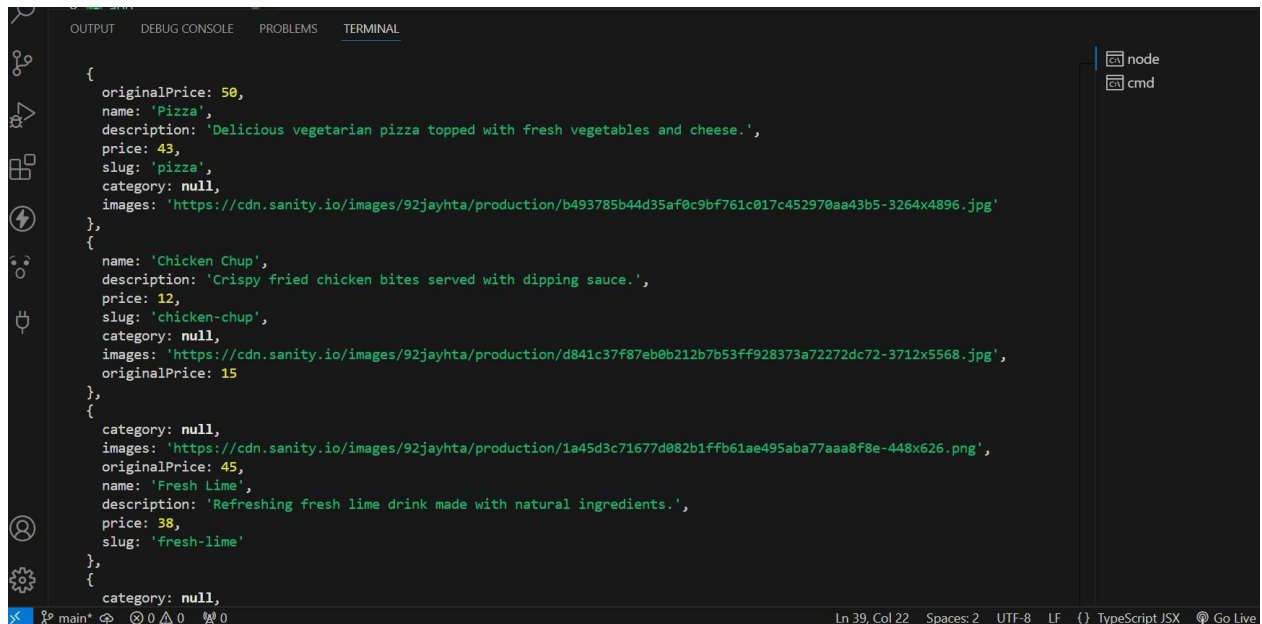
API Calls Food:



```
{
  originalPrice: 50,
  name: 'Pizza',
  description: 'Delicious vegetarian pizza topped with fresh vegetables and cheese.',
  price: 43,
  slug: 'pizza',
  category: null,
  images: 'https://cdn.sanity.io/images/92jayhta/production/b493785b44d35af0c9bf761c017c452970aa43b5-3264x4896.jpg'
},
{
  name: 'Chicken Chup',
  description: 'Crispy fried chicken bites served with dipping sauce.',
  price: 12,
  slug: 'chicken-chup',
  category: null,
  images: 'https://cdn.sanity.io/images/92jayhta/production/d841c37f87eb0b212b7b53ff928373a72272dc72-3712x5568.jpg',
  originalPrice: 15
},
{
  category: null,
  images: 'https://cdn.sanity.io/images/92jayhta/production/1a45d3c71677d082b1ffb61ae495aba77aaa8f8e-448x626.png',
  originalPrice: 45,
  name: 'Fresh Lime',
  description: 'Refreshing fresh lime drink made with natural ingredients.',
  price: 38,
  slug: 'fresh-lime'
},
{
  category: null,

```

API Calls Chefs:

