

HACAKATHONE-3

[Q-Commerce Marketplace Builder]

Abstract

A modern food delivery website that offers a seamless browsing, ordering, and checkout experience. it ensures fast performance, secure payments via Stripe, and an intuitive UI for effortless food selection.

info

Food Tuck

FARWA KANWAL

Friday 9-12 (Morning)

Day 3 - API Integration Report - [Q-Commerce]

Project Overview

Project Name: FoodTuck

FoodTuck is an online food ordering platform that allows customers to browse menus, add items to their cart, and place orders seamlessly. The platform integrates APIs for real-time data fetching, secure payments, and order tracking to enhance the user experience.

API Integration Process for FoodTuck Marketplace

Reviewed API Documentation:

- Carefully examined the API documentation to understand available endpoints (e.g., `/foods`, `/chefs`).
- Analyzed the data structure, focusing on key fields (`name`, `price`, `image`) and their data types.

Set Up API Calls:

- Used **Postman** for testing API responses and verifying data accuracy.
- Implemented **Axios** instead of `fetch` for better error handling and control.
- Created utility functions within **Next.js** to fetch API data and validate responses via console logs.

Schema Adjustments for API Data

Food Schema Modifications:

- **Added Fields:**
 - `name`: Stores food item name.
 - `category`: Defines food type (e.g., appetizer, main course).
 - `price`: Holds numeric values for cost calculations.
 - `tags`: Stores food-specific labels (e.g., vegetarian, spicy).
 - `description`: Brief details about the food item.
 - `image`: Reference to the food image asset.

Chef Schema Modifications:

- **Added Fields:**
 - `name`: Chef's full name.
 - `position`: Job role (e.g., Head Chef, Sous Chef).
 - `experience`: Number of years in the profession.
 - `specialty`: Cuisine expertise (e.g., Italian, Pastry).
 - `description`: Background summary.
 - `image`: Reference to the chef's image asset.
 - **Modifications:**
 - `experience` field updated to numeric type for better representation.
-

Migration Steps and Tools Used

Preparation for Migration:

- Reviewed API data structure and ensured compatibility with **Sanity CMS** schemas.
- Identified relationships between **foods** and **chefs** for accurate data mapping.

Selected Migration Tools:

- **Axios**: To fetch API data efficiently.
- **Sanity Client**: For creating and managing content within Sanity CMS.
- **Node.js Environment**: Used to write migration scripts and handle API interactions.

Steps Taken for Data Migration:

1. **Fetching Data from API:**
 - Used **Axios** to make GET requests for `foods` and `chefs`.
 - Logged responses to verify data integrity before processing.
 2. **Uploading Images to Sanity:**
 - Downloaded images using **Axios** as an array buffer.
 - Uploaded assets to **Sanity CMS** and linked them to respective food and chef records.
 3. **Creating and Uploading Documents to Sanity:**
 - Structured API data into **Sanity-compliant** documents.
 - Included references for images, prices, and categories.
 - Uploaded data using `client.create()` method.
 4. **Error Handling and Debugging:**
 - Implemented structured error handling for API failures.
 - Maintained logs for API requests, image uploads, and document creation.
-

Tools Used for Migration:

- ✓ **Axios** – Fetch API data
 - ✓ **Sanity Client** – CMS integration
 - ✓ **Node.js** – Script execution
-

Task Status

- ✓ **API Documentation Reviewed**
- ✓ **Schema Structure Validated & Adjusted**
- ✓ **Data Successfully Migrated**
- ✓ **API Integrated in Next.js**
- ✓ **Final Submission Prepared**

