SANIATARIQ

Day 3 - **API Integration**

Q-COMMERCE -

FOODTUCK

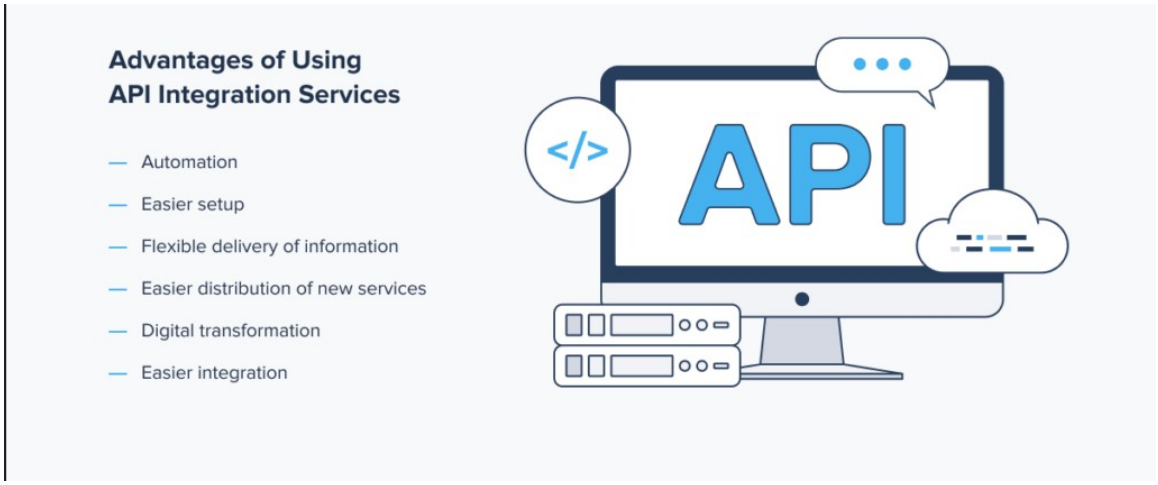
API Integration

API (Application Programming Interface) integration enables different software applications to communicate and share data. It involves connecting an application to an external service or multiple systems to perform specific tasks, such as retrieving, sending, or processing information.

Data Migration

Data migration refers to the process of

transferring data from one system, format, or storage medium to another. It is a critical activity during system upgrades, mergers, or transitioning to modern technologies like cloud platforms.



Error Handling in API Integration

Error handling is a critical part of API integration, ensuring that the system remains

reliable and provides a smooth user experience even when issues occur. Effective error handling involves anticipating potential failures, such as network issues, invalid requests, or API rate limits, and implementing strategies to address them gracefully.

Key techniques include:

Logging Errors: Capturing detailed logs for debugging.

Retry Mechanisms: Retrying failed requests with exponential backoff.

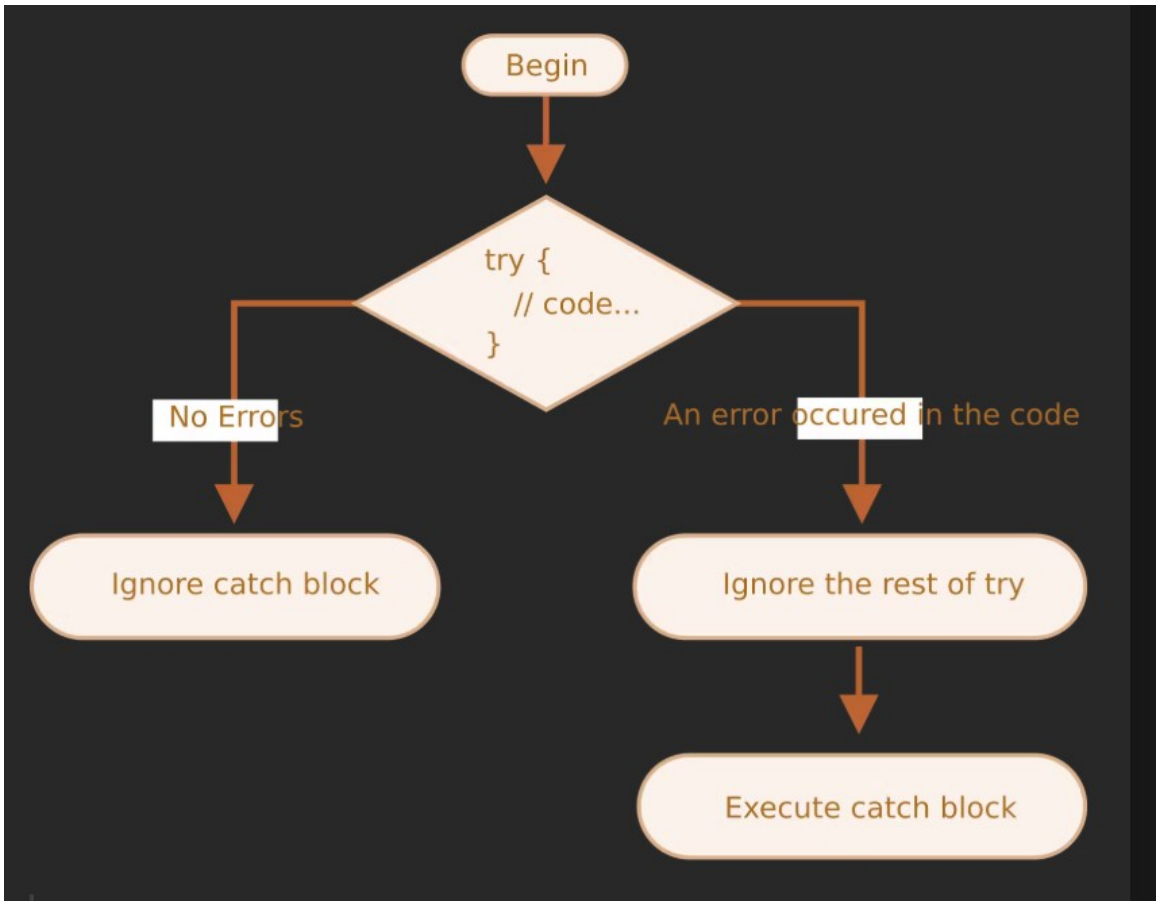
Graceful Fallbacks: Providing alternative actions or messages when an error occurs.

