Day 3 - API Integration Report –

AS foods

API Integration Process

1. Overview: The integration connects an external API providing foods and chefs data to a Sanity CMS project.

2. Steps Taken:

o Environment Setup:

▪ Used dotenv to load environment variables from .env.local.

▪ Key variables included:

▪ NEXT_PUBLIC_SANITY_PROJECT_ID

▪ NEXT_PUBLIC_SANITY_DATASET

▪ SANITY_TOKEN

o Sanity Client Creation:

▪ Used @sanity/client to establish a connection to the Sanity project.

▪ Configured the client with the project ID, dataset, API version, and authentication token.

o Data Fetching:

▪ Made concurrent API calls using axios to fetch food and chef data.

▪ Endpoints accessed:

▪ https://sanity-nextjs-rouge.vercel.app/api/foods

▪ https://sanity-nextjs-rouge.vercel.app/api/chefs

o Data Processing:

▪ Iterated through the fetched data.

▪ Uploaded images to Sanity's asset library using the

▪ client.assets.upload( ) method.

o Sanity Document Creation:

▪ Transformed fetched data into Sanity-compatible document structures.

▪ Uploaded each document using client.create( ).

3. Error Handling:

o Implemented try-catch blocks for API calls and Sanity operations.

o Logged errors for debugging.

Adjustments Made to Schemas:

1. Chef Schema:

o Added the following fields:

▪ Position: String field to specify the chef's role.

▪ Experience: Number field for years of experience.

▪ Specialty: String field for culinary specialization.

▪ Available: Boolean field for availability status.

By Ghaniya Khan

o Enabled hotspot option for the image field to allow flexible cropping.

2. Food Schema:

o Key fields included:

▪ Category: String field for classification (e.g., Burgers, Drinks).

▪ Price: Number field for current price.

▪ Original Price: Optional number field for discounted price.

▪ Tags: Array field with a tag layout for categorization.

▪ Available: Boolean field for stock status.

o Enabled hotspot for the image field to support adaptable displays.

Migration Steps and Tools Used

1. Migration Steps:

o Preparation:

▪ Analyzed API data structure and matched it with existing Sanity schemas.

▪ Created Sanity schemas for food and chef with necessary fields.

o Data Import Script:

▪ Built import-data.mjs script to automate data fetching, processing, and uploading.

▪ Utilized axios for API interaction and @sanity/client for CMS operations.

o Image Handling:

▪ Downloaded images using axios with responseType: 'arraybuffer'.

▪ Uploaded images to Sanity, storing asset references in document fields.

o Document Creation:

▪ Mapped API data fields to Sanity schema fields.

▪ Ensured fallback values for optional or missing fields.

2. Tools Used:

o Node.js Modules:

▪ axios for HTTP requests.

▪ dotenv for environment variable management.

▪ @sanity/client for CMS interactions.

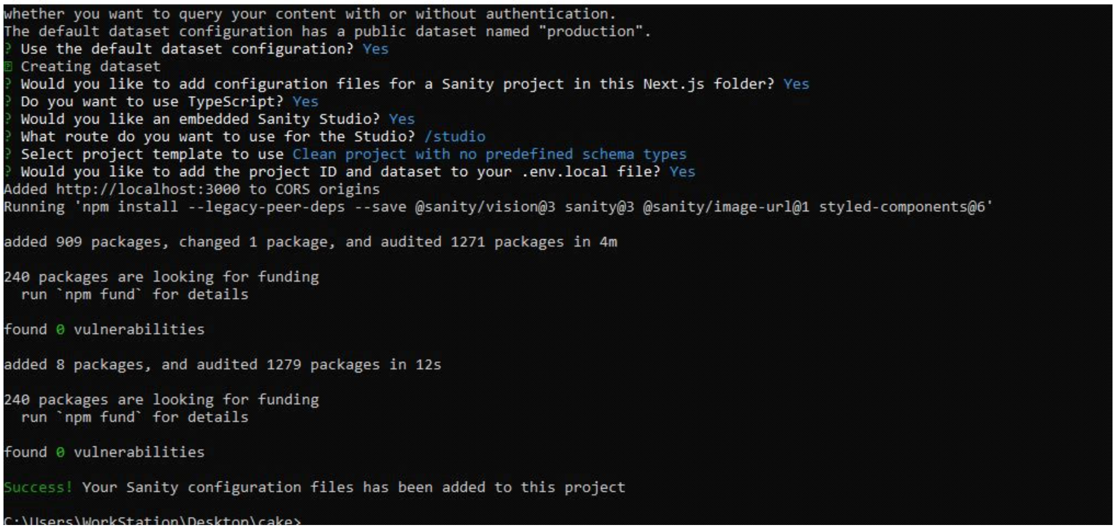
o Sanity Features:

▪ Asset management for image uploads.