TS chefs.ts



src > sanity > schemaTypes > TS chefs.ts > ...

```
1 const chef = {
2   name: 'chef',
3   type: 'document',
4   title: 'Chef',
5   fields: [
6     {
7       name: 'name',
8       type: 'string',
9       title: 'Chef Name',
10    },
11    {
12      name: 'position',
13      type: 'string',
14      title: 'Position',
15      description: 'Role or title of the chef (e.g., Head Chef, Sous Chef)',
16    },
17    {
18      name: 'experience',
19      type: 'number',
20      title: 'Years of Experience',
21      description: 'Number of years the chef has worked in the culinary field',
22    },
23    {
24      name: 'specialty',
25      type: 'string',
26      title: 'Specialty',
27      description: 'Specialization of the chef (e.g., Italian Cuisine, Pastry)',
28    },
29    {
30      name: 'image',
31      type: 'image',
32      title: 'Chef Image',
33      options: {
34        hotspot: true,
35      },
36    },
37    {
38      name: 'description',
39      type: 'text',
40      title: 'Description',
41      description: 'Short bio or introduction about the chef',
42    },
43    {
44      name: 'available',
45      type: 'boolean',
46      title: 'Currently Active',
47      description: 'Availability status of the chef',
48    },
49  ],
50 };
51
52 export default chef
```

TS food.ts

src > sanity > schemaTypes > TS food.ts > ...

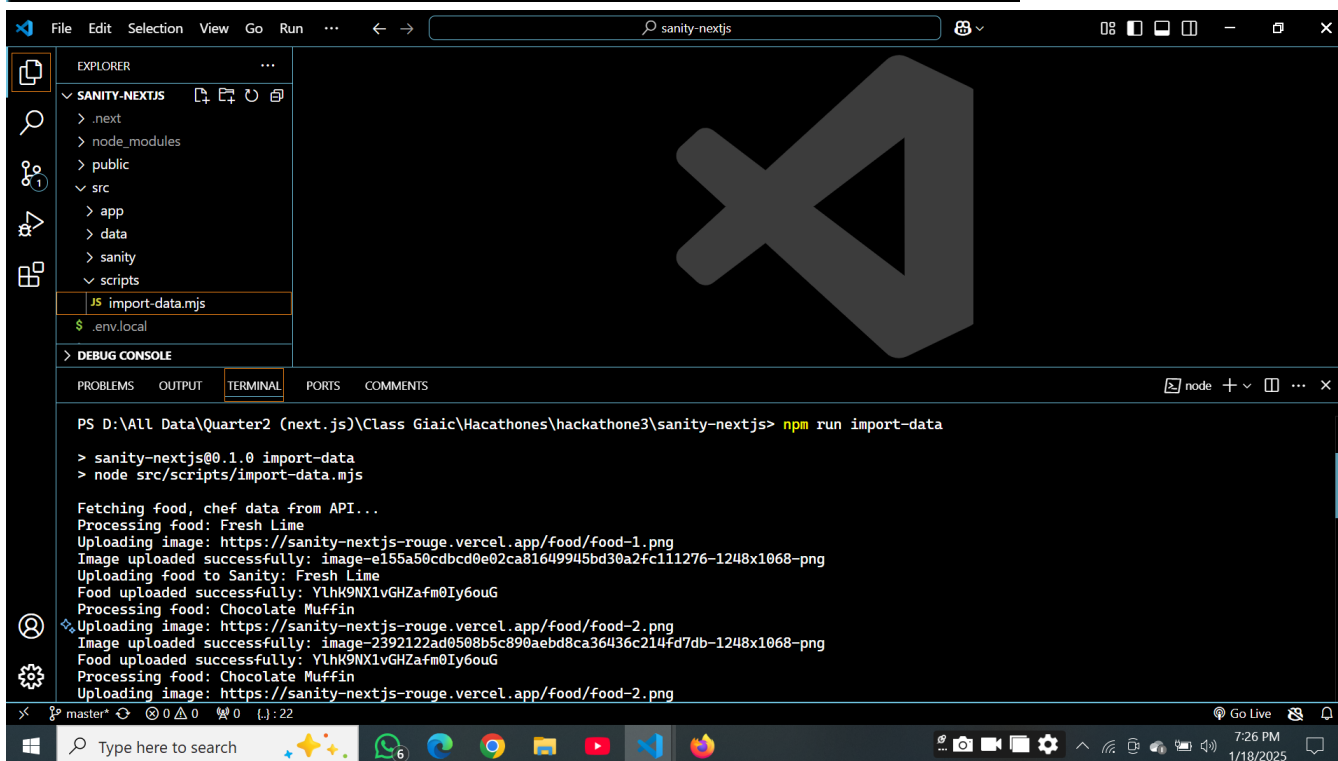
```
1 const food = {
2   name: 'food',
3   type: 'document',
4   title: 'Food',
5   fields: [
6     {
7       name: 'name',
8       type: 'string',
9       title: 'Food Name',
10    },
11    {
12      name: 'category',
13      type: 'string',
14      title: 'Category',
15      description:
16      | 'Category of the food item (e.g., Burger, Sandwich, Drink, etc.)',
17    },
18    {
19      name: 'price',
20      type: 'number',
21      title: 'Current Price',
22    },
23    {
24      name: 'originalPrice',
25      type: 'number',
26      title: 'Original Price',
27      description: 'Price before discount (if any)',
28    },
29    {
30      name: 'tags',
31      type: 'array',
32      title: 'Tags',
33      of: [{ type: 'string' }],
34      options: {
35        layout: 'tags',
36      },
37      description: 'Tags for categorization (e.g., Best Seller, Popular, New)',
38    },
39    {
40      name: 'image',
41      type: 'image',
42      title: 'Food Image',
43      options: {
44        hotspot: true,
45      },
46    },
47    {
48      name: 'description',
49      type: 'text',
50      title: 'Description',
51      description: 'Short description of the food item',
52    },
53    {
54      name: 'available',
55      type: 'boolean',
56      title: 'Available',
57      description: 'Availability status of the food item',
58    },
59  ],
60 };
61
62 export default food
```

