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

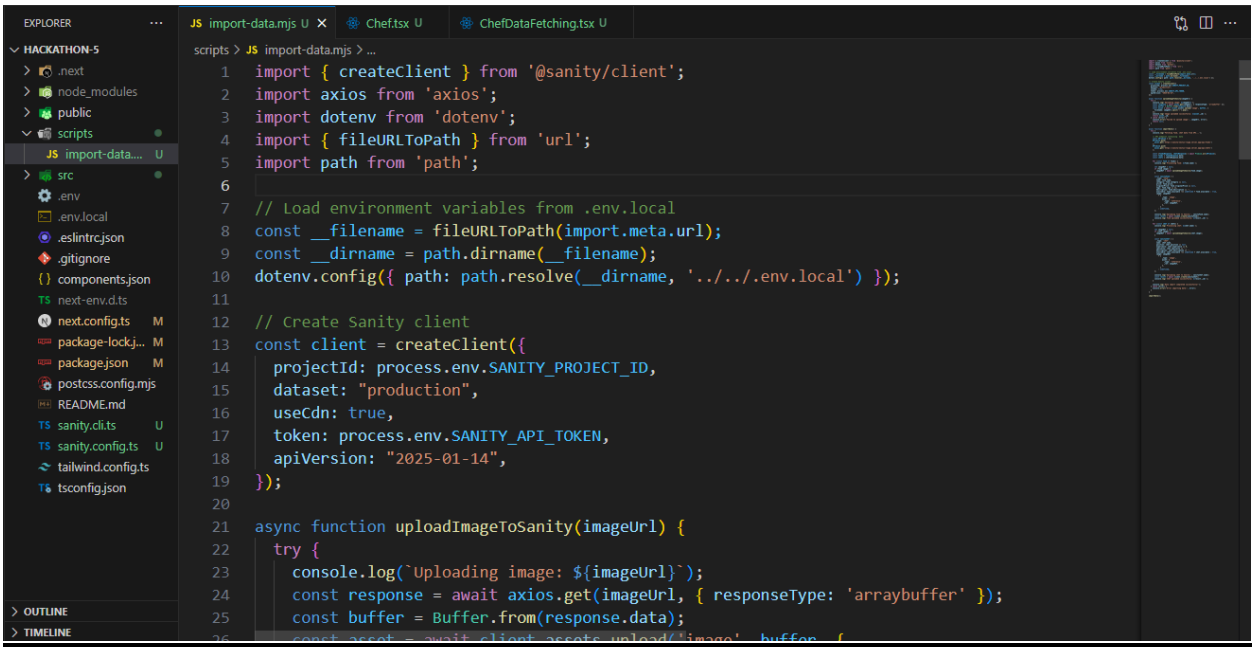
  Axios

  Dotenv

Sanity Features:

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

API Integration Migration Script Image:



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Foods API Call:

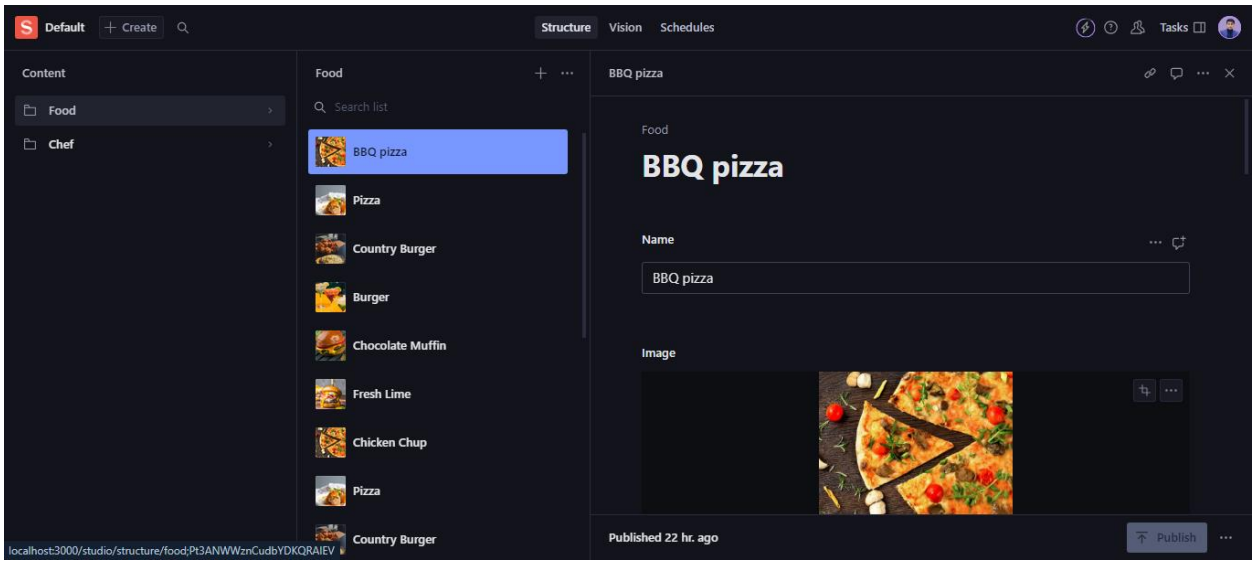

```
[
  {
    "name": "Fresh Lime",
    "category": "Drink",
    "price": 38,
    "originalPrice": 45,
    "tags": [
      "Healthy",
      "Popular"
    ],
    "image": "https://sanity-nextjs-rouge.vercel.app/food/food-1.png",
    "description": "Refreshing fresh lime drink made with natural ingredients.",
    "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:

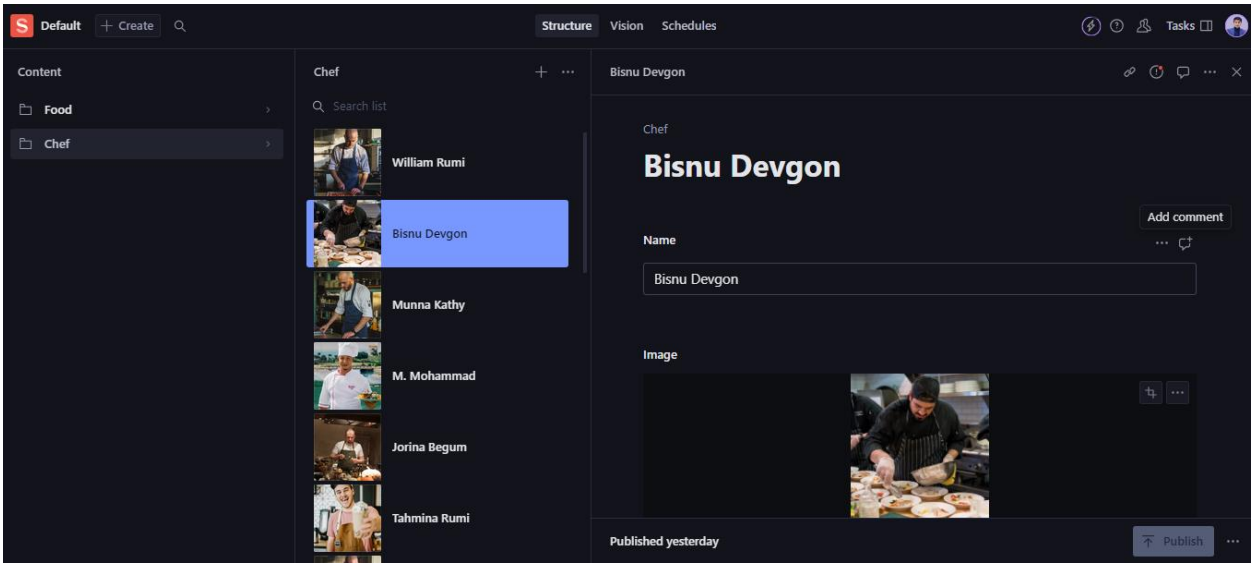