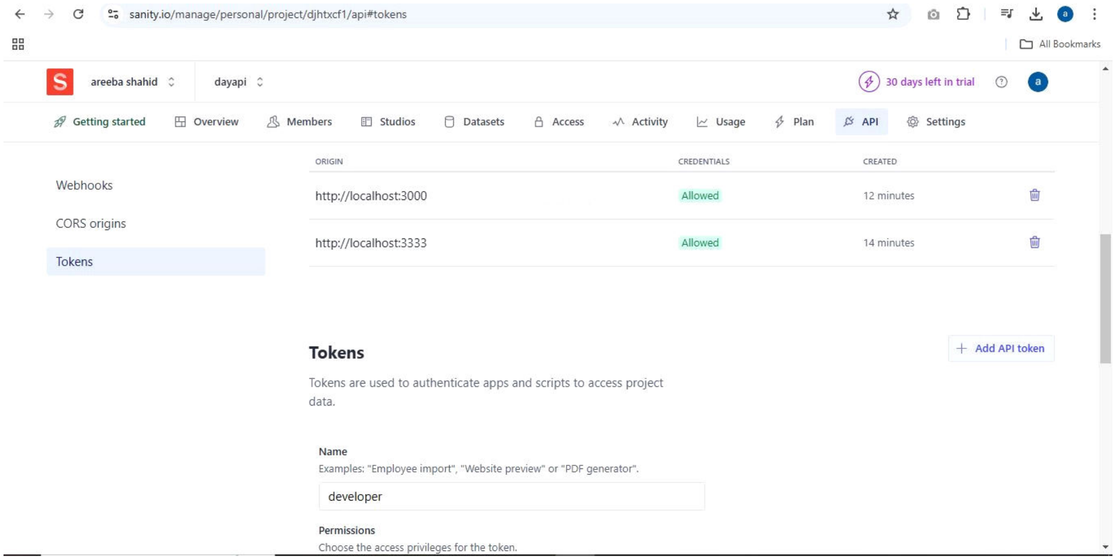
▪ API versioning for consistent schema support.

o Utilities:

▪ fileURLToPath and path for resolving file paths



```
whether you want to query your content with or without authentication.
The default dataset configuration has a public dataset named "production".
? Use the default dataset configuration? Yes
✓ Creating dataset
? Would you like to add configuration files for a Sanity project in this Next.js folder? Yes
? Do you want to use TypeScript? Yes
? Would you like an embedded Sanity Studio? Yes
? What route do you want to use for the Studio? /studio
? Select project template to use Clean project with no predefined schema types
? Would you like to add the project ID and dataset to your .env.local file? Yes
Added http://localhost:3000 to CORS origins
Running 'npm install --legacy-peer-deps --save @sanity/vision@3 sanity@3 @sanity/image-url@1 styled-components@6'

added 909 packages, changed 1 package, and audited 1271 packages in 4m

240 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities

added 8 packages, and audited 1279 packages in 12s

240 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities

Success! Your Sanity configuration files has been added to this project

C:\Users\WorkStation\Desktop\cake>
```



| ORIGIN | CREDENTIALS | CREATED |
|---|---|---|
| http://localhost:3000 | Allowed | 12 minutes |
| http://localhost:3333 | Allowed | 14 minutes |

Tokens

Tokens are used to authenticate apps and scripts to access project data.