User-Friendly Messages: Displaying clear and actionable error messages to users.

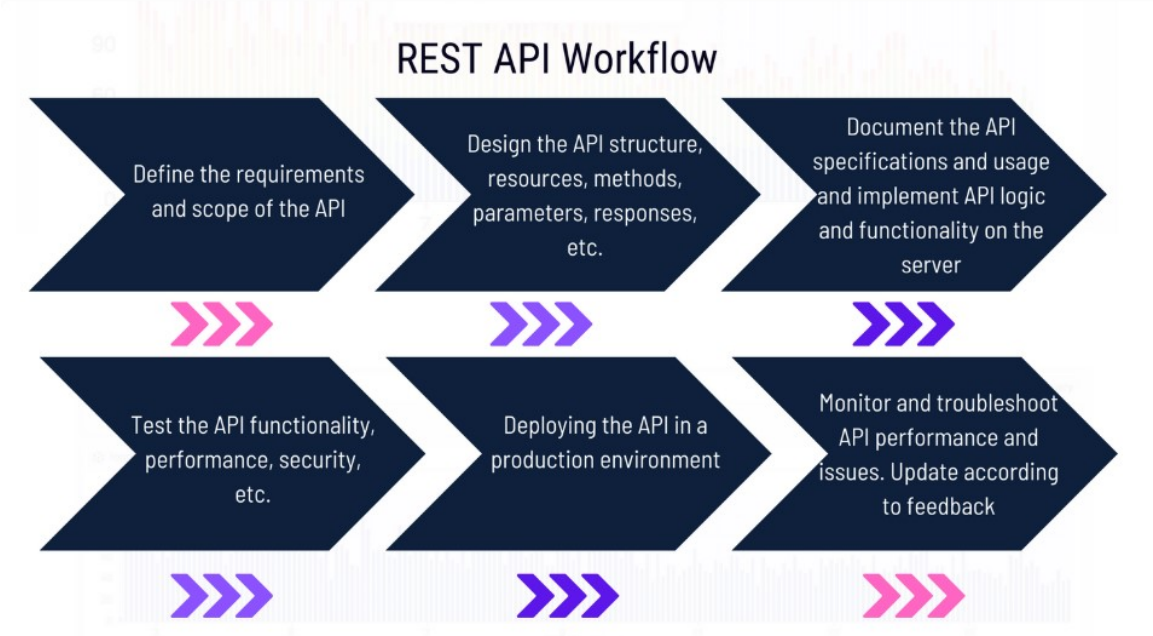
Monitoring and Alerts: Continuously monitoring API performance and setting alerts for critical issues.

Proper error handling ensures system resilience

and improves overall reliability.