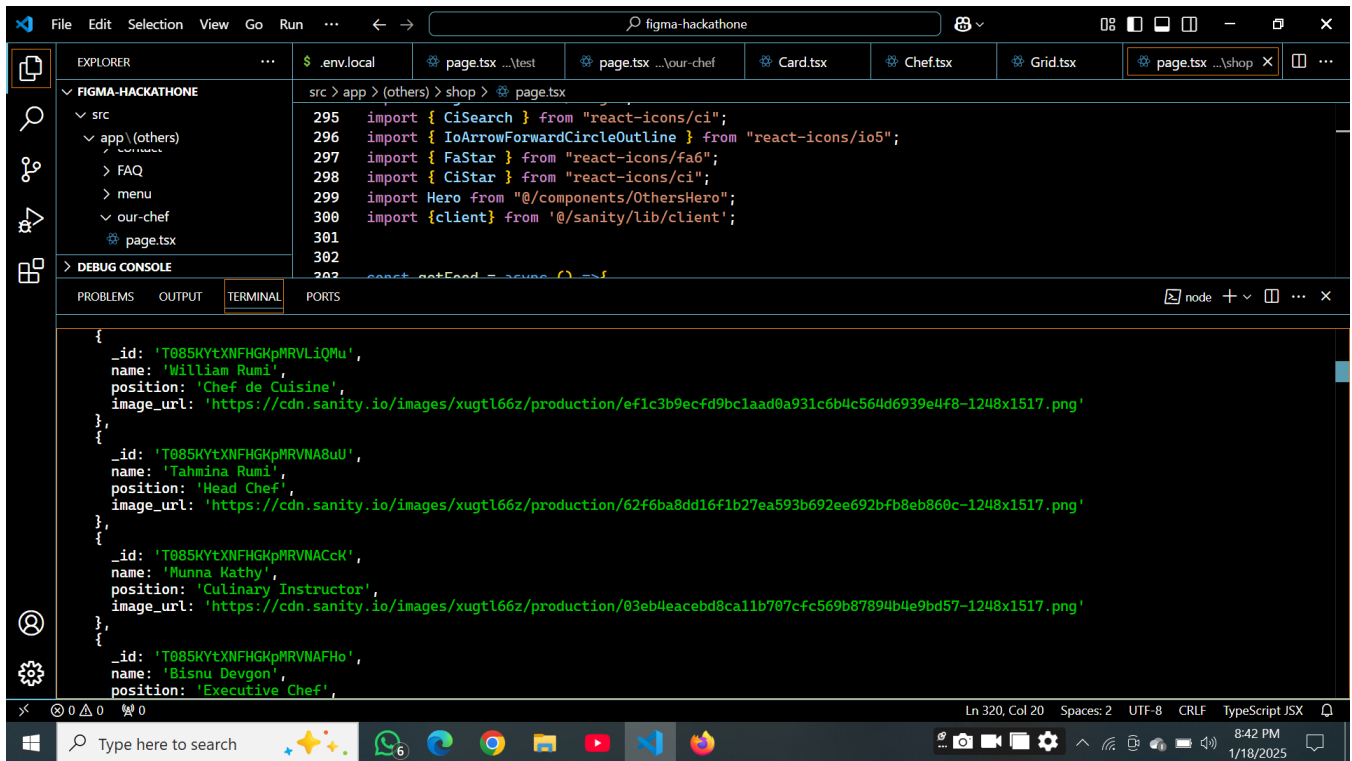
```

1 import { createClient } from 'aws-amplify';
2 import axios from 'axios';
3 import { DynamoDBClient } from '@aws-sdk/client-dynamodb';
4 import { DynamoDBDocumentClient } from '@aws-sdk/lib-dynamodb';
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 AWS client
13 const client = createClient({
14   project: process.env.AWS_PUBLIC_SANITY_PUBLIC_ID,
15   dataset: process.env.AWS_PUBLIC_SANITY_DATASET,
16   service: 'sanity',
17   token: process.env.SANITY_API_TOKEN,
18   apiVersion: '2023-08-01',
19 });
20
21 export 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 name = await client.assets.upload('image', buffer, {
27       filename: imageUrl.split('/').pop(),
28     });
29     console.log('Image uploaded successfully: ${name._id}');
30     return name._id;
31   } catch (error) {
32     console.error('Failed to upload image', imageUrl, error);
33     return null;
34   }
35 }
36
37 export function fetchData() {
38   try {
39     console.log('Fetching food, chef data from API...');
40
41     // API endpoint containing data
42     const $domain = '[]';
43     $promisepush(
44       axios.get('https://sanity-test-image-svc01.app/api/foods')
45     );
46     $promisepush(
47       axios.get('https://sanity-test-image-svc01.app/api/chefs')
48     );
49     const [foodResponse, chefResponse] = await Promise.all($promises);
50     const foods = foodResponse.data;
51     const chefs = chefResponse.data;
52
53     for (const food of foods) {
54       console.log('Processing food: ${food.name}');
55
56       let imageUrl = null;
57       if (food.image) {
58         imageUrl = await uploadImageToSanity(food.image);
59       }
60
61       const sanityFood = {
62         _type: 'food',
63         name: food.name,
64         category: food.category || null,
65         price: food.price,
66         originalPrice: food.originalPrice || null,
67         tags: food.tags || [],
68         description: food.description || '',
69         available: food.available || (isOnline ? food.available : true),
70         image: imageUrl
71       };
72
73       console.log('Uploading food to Sanity', sanityFood.name);
74       const result = await client.create(sanityFood);
75       console.log('Food uploaded successfully: ${result._id}');
76
77       for (const chef of chefs) {
78         console.log('Processing chef: ${chef.name}');
79
80         let imageUrl = null;
81         if (chef.image) {
82           imageUrl = await uploadImageToSanity(chef.image);
83         }
84
85         const sanityChef = {
86           _type: 'chef',
87           name: chef.name,
88           position: chef.position || null,
89           experience: chef.experience || 0,
90           specialty: chef.specialty || '',
91           description: chef.description || '',
92           available: chef.available || (isOnline ? chef.available : true),
93           image: imageUrl
94         };
95
96         console.log('Uploading chef to Sanity', sanityChef.name);
97         const result = await client.create(sanityChef);
98         console.log('Chef uploaded successfully: ${result._id}');
99
100         console.log('Data import completed successfully!');
101       }
102     }
103   } catch (error) {
104     console.error('Error importing data:', error);
105   }
106 }
107
108 importData();