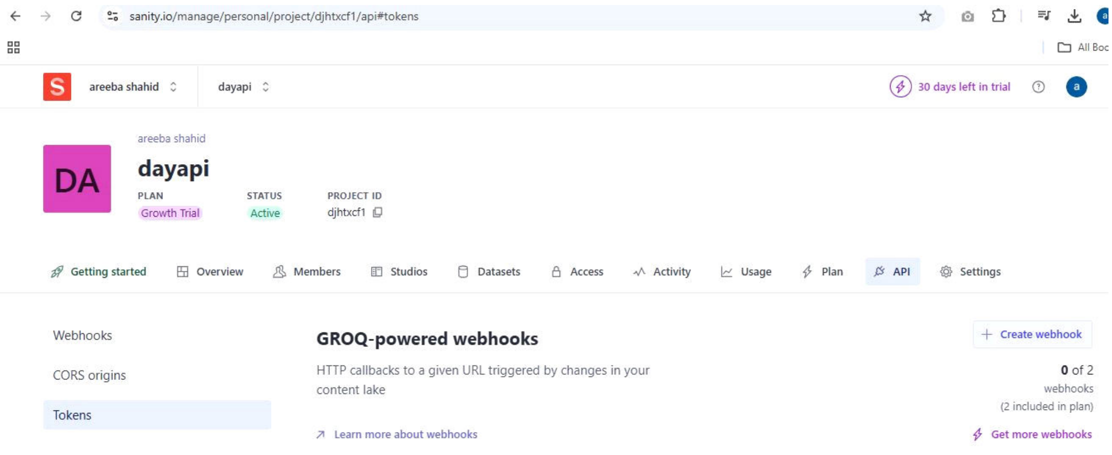
Name

Examples: "Employee import", "Website preview" or "PDF generator".

developer

Permissions

Choose the access privileges for the token.