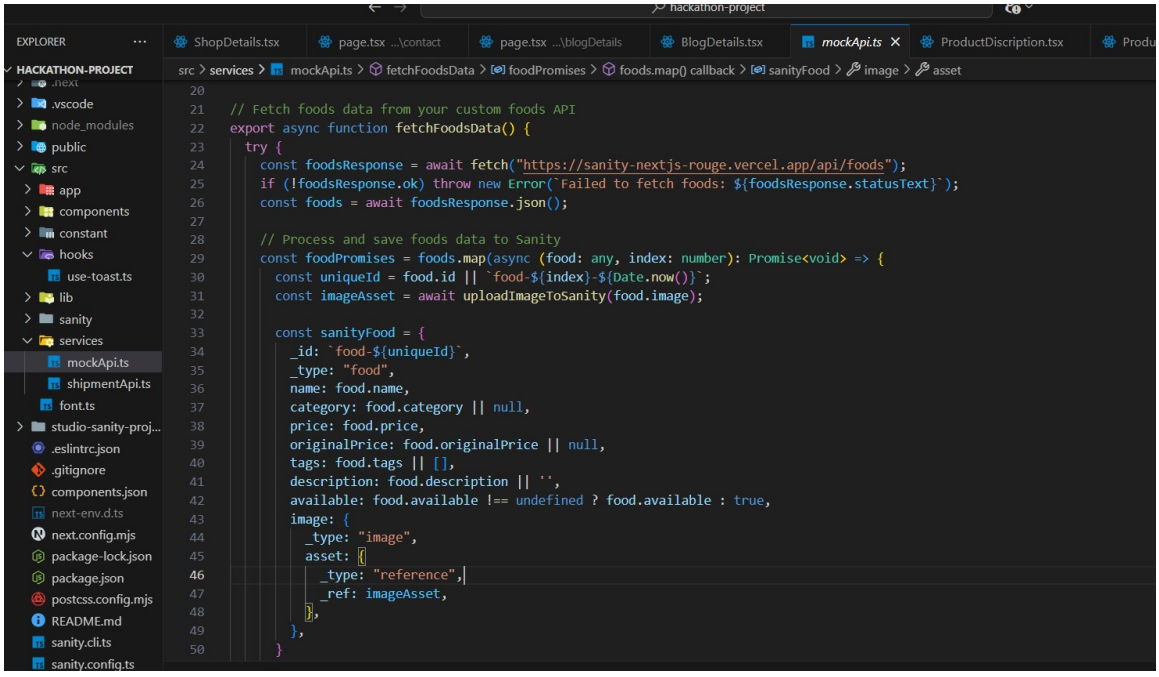
API WORK FLOW



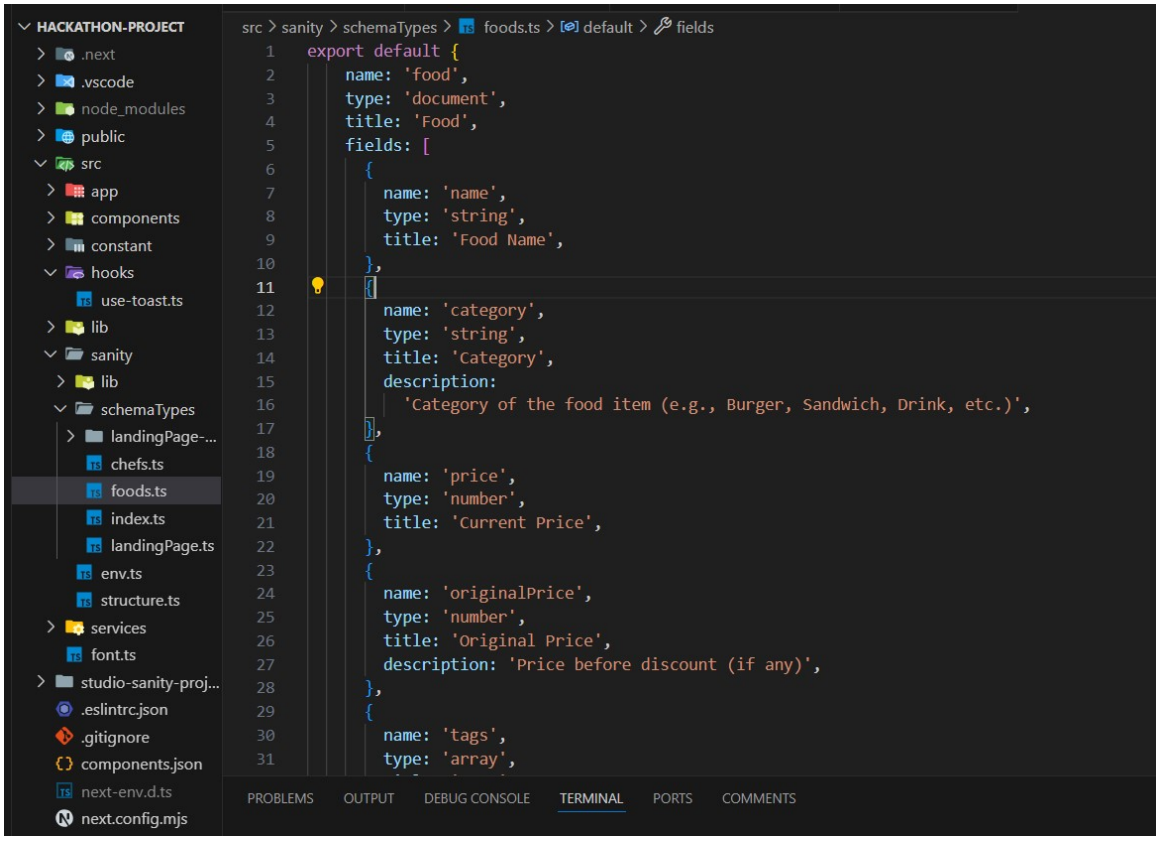
Evaluating the Effectiveness of Your REST API Workflow