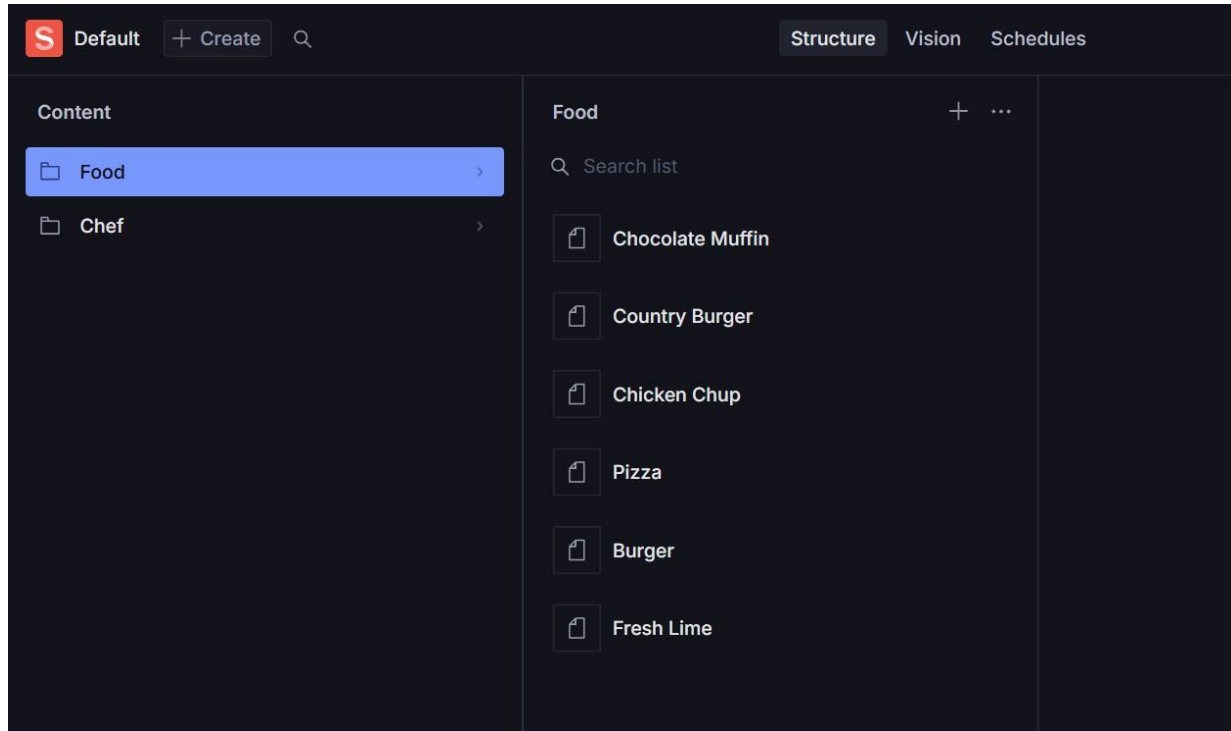


```
{
  originalPrice: 50,
  name: 'Pizza',
  description: 'Delicious vegetarian pizza topped with fresh vegetables and cheese.',
  price: 43,
  slug: 'pizza',
  category: null,
  images: 'https://cdn.sanity.io/images/92jayhta/production/b493785b44d35af0c9bf761c017c452970aa43b5-3264x4896.jpg'
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  category: null,

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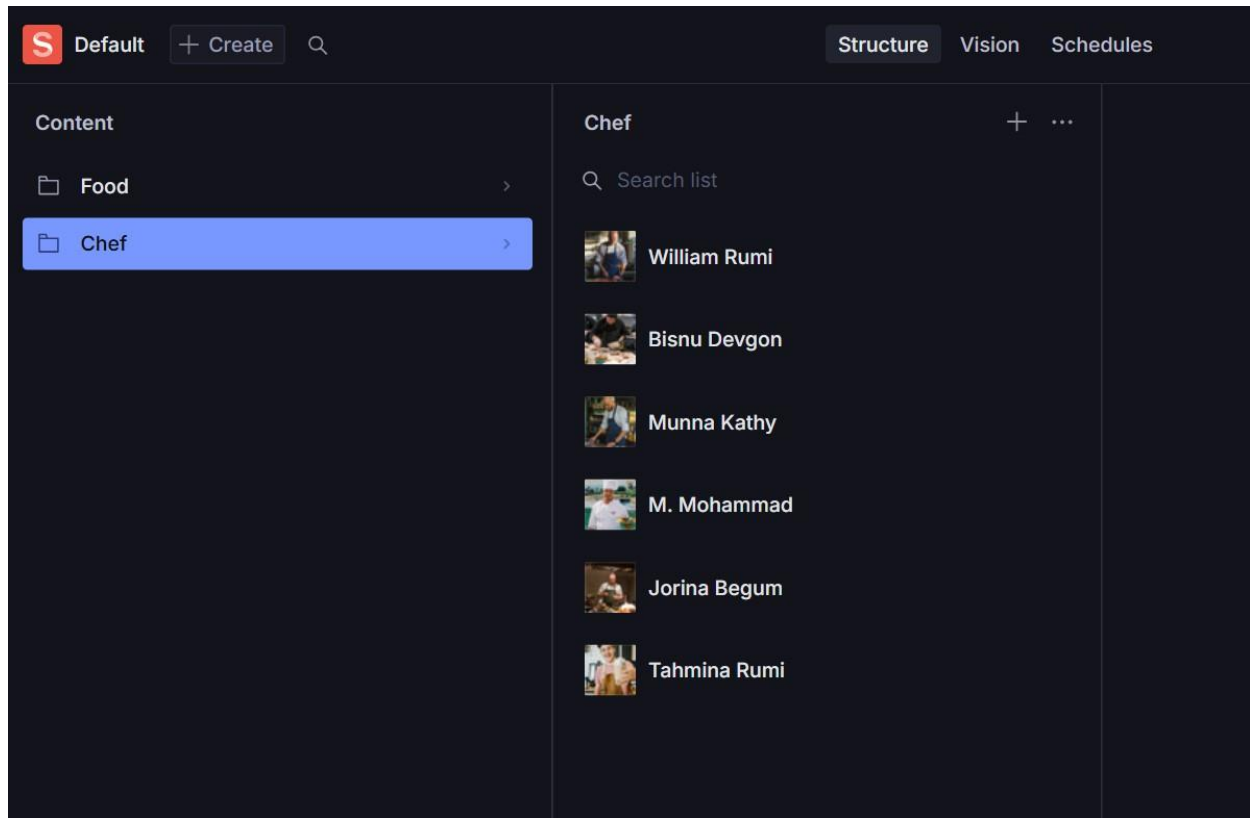
Sanity CMS Fields

Food



Sanity CMS Fields

Chef



Data Displayed In FointEnd (Next.Js)



Pizza
\$43.00 ~~\$50.00~~



Chicken Chup
\$12.00 ~~\$15.00~~



Fresh Lime
\$38.00 ~~\$45.00~~



Chocolate Muffin
\$28.00 ~~\$30.00~~



Burger
\$21.00 ~~\$45.00~~



Country Burger
\$45.00 ~~\$50.00~~