```

```
TS index.ts X
src > sanity > schemaTypes > TS index.ts > ...
1 import chef from './chefs';
2 import food from './foods';
3 import { type SchemaTypeDefinition } from 'sanity'
4
5 export const schema: { types: SchemaTypeDefinition[] } = {
6   types: [food, chef],
7 }
8
```





```

src > app > [others] > our-chef > @ pageflux > ...
21 import React from "react";
22 import Hero from "@components/OtherHero";
23 import { client } from "@sanity/lib/client";
24 import Image from "next/image";
25 import { FaArrowRight } from "react-icons/fa";
26 import Link from "next/link";
27
28 // Define the interface for Chef data
29 interface IChef {
30   _id: string;
31   name: string;
32   position: string;
33   image_url: string;
34 }
35
36 // Fetch chefs dynamically from Sanity
37 const getChefs = async (): Promise<IChef[]> => {
38   const query = `
39     *[_type == "chef"] {
40       _id,
41       name,
42       position,
43       "image_url": image.asset->url
44     }
45   `;
46   const chefs = await client.fetch(query);
47   return chefs;
48 };
49
50 const OurChef = async () => {
51   const chefs = await getChefs();
52
53   return (
54     <div>
55       <div>
56         <Hero headings="Our Chefs" />
57       </div>
58       <div>
59         <div className="wrapper grid grid-cols-1 sm:grid-cols-2 md:grid-cols-3 lg:grid-cols-4 gap-[30px] space-y-1 my-[50px] md:my-[120px]">
60           {chefs.map((chef: IChef) => (
61             <div>
62               <div>
63                 className="w-full lg:w-[260px] h-[450px] shadow-lg rounded-lg overflow-hidden"
64                 key={chef._id}
65               </div>
66               <div>
67                 <div className="w-full h-[360px] flex justify-center items-center">
68                   <Image
69                     src={chef.image_url}
70                     alt={chef.name}
71                     width={300}
72                     height={300}
73                     className="w-full h-full object-cover"
74                   />
75                 </div>
76                 <div>
77                   <div className="flex flex-col items-center w-full bg-gray-50 p-2">
78                     <h2 className="font-bold text-lg">{chef.name}</h2>
79                     <p className="text-sm text-gray-600">{chef.position}</p>
80                     <Link href="/our-chef/${chef._id}"><button className="text-[#FF9900] inline-block font-secibold">View Details <FaArrowRight className="inline-block text-sm"/></button></Link>
81                   </div>
82                 </div>
83               </div>
84             </div>
85           ))}
86         </div>
87       </div>
88     </div>
89   );
90
91 export default OurChef;