Migration steps and tools used

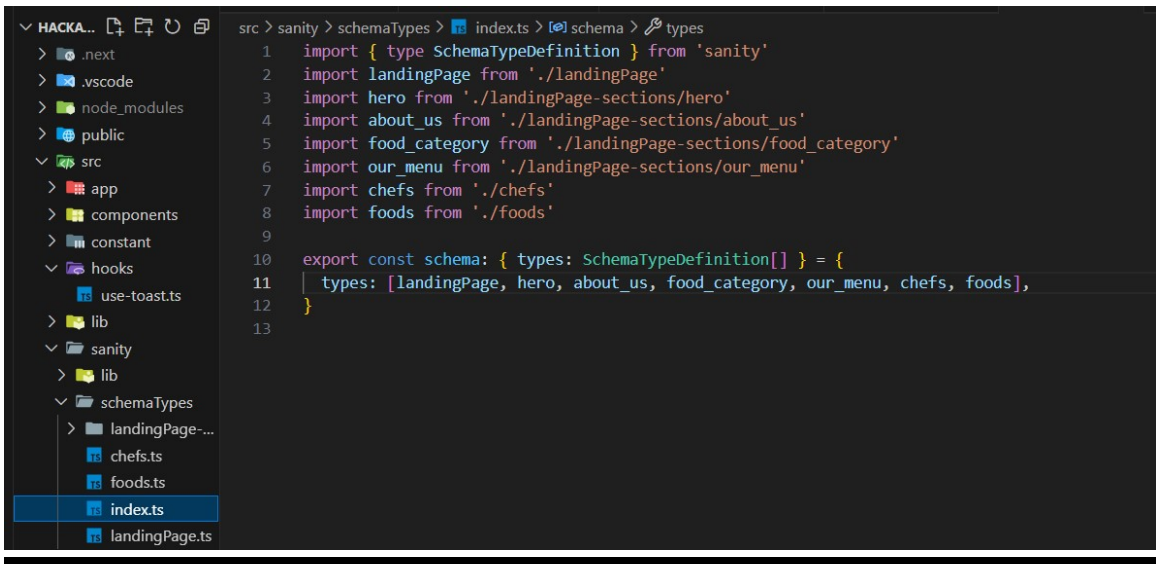
Fetching Data:


hackathon-project
EXPLORER
ShopDetails.tsx
page.tsx ...\contact
page.tsx ...\blogDetails
BlogDetails.tsx
mockApi.ts
ProductDiscription.tsx
HACKATHON-PROJECT
src > services > mockApi.ts > fetchFoodsData > foodPromises > foods.map() callback > sanityFood > image > asset
.vscode
node_modules
public
src
app
components
constant
hooks
use-toast.ts
lib
sanity
services
mockApi.ts
shipmentApi.ts
font.ts
studio-sanity-proj...
.eslintrc.json
.gitignore
components.json
next-env.d.ts
next.config.mjs
package-lock.json
package.json
postcss.config.mjs
README.md
sanity.cli.ts
sanity.config.ts
// Fetch foods data from your custom foods API
export async function fetchFoodsData() {
try {
const foodsResponse = await fetch("https://sanity-nextjs-rouge.vercel.app/api/foods");
if (!foodsResponse.ok) throw new Error(`Failed to fetch foods: ${foodsResponse.statusText}`);
const foods = await foodsResponse.json();
// Process and save foods data to Sanity
const foodPromises = foods.map(async (food: any, index: number): Promise<void> => {
const uniqueId = food.id || `food-${index}-${Date.now()}`;
const imageAsset = await uploadImageToSanity(food.image);
const sanityFood = {
_id: `food-${uniqueId}`,
_type: "food",
name: food.name,
category: food.category || null,
price: food.price,
originalPrice: food.originalPrice || null,
tags: food.tags || [],
description: food.description || '',
available: food.available !== undefined ? food.available : true,
image: {
_type: "image",
asset: {
_type: "reference",
_ref: imageAsset,
},
},
}