areeba shahid

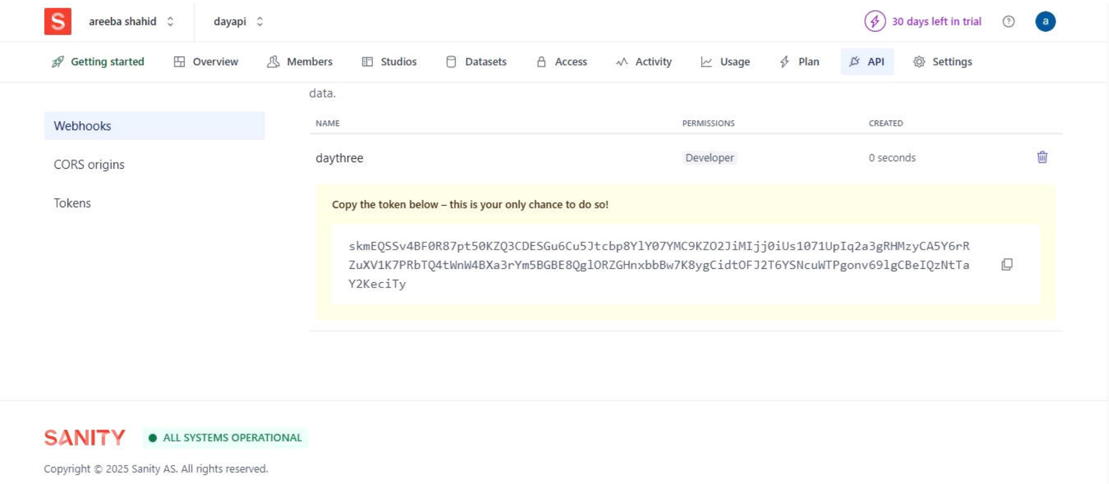
dayapi

PLAN: Growth Trial
STATUS: Active
PROJECT ID: djhtxcf1

GROQ-powered webhooks

HTTP callbacks to a given URL triggered by changes in your content lake

**0** of 2 webhooks (2 included in plan)

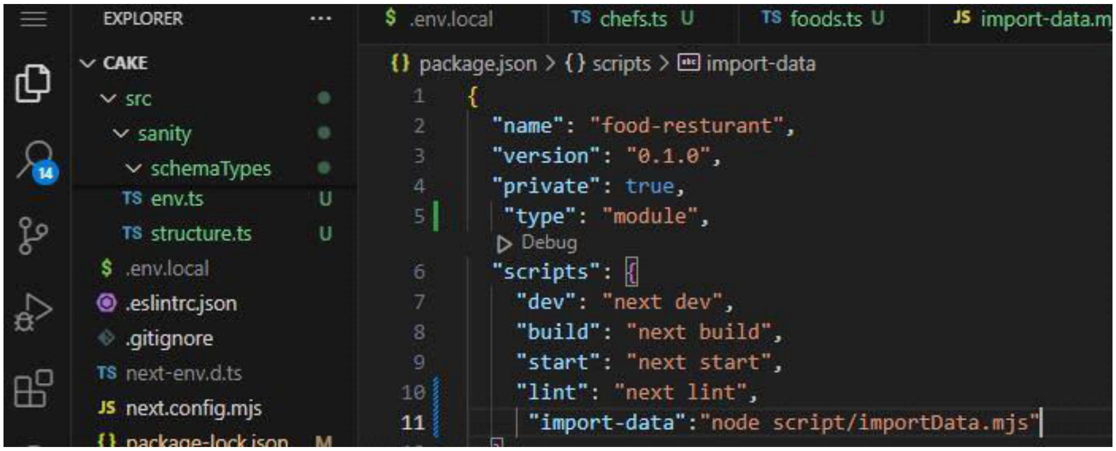


data.

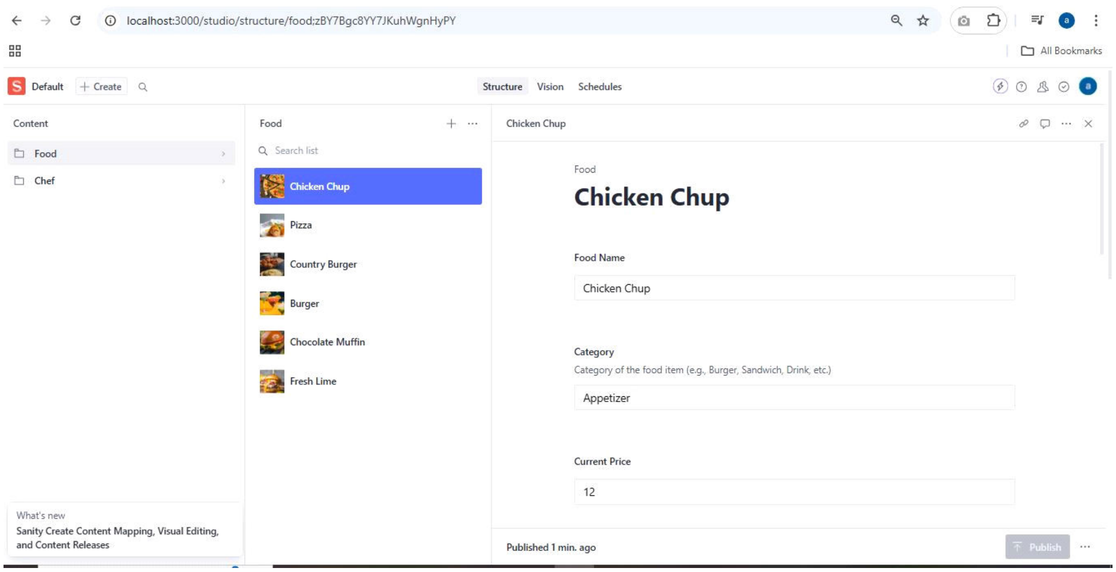
| NAME | PERMISSIONS | CREATED |
|---|---|---|
| daythree | Developer | 0 seconds |

Copy the token below – this is your only chance to do so!

```
skmEQSSv4BF0R87pt50KZQ3CDESGu6Cu5Jtcbp8YlY07YMC9KZO2JiMIjj0iUs1071UpIq2a3gRHMzyCA5Y6rR
ZuXV1K7PRbTQ4tWnW4BXa3rYm5BGBE8QglORZGHnxbbBw7K8ygCidtOFJ2T6YSNcuWTPgonv69lgCBeIQzNtTa
Y2KeciTy
```



```
{
  "name": "food-resturant",
  "version": "0.1.0",
  "private": true,
   "type": "module",
  "scripts": {
    "dev": "next dev",
    "build": "next build",
    "start": "next start",
    "lint": "next lint",
     "import-data":"node script/importData.mjs"
```