```

```

src > app > [others] > our-chef > @ pageflux > ...
21 import React from "react";
22 import Hero from "@components/OtherHero";
23 import { client } from "@sanity/lib/client";
24 import Image from "next/image";
25 import { FaArrowRight } from "react-icons/fa";
26 import Link from "next/link";
27
28 // Define the interface for Chef data
29 interface IChef {
30   _id: string;
31   name: string;
32   position: string;
33   image_url: string;
34 }
35
36 // Fetch chefs dynamically from Sanity
37 const getChefs = async (): Promise<IChef[]> => {
38   const query = `
39     *[_type == "chef"] {
40       _id,
41       name,
42       position,
43       "image_url": image.asset->url
44     }
45   `;
46   const chefs = await client.fetch(query);
47   return chefs;
48 };
49
50 const OurChef = async () => {
51   const chefs = await getChefs();
52
53   return (
54     <div>
55       <Hero>
56         <HeroSection>
57           <h1>Our Chefs</h1>
58         </HeroSection>
59       </Hero>
60       <div class="wrapper grid grid-cols-1 sm:grid-cols-2 md:grid-cols-3 lg:grid-cols-4 gap-[30px] space-y-1 my-[50px] md:my-[120px]">
61         {chefs.map((chef: IChef) => (
62           <div>
63             <div class="w-full lg:w-[260px] h-[450px] shadow-lg rounded-lg overflow-hidden">
64               <img alt="Chef Image" />
65             </div>
66             <div class="p-4">
67               <h3>{chef.name}</h3>
68               <p>{chef.position}</p>
69               <button>View Details</button>
70             </div>
71           </div>
72         ))}
73       </div>
74     </div>
75   );
76 };
77
78 export default OurChef;