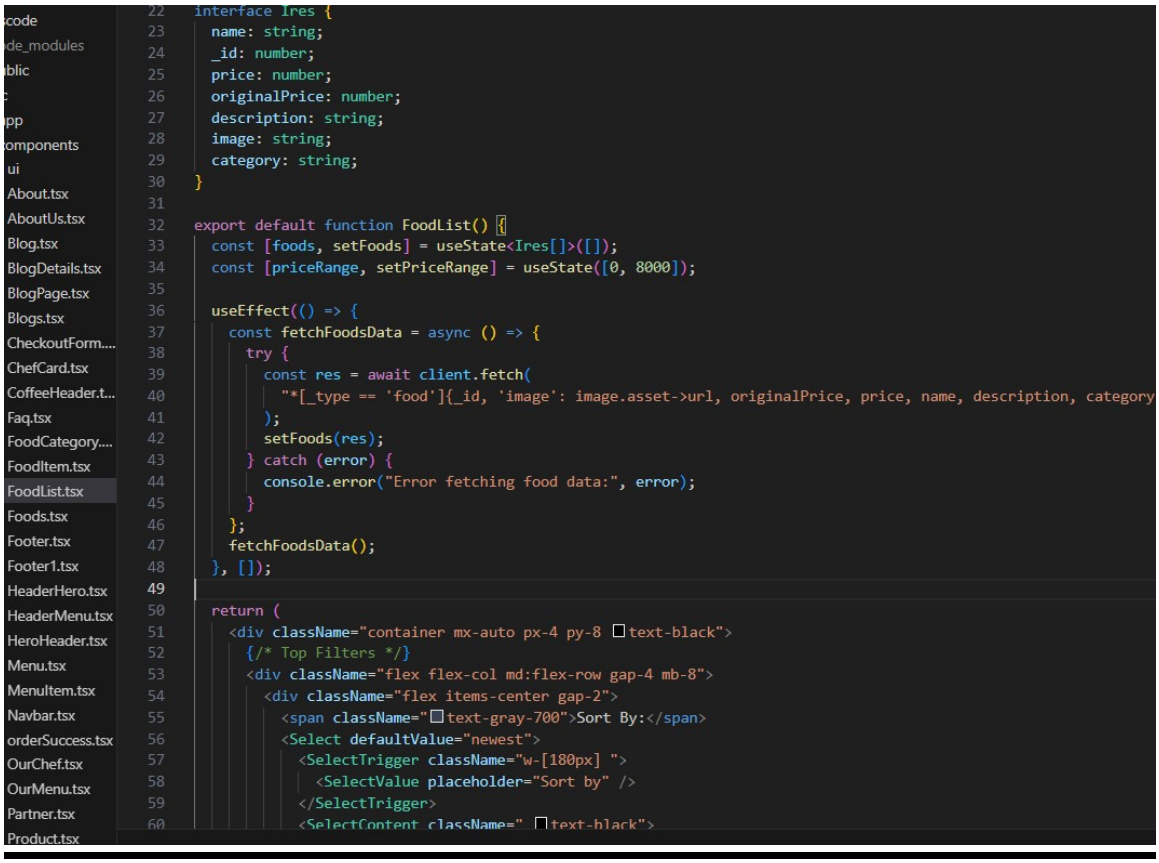
Food Schema:


HACKATHON-PROJECT
.next
.vscode
node_modules
public
src
app
components
constant
hooks
use-toast.ts
lib
sanity
lib
schemaTypes
landingPage-...
chefs.ts
foods.ts
index.ts
landingPage.ts
env.ts
structure.ts
services
font.ts
studio-sanity-proj...
.eslintrc.json
.gitignore
components.json
next-env.d.ts
next.config.mjs
src > sanity > schemaTypes > foods.ts > default > fields
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',
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
COMMENTS

