Day 3

API INTEGRATION REPORT Q-COMMERCE FOODTUCK

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PROCESS OF API INTEGRATION

API Integration Process:

The API integration for the Q-Commerce web application was completed in several steps:

1. Understanding API Documentation:

I thoroughly reviewed the API documentation of the third-party services used for food and chef data.

Focused on identifying the key endpoints required for integration, such as food items, chef details, and real-time updates.

2. Setting Up Environment Variables:

I set up environment variables in .env.local to securely store the necessary API keys and tokens for accessing the API:

```
$ .env.local
$ .env.local

1    NEXT_PUBLIC_SANITY_PROJECT_ID="03x8jbjz"

2    NEXT_PUBLIC_SANITY_DATASET="production"

3    NEXT_PUBLIC_SANITY_API_TOKEN="skcZ6viaJmIX8079B0Zp6Z9fBYdV043XJnH6nErlb2fFdQ4FHRdD0hXptrviwPPL61FeedbFiYq1a
4
```

3. Endpoint Integration:

I integrated various endpoints to fetch food item data and chef details.

Added error handling and response validation to ensure the integration is reliable and consistent.

1: Adjustments Made to Schemas

I updated the food schema to accommodate additional fields such as price, ingredients, and availability, ensuring it aligns with the API responses:

FOOD SCHEMA

```
TS foods.ts
           ×
src > sanity > schemaTypes > TS foods.ts > [∅] default
       export default {
           name: 'food',
           type: 'document',
           title: 'Food',
           fields: [
               name: 'name',
               type: 'string',
              title: 'Food Name',
              name: 'category',
               type: 'string',
              title: 'Category',
               description:
                 'Category of the food item (e.g., Burger, Sandwich, Drink, etc.)',
               name: 'price',
               type: 'number',
              title: 'Current Price',
               name: 'originalPrice',
              type: 'number',
               title: 'Original Price',
               description: 'Price before discount (if any)',
               name: 'tags',
               type: 'array',
               title: 'Tags',
```

```
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TS foods.ts
           ×
src > sanity > schemaTypes > TS foods.ts > [∅] default
       export default {
           fields: [
               name: 'tags',
               type: 'array',
               title: 'Tags',
               of: [{ type: 'string' }],
               options: {
                layout: 'tags',
               description: 'Tags for categorization (e.g., Best Seller, Popular, New)',
               name: 'image',
               type: 'image',
               title: 'Food Image',
               options: {
                hotspot: true,
               name: 'description',
               type: 'text',
               title: 'Description',
               description: 'Short description of the food item',
               name: 'available',
               type: 'boolean',
               title: 'Available',
               description: 'Availability status of the food item',
```

I also modified the chef schema, adding fields for expertise and experience to enrich the chef data:

```
TS chefs.ts
           ×
src > sanity > schemaTypes > TS chefs.ts > [●] default
       export default {
           name: 'chef',
           type: 'document',
           title: 'Chef',
           fields: [
               name: 'name',
               type: 'string',
               title: 'Chef Name',
               name: 'position',
              type: 'string',
              title: 'Position',
              description: 'Role or title of the chef (e.g., Head Chef, Sous Chef)',
               name: 'experience',
               type: 'number',
               title: 'Years of Experience',
               description: 'Number of years the chef has worked in the culinary field',
               name: 'specialty',
               type: 'string',
title: 'Specialty',
               description: 'Specialization of the chef (e.g., Italian Cuisine, Pastry)',
               name: 'image',
               type: 'image',
                title: 'Chef Image',
```

```
chefs.ts
         ×
> sanity > schemaTypes > TS chefs.ts > [∅] default
     export default {
         fields: [
           },
             name: 'image',
             type: 'image',
             title: 'Chef Image',
             options: {
               hotspot: true,
             },
             name: 'description',
             type: 'text',
10
             title: 'Description',
             description: 'Short bio or introduction about the chef',
           },
             name: 'available',
             type: 'boolean',
             title: 'Currently Active',
             description: 'Availability status of the chef',
         ],
       };
```

Migration Steps and Tools Used

1. Tools Utilized:

I used @sanity/client to migrate the data from the API into the Sanity CMS.

2. Migration Steps:

I fetched food and chef data from the external API.

Transformed the API data to fit the updated Sanity schemas.

