

DAY 03 – API INTEGRATION RESORT OF FOODSTUCK

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 Method` 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 `Create` OR `Replace` method.

6. Error Handling:

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

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Adjustments Made to Schemas

Chef Schema:

- **Fields Added:**

Positions: Chef's designation.

Experience: Total years of experience.

Specialty: 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 discount.

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.

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:**

- Upload and attach images to documents using Sanity asset API.

4. **Document Creation:**

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

Tools Used:

- Node.js Modules:

@sanity/client

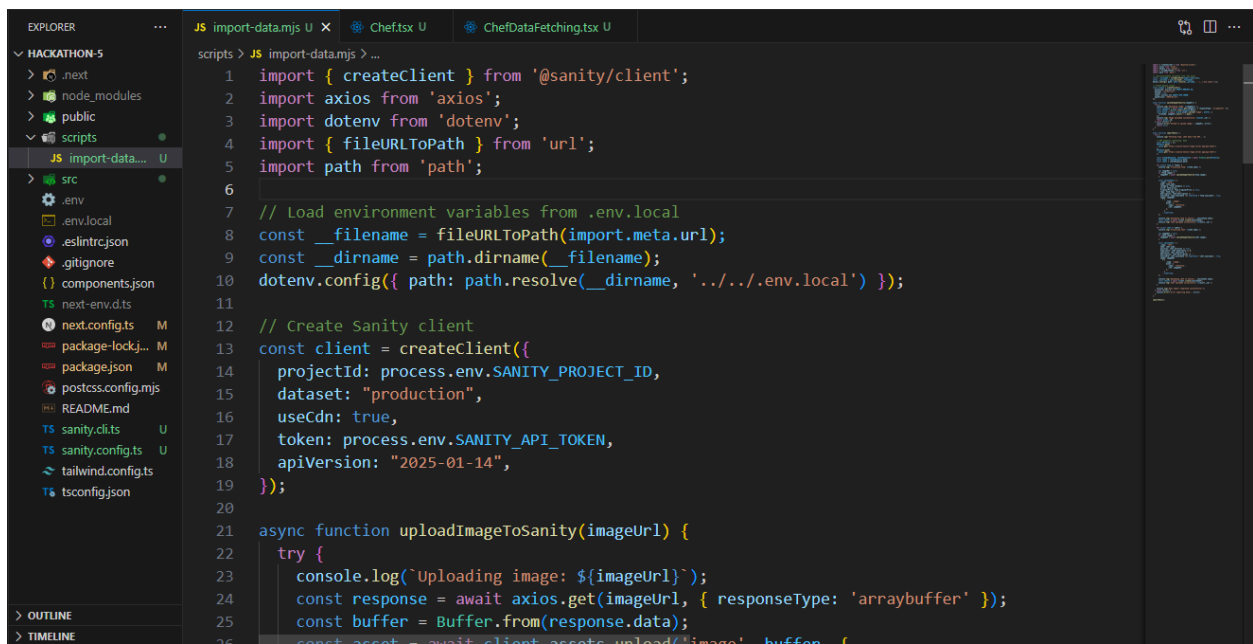
Axios

Dotenv

Sanity Features:

- Hotspot and crop options for images.
- Create OR Replace method for seamless updates.

API Integration Migration Script Image:



```
1  import { createClient } from '@sanity/client';
2  import axios from 'axios';
3  import dotenv from 'dotenv';
4  import { fileURLToPath } from 'url';
5  import path from 'path';
6
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.SANITY_PROJECT_ID,
15    dataset: "production",
16    useCdn: true,
17    token: process.env.SANITY_API_TOKEN,
18    apiVersion: "2025-01-14",
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, {
```

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Foods API Call:

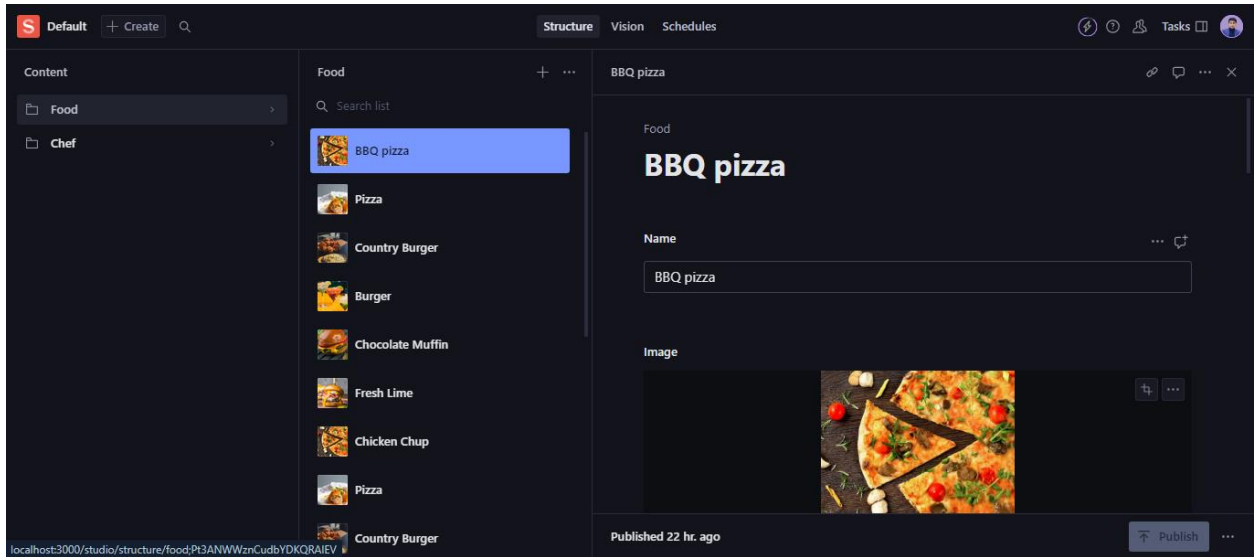
```
[
  {
    "name": "Fresh Lime",
    "category": "Drink",
    "price": 38,
    "originalPrice": 45,
    "tags": [
      "Healthy",
      "Popular"
    ],
    "image": "https://sanity-nextjs-rouge.vercel.app/food/food-1.png",
    "description": "Refreshing fresh lime drink made with natural ingredients.",
    "available": true
  },
  {
    "name": "Chocolate Muffin",
    "category": "Dessert",
    "price": 28,
    "originalPrice": 30,
    "tags": [
      "Sell",
      "Sweet"
    ],
    "image": "https://sanity-nextjs-rouge.vercel.app/food/food-2.png",
    "description": "Soft and rich chocolate muffin topped with chocolate chips.",
    "available": true
  },
  {
    "name": "Burger",
    "category": "Sandwich",
    "price": 21,
```

Chefs API Call:

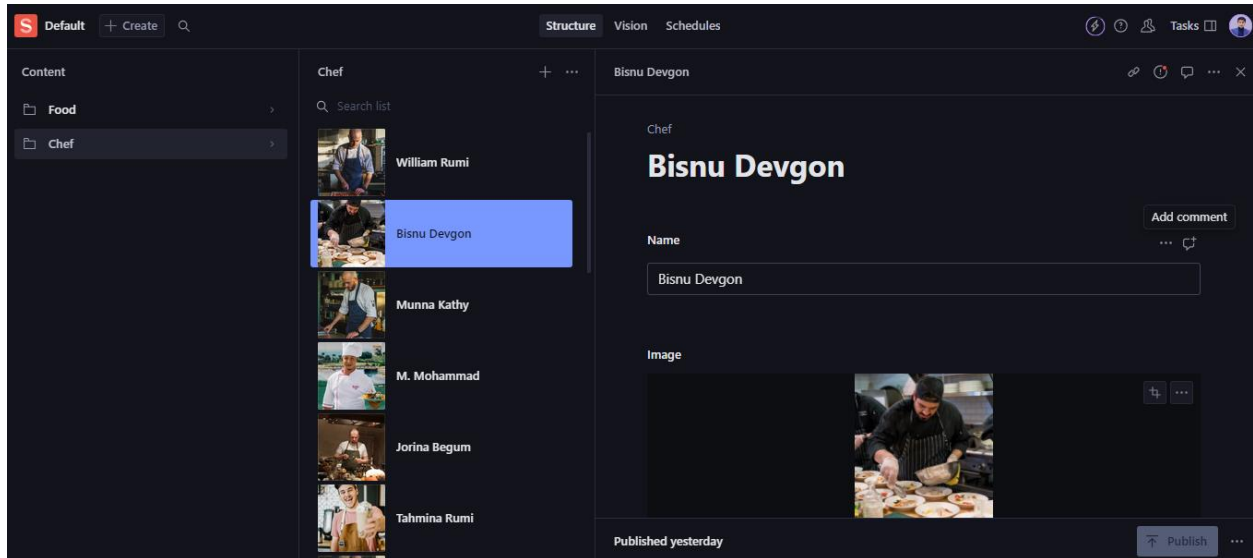
```
[
  {
    "name": "Tahmina Rumi",
    "position": "Head Chef",
    "experience": 12,
    "specialty": "Italian Cuisine",
    "image": "https://sanity-nextjs-rouge.vercel.app/chef/chef-1.png",
    "description": "Expert in crafting authentic Italian dishes and pastries.",
    "available": true
  },
  {
    "name": "Jorina Begum",
    "position": "Sous Chef",
    "experience": 8,
    "specialty": "Pastry and Desserts",
    "image": "https://sanity-nextjs-rouge.vercel.app/chef/chef-2.png",
    "description": "Specializes in creative pastries and dessert innovations.",
    "available": true
  },
  {
    "name": "M. Mohammad",
    "position": "Grill Master",
    "experience": 10,
    "specialty": "Grilled Dishes",
    "image": "https://sanity-nextjs-rouge.vercel.app/chef/chef-3.png",
    "description": "Renowned for creating perfectly grilled meats and vegetables.",
    "available": true
  },
  {
    "name": "Munna Kathy",
    "position": "Culinary Instructor",
```