Index.ts

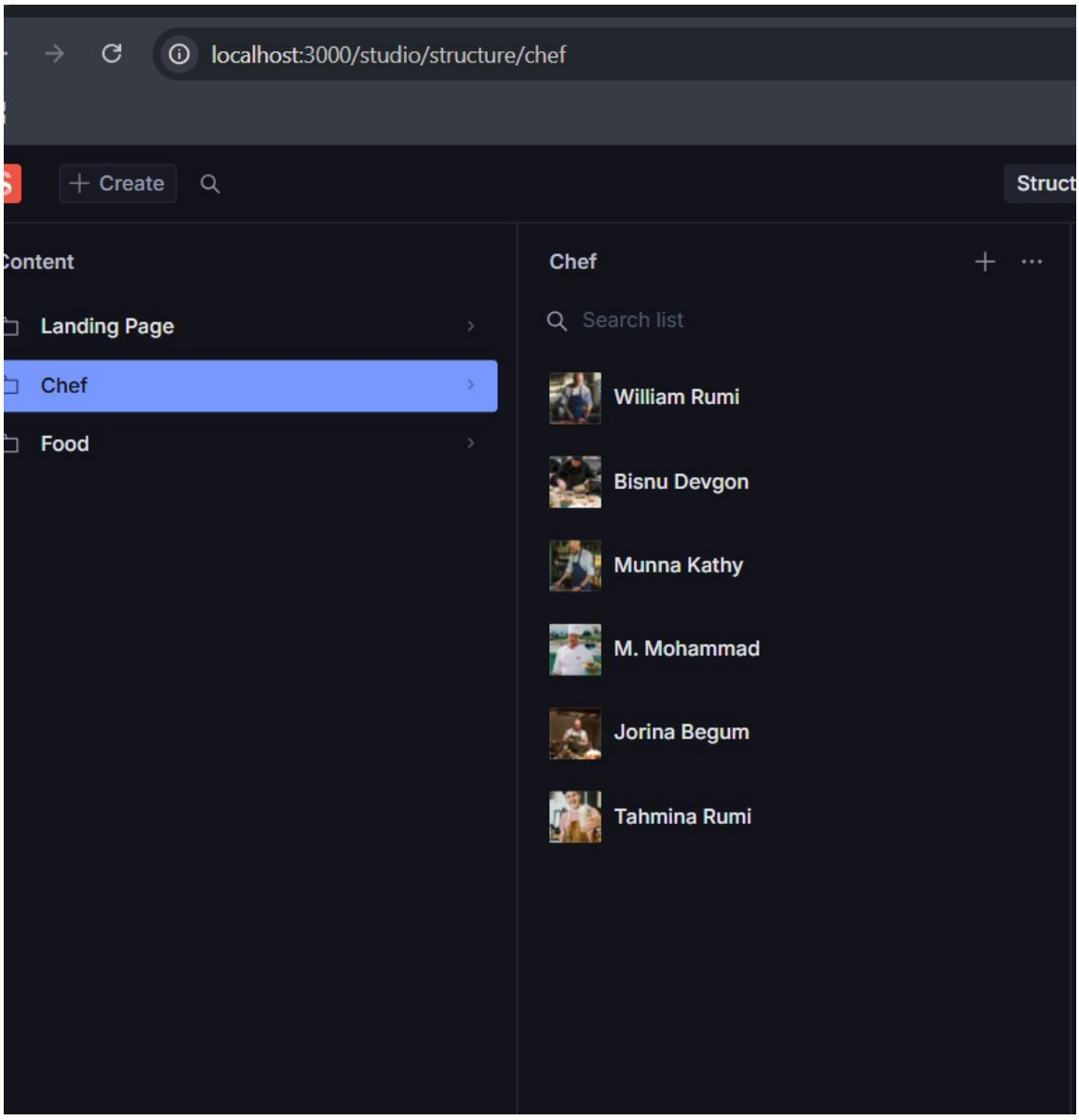

HACKA...
.next
.vscode
node_modules
public
src
app
components
constant
hooks
use-toast.ts
lib
sanity
lib
schemaTypes
landingPage-...
chefs.ts
foods.ts
index.ts
landingPage.ts
src > sanity > schemaTypes > index.ts > schema > types
import { type SchemaTypeDefinition } from 'sanity'
import landingPage from './landingPage'
import hero from './landingPage-sections/hero'
import about_us from './landingPage-sections/about_us'
import food_category from './landingPage-sections/food_category'
import our_menu from './landingPage-sections/our_menu'
import chefs from './chefs'
import foods from './foods'
export const schema: { types: SchemaTypeDefinition[] } = {
types: [landingPage, hero, about_us, food_category, our_menu, chefs, foods],
}