localhost:3000/studio/structure/food;zBY7Bgc8YY7JKuhWgnHyPY

Chicken Chup

Food

# Chicken Chup

Food Name

Chicken Chup

Category

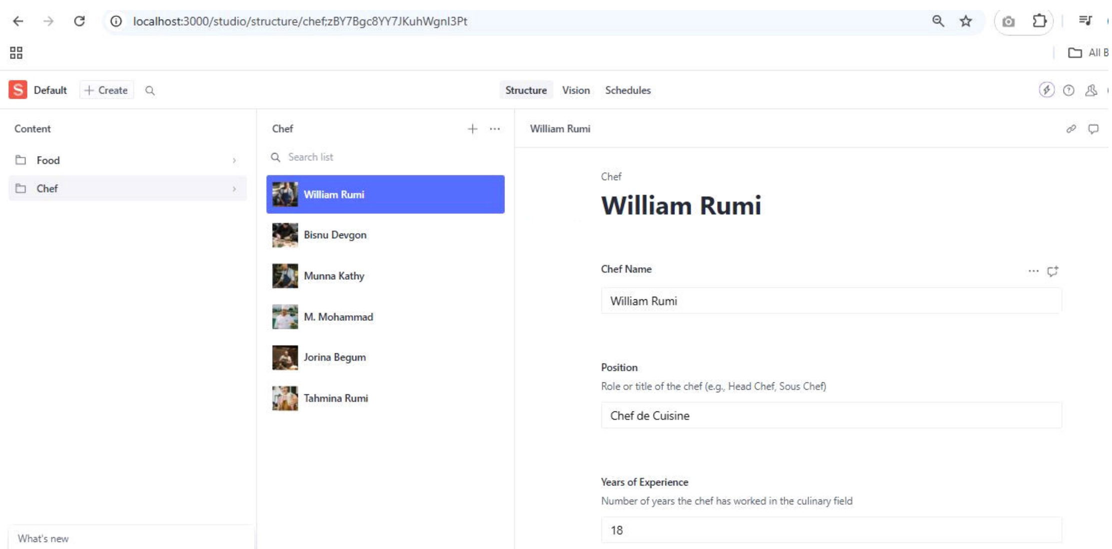
Category of the food item (e.g., Burger, Sandwich, Drink, etc.)

Appetizer

Current Price

12

Published 1 min. ago



localhost:3000/studio/structure/chef;zBY7Bgc8YY7JKuhWgnI3Pt

William Rumi

Chef

# William Rumi

Chef Name

William Rumi

Position

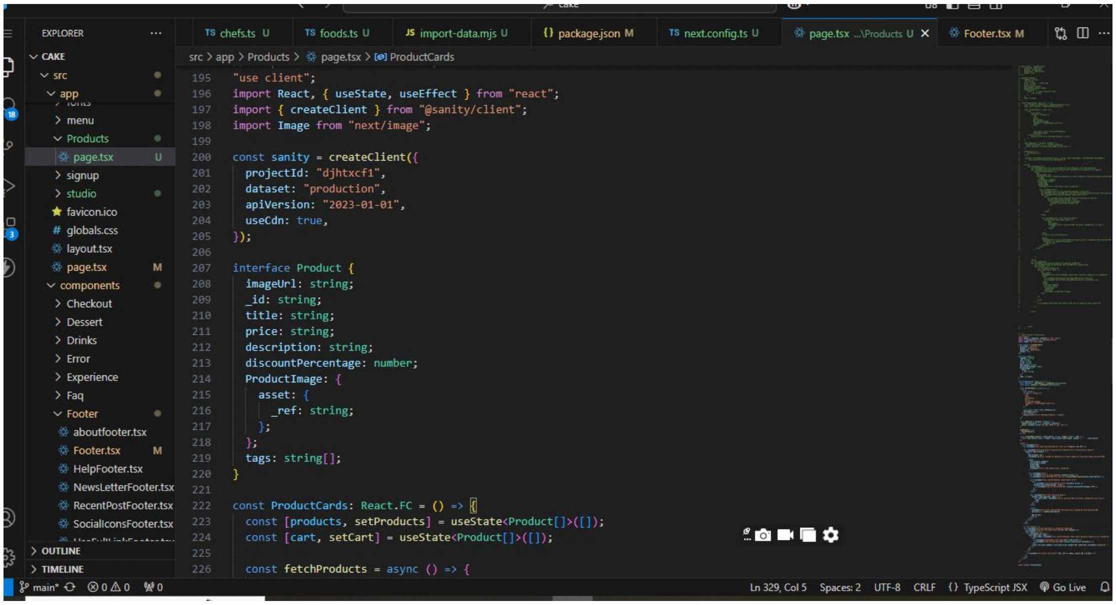
Role or title of the chef (e.g., Head Chef, Sous Chef)