```

```

src > app > [others] > our-chef > @ pagetux > ...
21 import React from "react";
22 import Hero from "@/components/Other/Hero";
23 import { client } from "@/sanity/lib/client";
24 import Image from "next/image";
25 import { FaArrowRight } from "react-icons/fa6";
26 import Link from "next/link";
27
28 // Define the interface for Chef data
29 interface IChef {
30   _id: string;
31   name: string;
32   position: string;
33   image_url: string;
34 }
35
36 // Fetch chefs dynamically from Sanity
37 const getChefs = async (): Promise<IChef[]> => {
38   const query = `
39     *[_type == "chef"] {
40       _id,
41       name,
42       position,
43       "image_url": image.asset->url
44     }
45   `;
46   const chefs = await client.fetch(query);
47   return chefs;
48 };
49
50 const OurChef = async () => {
51   const chefs = await getChefs();
52
53   return (
54     <div>
55       {/* Render the Hero Section */}
56       <Hero heading="Our Chefs" />
57
58       {/* Render the Chef Grid */}
59       <div className="wrapper grid grid-cols-1 sm:grid-cols-2 md:grid-cols-3 lg:grid-cols-4 gap-[30px] space-y-1 my-[50px] md:my-[120px]">
60         {chefs.map((chef: IChef) => (
61           <div>
62             <div className="w-full lg:w-[260px] h-[450px] shadow-lg rounded-lg overflow-hidden">
63               <img alt={chef._id} />
64             </div>
65             <div className="w-full h-[360px] flex justify-center items-center">
66               <div>
67                 <Image
68                   src={chef.image_url}
69                   alt={chef.name}
70                   width={300}
71                   height={300}
72                   className="w-full h-full object-cover"
73                 />
74               </div>
75               <div>
76                 <div className="flex flex-col items-center w-full hq-gray-50 p-2">
77                   <h2 className="font-bold text-lg">{chef.name}</h2>
78                   <p className="text-sm text-gray-600">{chef.position}</p>
79                   <Link href="/our-chef/${chef._id}"><button className="text-[#FF9F8D] inline-block font-sansibold">View Details <FaArrowRight className="inline-block text-sm"/></button></Link>
80                 </div>
81               </div>
82             </div>
83           </div>
84         ))}
85       </div>
86     </div>
87   );
88 };
89
90 export default OurChef;
91

```

EXPLORER

HACKATHONE-3

> .git

> .next

> node_modules

> public

> src

> app

> (others)

> 404Error

> about

> api

> blog-page

> checkout

> page.tsx

> contact

> FAQ

> menu

> our-chef

> [id]

> page.tsx

> shipping

> shop

> [id]

> page.tsx

> shopping-cart

> signin

> signup

> success

> page.tsx

> SuccessPageContent.tsx

> tracking

> types

> types.ts

> layout.tsx

> (public)

> layout.tsx

> page.tsx

> fonts

page.tsx

src > app > (others) > shop > page.tsx > ...