Data Used In My Page

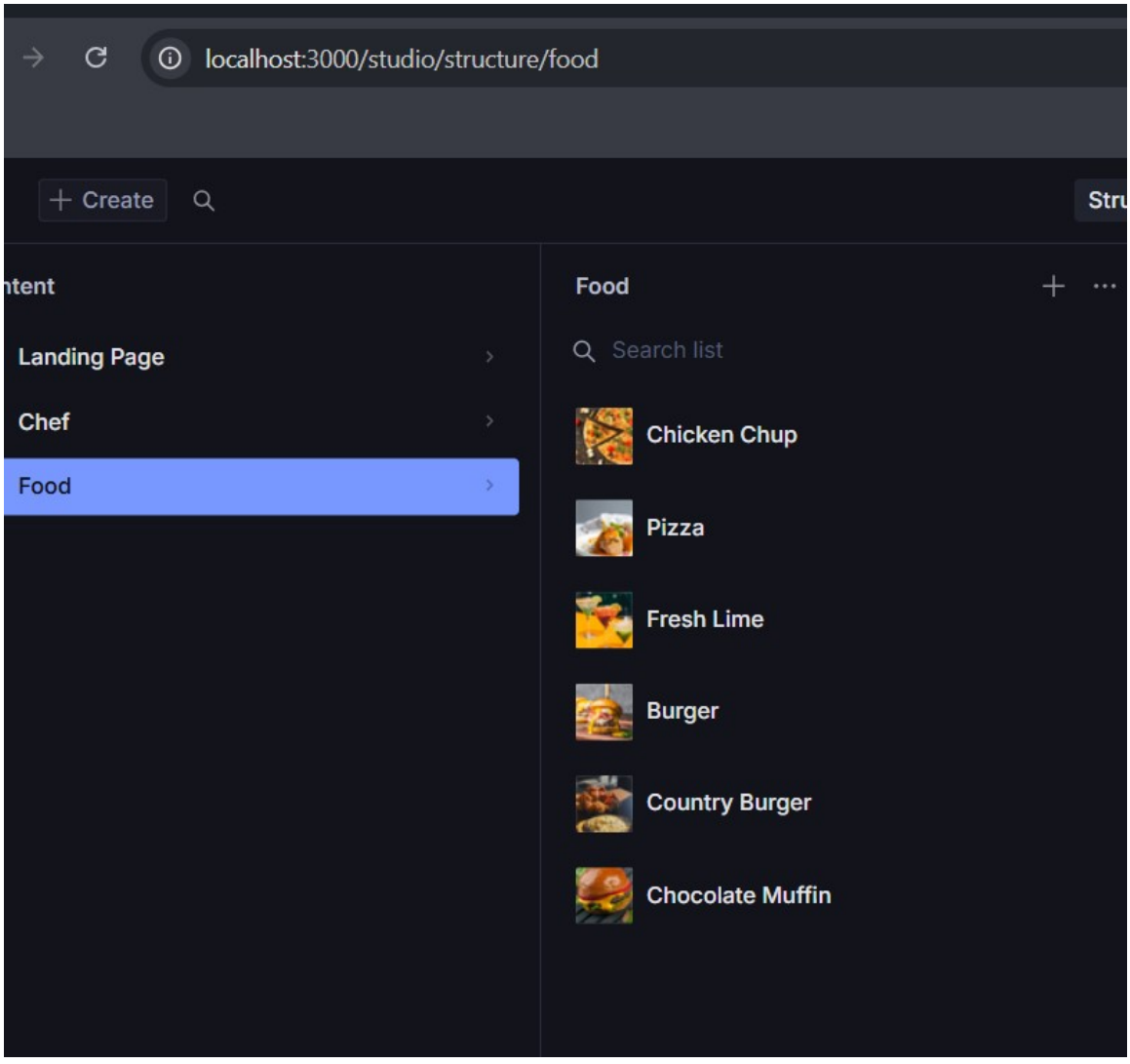


SANITY CMS DATA

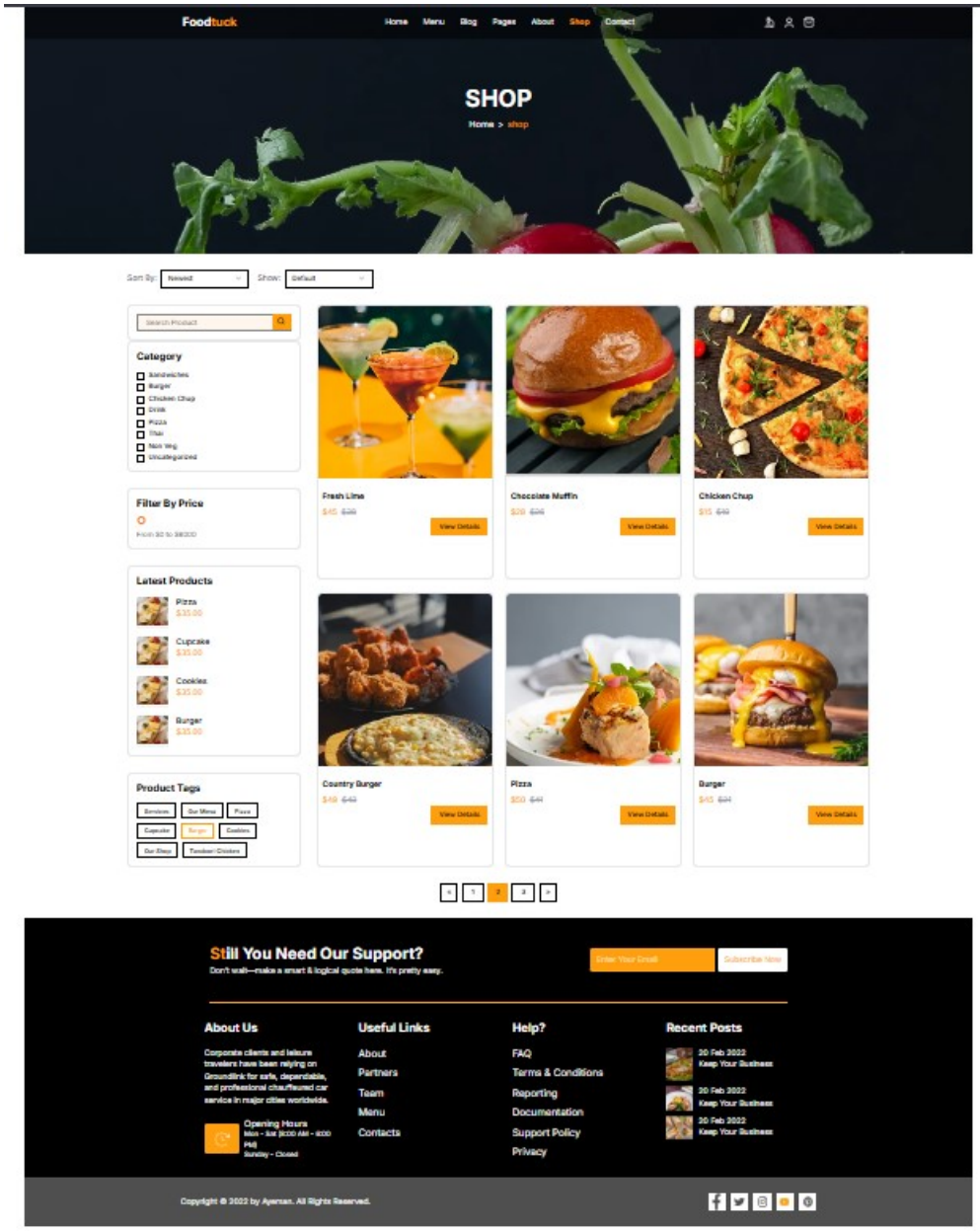
CHEF DATA


localhost:3000/studio/structure/chef
Create
Struct
Content
Landing Page
Chef
Food
Chef
Search list
William Rumi
Bisnu Devgon
Munna Kathy
M. Mohammad
Jorina Begum
Tahmina Rumi