Uploaded the transformed data to Sanity using the following migration script.

```
TS queries.ts X
     src > sanity > lib > TS queries.ts > [❷] allfoods
             import { defineQuery } from "next-sanity";
             export const allchefs = defineQuery()
                 *[_type == "chef"] {
                 id,
                 name,
М
                 position,
                 experience,
                 specialty,
                 "imageUrl": image.asset->url
                 export const allfoods = defineQuery(`
                      *[_type == "food"] {
                      id,
                      name,
                     category,
                      price,
                     original price,
       20
                      tags,
                      "imageUrl": image.asset->url
```

```
TS fetch.ts X

src > sanity > lib > TS fetch.ts > ② sanityFetch

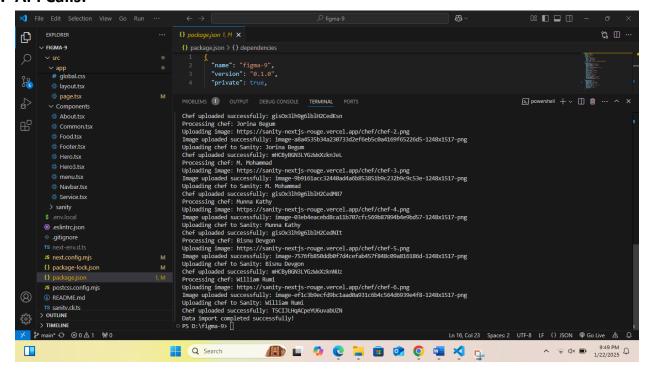
import { createClient } from "next-sanity";

const client = createClient({
    projectId : "03x8jbjz",
    dataset : "production",
    useCdn : true,
    apiVersion : "2023-10-10"

})

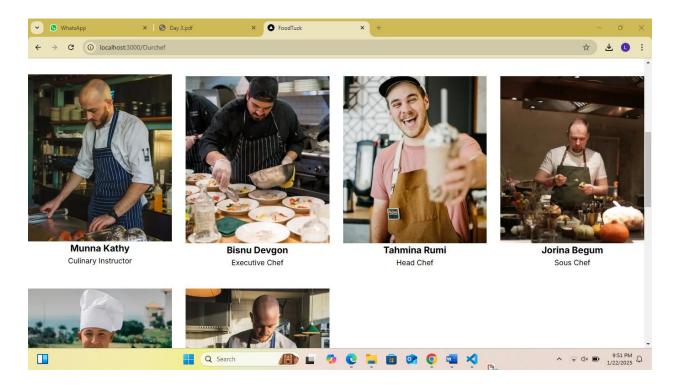
export async function sanityFetch({query, params = {}}: {query : string , params?: any}){
    return await client.fetch(query, params)
}
```

1. API Calls:

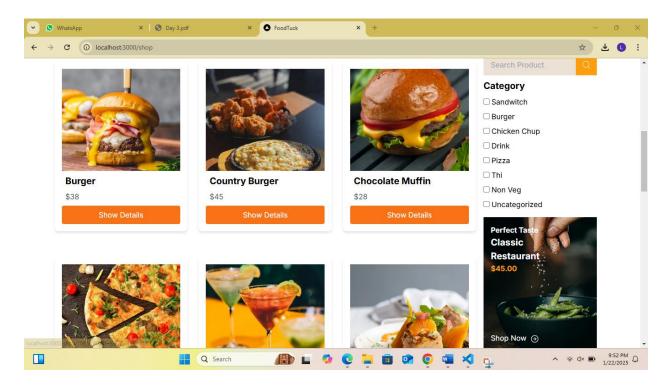


2. Data Displayed on Frontend:

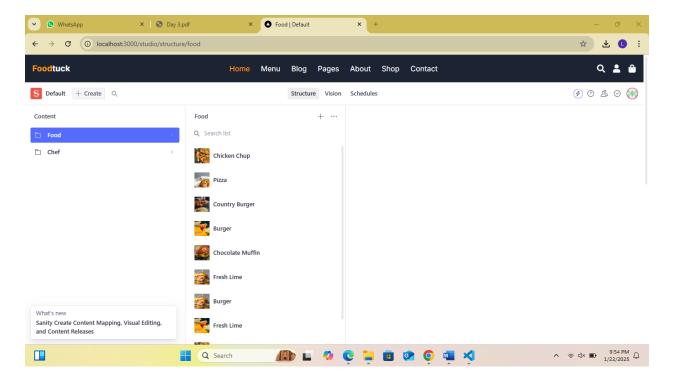
CHEF



FOOD



3. Populated Sanity CMS Fields:



This report outlines the steps I took to integrate APIs into the Q-commerce website, update schemas, and migrate the data into Sanity CMS. Let me know if you need any additional details!