```
[
  {
    "name": "Tahmina Rumi",
    "position": "Head Chef",
    "experience": 12,
    "specialty": "Italian Cuisine",
    "image": "https://sanity-nextjs-rouge.vercel.app/chef/chef-1.png",
    "description": "Expert in crafting authentic Italian dishes and pastries.",
    "available": true
  },
  {
    "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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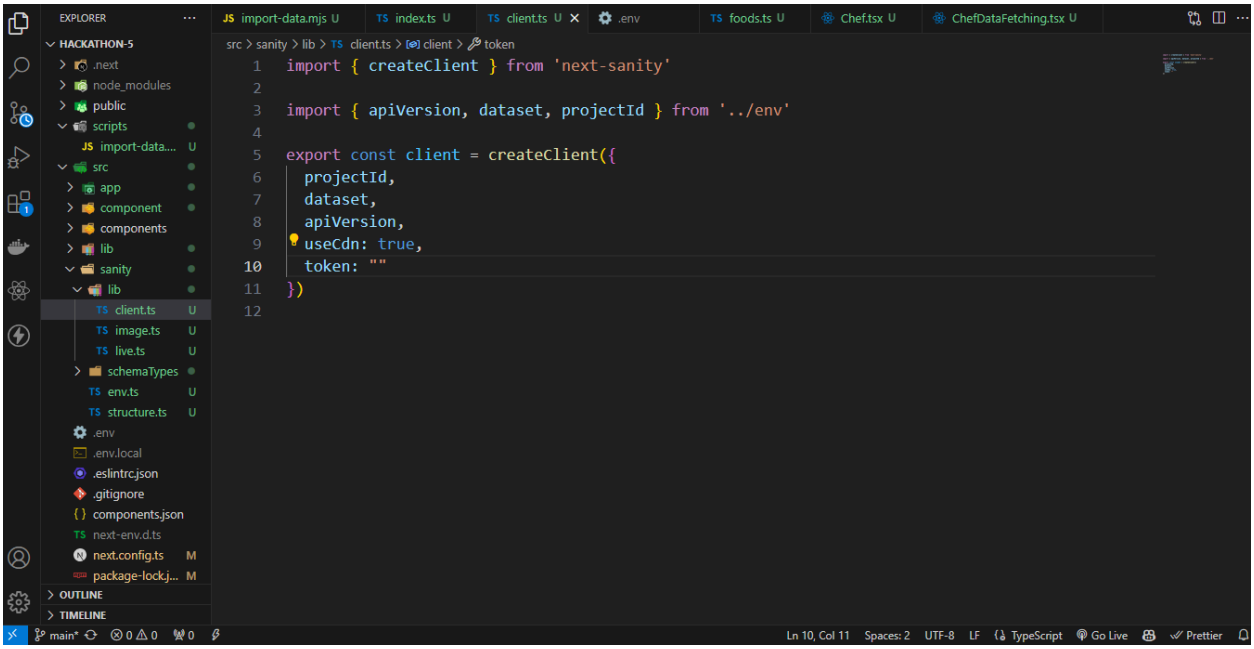
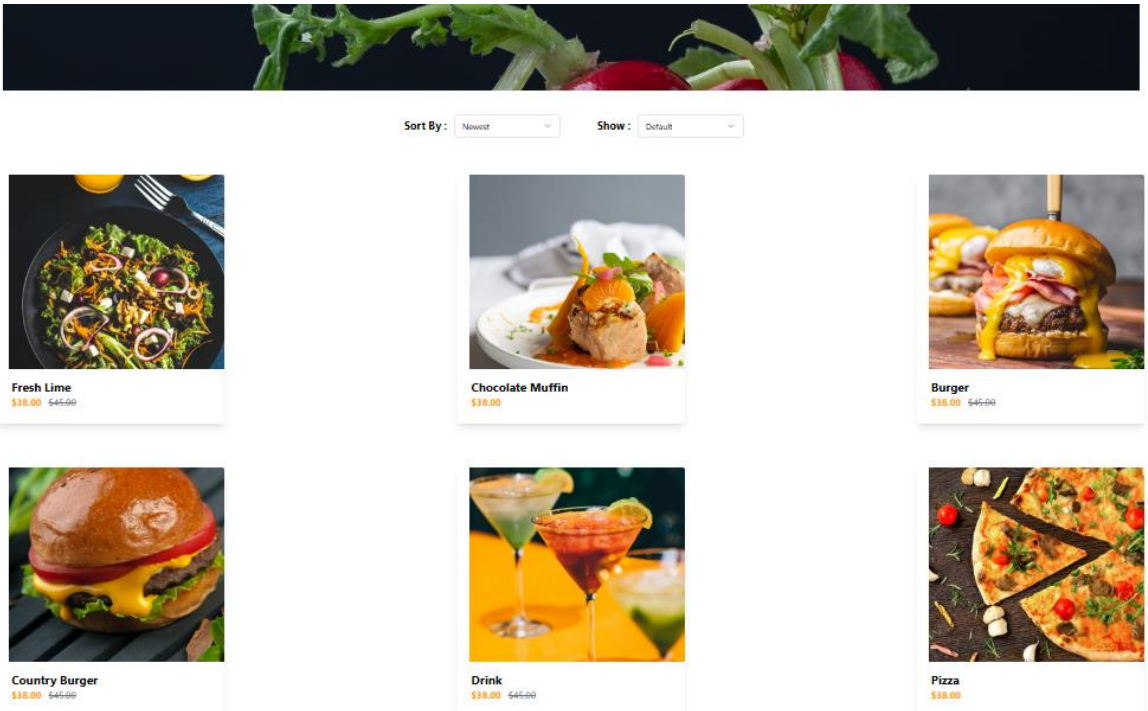
Display On Frontend:



- **Foods Data**



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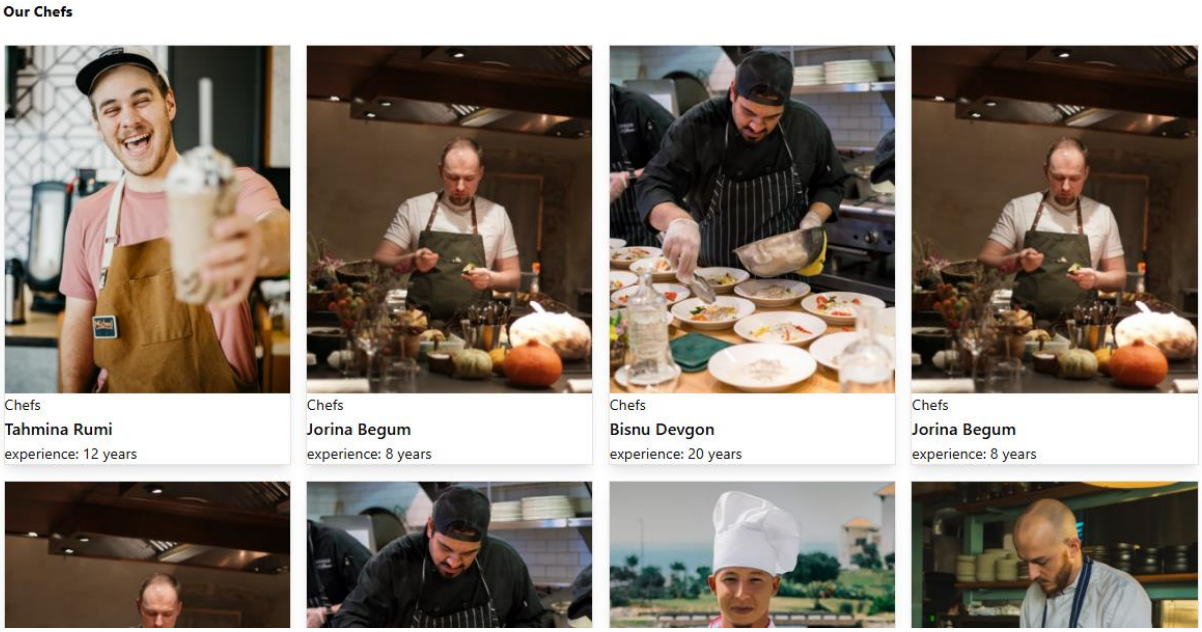
- **Chefs Data**



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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