FOOD DATA



DATA IN WEBSITE


Foodtuck
Home
Menu
Blog
Pages
About
Shop
Contact
SHOP
Home > shop
Sort By:
Newest
Show:
Default
Category
Filter By Price
Latest Products
Pizza
Cupcake
Cookies
Burger
Product Tags
Fresh Lime
Chocolate Muffin
Chicken Chup
Country Burger
Pizza
Burger
View Details
Still You Need Our Support?
Don't wait—make a smart & logical quote here. It's pretty easy.
Enter Your Email
Subscribe Now
About Us
Useful Links
About
Partners
Team
Menu
Contacts
Help?
FAQ
Terms & Conditions
Reporting
Documentation
Support Policy
Privacy
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Opening Hours
Sunday - Closed
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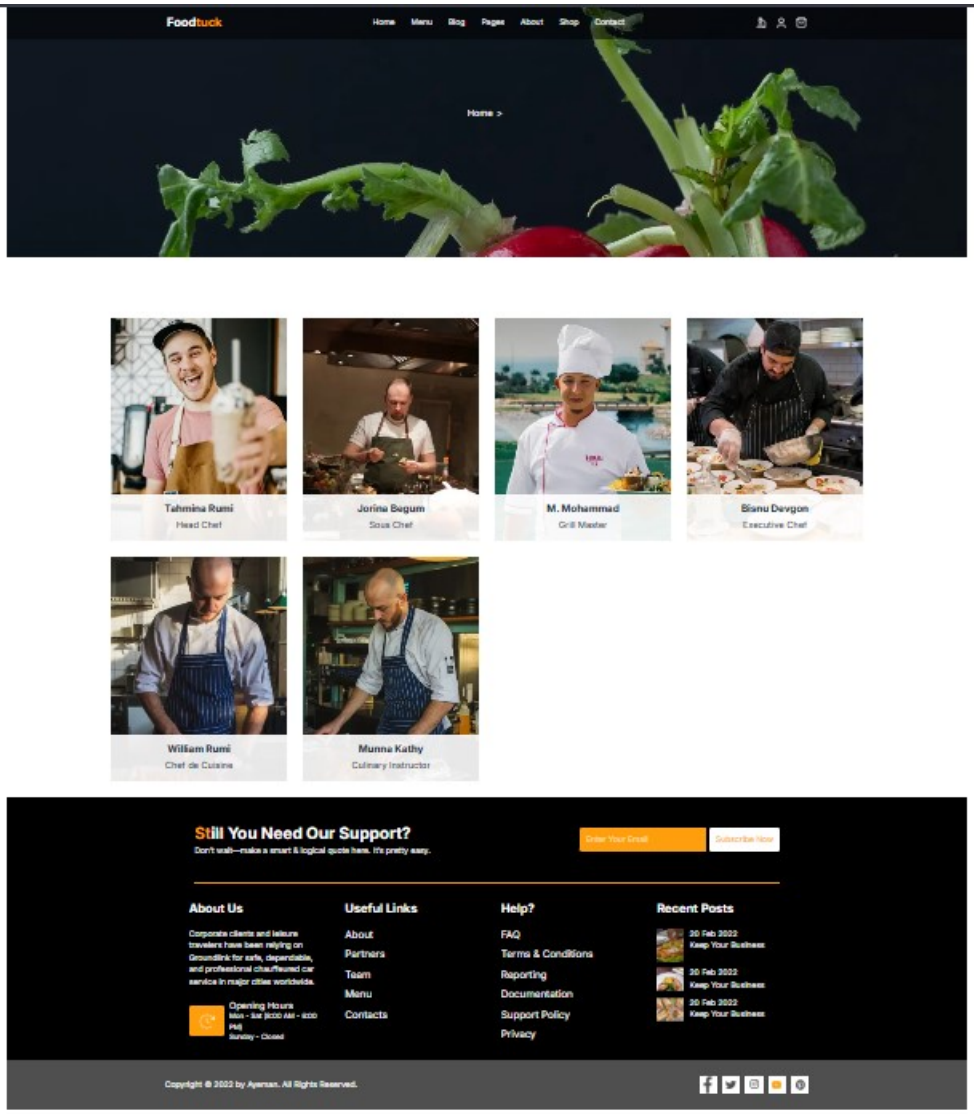
Foodtuck
Home
Menu
Blog
Pages
About
Shop
Contact
Home >
Tahmina Rumi
Head Chef
Jorina Begum
Sous Chef
M. Mohammad
Grill Master
Bisnu Devgon
Executive Chef
William Rumi
Chef de Cuisine
Munna Kathy
Culinary Instructor
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