543

544 import { Suspense } from "react"

545 import Hero from "@components/OthersHero"

546 import { ShopContent } from "@components/shop/ShopContent"

547 import { Loader } from "@components/Loader"

548

549 export default function OurShop() {

550 return (

551 <>

552 <Hero heading="Our Shop" />

553 <Suspense fallback={<Loader />}>

554 <ShopContent />

555 </Suspense>

556 </>

557)

558 }

559

560

561

562

563

564

565

566

567

568

569

570

571

572

Chocolate Dessert | Default

localhost:3000/studio/structure/food;YlhK9NX1vGHZafm0lxXohM

Default + Create

Structure Vision Schedules

Content

Food

Chef

Food

Search list

Chocolate Dessert

Prawns Plate

Chocolate Muffins

Cheese Burger

Chicken Nuggests

Chicken Tikka

Chicken Platter

Kabab Burger

Pizza (Mild)

Cranberry Salsa

Chocolate Dessert

Food

Chocolate Dessert

Food Name

Chocolate Dessert

Category

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

Desserts / Sweets

Current Price

270

Published last week

Publish

William Rumi | Default

localhost:3000/studio/structure/chef;T085KYtXNFHGKpMRVNAlze

Default + Create

Structure Vision Schedules

Content

Food

Chef

Chef

Search list

William Rumi

Bisnu Devgon

Munna Kathy

M. Mohammad

Jorina Begum

Tahmina Rumi

William Rumi

Bisnu Devgon

Munna Kathy

M. Mohammad

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

Published 2 wk. ago

Publish

Sort By: Price: Low to High Show: Show 12



Lime Juice
Beverages/Drinks
\$120.00
~~\$160.00~~

Show Details



Prawns Plate
Seafood
\$200.00
~~\$250.00~~

Show Details



Kabab Burger
Fast Food
\$220.00
~~\$270.00~~

Show Details



Chocolate Muffins
Desserts / Sweets
\$230.00
~~\$280.00~~

Show Details



Chocolate Dessert
Desserts / Sweets
\$270.00
~~\$330.00~~

Show Details



Chicken Nuggests
Fast Food
\$280.00
~~\$340.00~~

Show Details



Cranberry Salsa
Dips & Sauces
\$300.00
~~\$380.00~~

Show Details



Chicken Platter
Chicken
\$340.00
~~\$380.00~~

Show Details



Chicken Tikka
Chicken
\$350.00
~~\$410.00~~

Show Details



Cheese Burger
Fast Food
\$350.00
~~\$390.00~~

Show Details



Mix Vegetables
Vegetables
\$430.00
~~\$490.00~~

Show Details



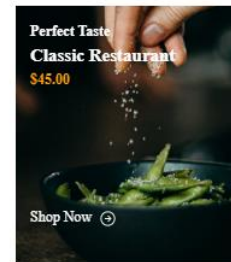
Pizza (Mild)
Pizza
\$450.00
~~\$500.00~~

Show Details

Search Product

Category

- ☐ Chicken
- ☐ Fast Food
- ☐ Pizza
- ☐ Vegetables
- ☐ Desserts / Sweets
- ☐ Seafood
- ☐ Dips & Sauces
- ☐ Beverages/Drinks
- ☐ Pizza



Filter By Price

100 - 500
\$100 - \$500 Filter

Latest Products

Fresh Breakfast
★ ★ ★ ★ ★
14.5\$

Product Tags

Services Our Menu



Tahmina Rumi
Head Chef
[View Details →](#)



William Rumi
Chef de Cuisine
[View Details →](#)



Tahmina Rumi
Head Chef
[View Details →](#)



Munna Kathy
Culinary Instructor
[View Details →](#)



Bisnu Deygon
Executive Chef
[View Details →](#)



William Rumi
Chef de Cuisine
[View Details →](#)



Bisnu Deygon
Executive Chef
[View Details →](#)



M. Mohammad
Grill Master
[View Details →](#)



Jorina Begum
Sous Chef
[View Details →](#)



M. Mohammad
Grill Master
[View Details →](#)



Munna Kathy
Culinary Instructor
[View Details →](#)



Jorina Begum
Sous Chef
[View Details →](#)