Data Successfully Import On Sanity:

01. Foods Data



02. Chefs Data

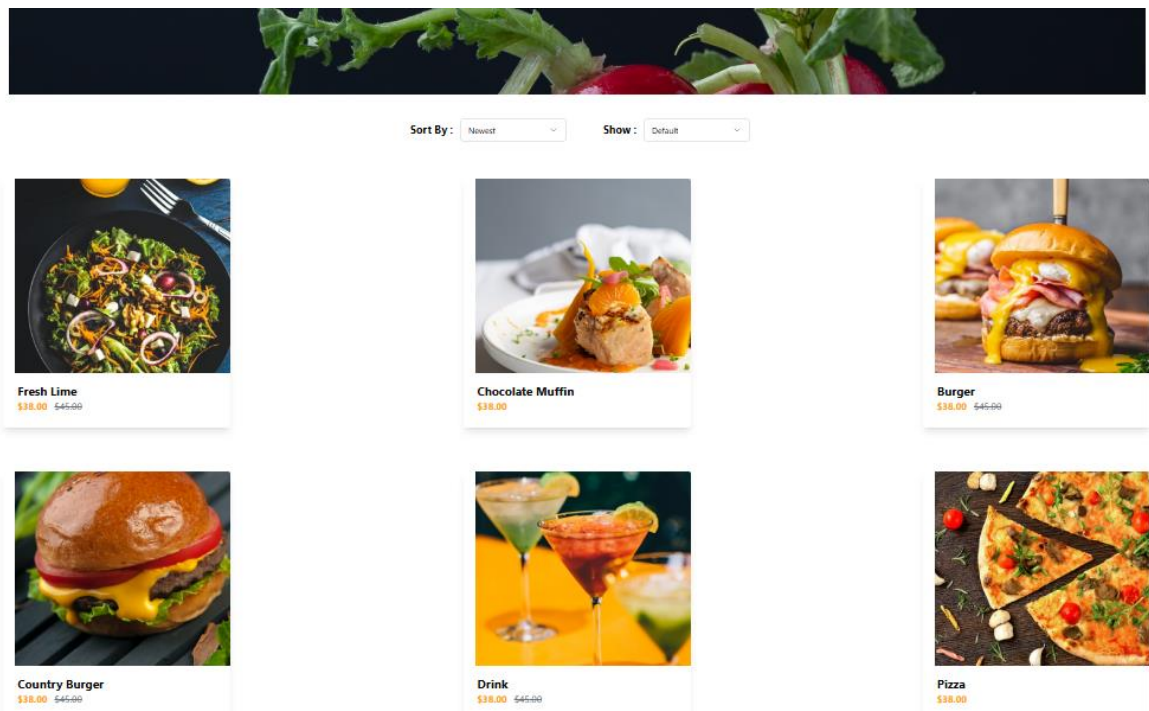


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Display On Frontend:

```
1 import { createClient } from 'next-sanity'
2
3 import { apiVersion, dataset, projectId } from '../env'
4
5 export const client = createClient({
6   projectId,
7   dataset,
8   apiVersion,
9   useCdn: true,
10  token: ''
11 })
12
```

- Foods Data



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- **Chefs Data**

Our Chefs



Chefs
Tahmina Rumi
experience: 12 years



Chefs
Jorina Begum
experience: 8 years



Chefs
Bisnu Devgon
experience: 20 years



Chefs
Jorina Begum
experience: 8 years



Conclusion:

The Day 3 tasks were completed successfully, as follows

The project is now functional, with APIs integrated, data migrated in Sanity, and displayed on the frontend. These skills are essential for handling a complex client project in a professional environment.

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