Chef de Cuisine

Years of Experience

Number of years the chef has worked in the culinary field

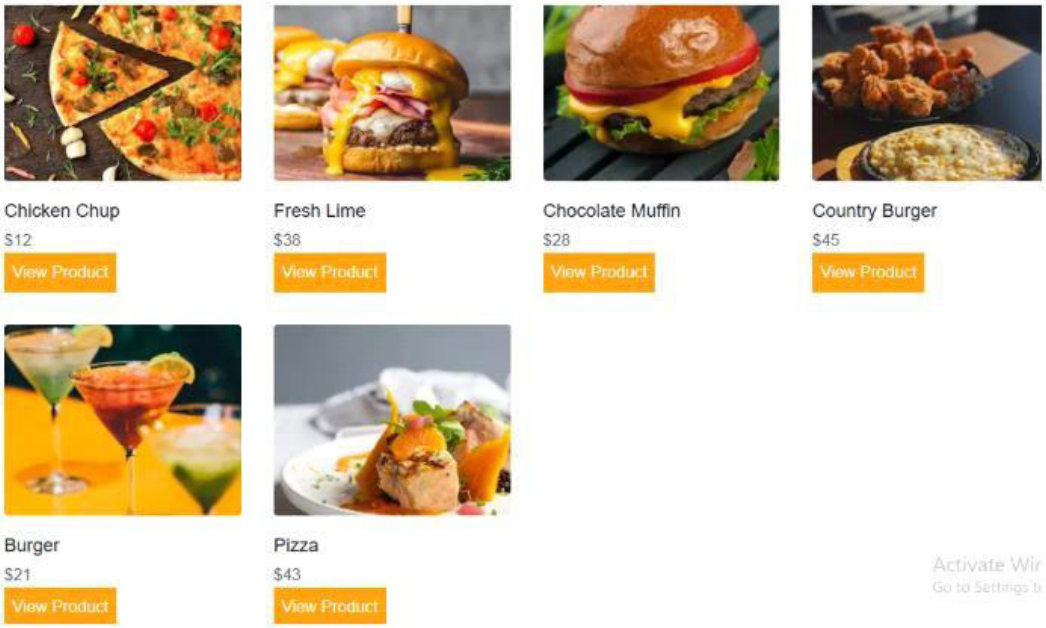
18



```tsx
"use client";
import React, { useState, useEffect } from "react";
import { createClient } from "@sanity/client";
import Image from "next/image";

const sanity = createClient({
  projectId: "djhtxcf1",
  dataset: "production",
  apiVersion: "2023-01-01",
  useCdn: true,
});

interface Product {
  imageUrl: string;
  _id: string;
  title: string;
  price: string;
  description: string;
  discountPercentage: number;
  ProductImage: {
    asset: {
      _ref: string;
    };
  };
  tags: string[];
}

const ProductCards: React.FC = () => {
  const [products, setProducts] = useState<Product[]>([]);
  const [cart, setCart] = useState<Product[]>([]);

  const fetchProducts = async () => {
```

Data successfully displayed in the frontend:

Food data:


Chicken Chup
$12

Fresh Lime
$38

Chocolate Muffin
$28

Country Burger
$45

Burger
$21

Pizza
$43

Chef data:

Tahmina Rumi

Expert in crafting authentic Italian dishes and pastries.

Italian Cuisine

Head Chef

Available

12

M. Mohammad

Renowned for creating perfectly grilled meats and...

Grilled Dishes

Grill Master

Available

10

Bisnu Devgon

Expert in international cuisines and menu planning.

Global Cuisine

Executive Chef

Available

20

William Rumi

Master of crafting exquisite seafood dishes with uniqu...

Seafood Specialties

Chef de Cuisine

Available

18

Jorina Begum

Specializes in creative pastries and dessert innovations.

Pastry and Desserts

Sous Chef

Available

8

Munna Kathy

Pioneer in Asian fusion dishes blending traditional...

Asian Fusion

Culinary Instructor

Available

15