# **Food Website Documentation**

## 1. Business Overview

## 1.1 Purpose

The purpose of this food website is to create an online platform where customers can:

- Browse a variety of food items, meals, or beverages.
- Place online orders for delivery or pickup.
- Track their orders in real-time.

#### 1.2 Goals

- Provide a seamless food ordering experience.
- Ensure accurate and timely delivery of orders.
- Build customer loyalty through excellent service and user experience.

## 1.3 Target Audience

- Individuals aged 18-45.
- Office workers, students, and busy professionals looking for convenient food options.
- Food enthusiasts who want high-quality meals delivered to their doorstep.

## 1.4 Unique Selling Points

- Real-time order tracking.
- Curated menu with locally sourced ingredients.
- Integration with top-notch logistics providers for fast delivery.
- User-friendly interface with personalized recommendations.

# 2. Features and Functionality

#### 2.1 User Features

#### 1. Authentication

- Users can sign up, log in, and log out using <u>Clerk</u>.
- o Social login options (Google, Facebook, etc.).

#### 2. Food Menu

- o View categorized food items (e.g., meals, beverages, desserts).
- o Search and filter options (e.g., by cuisine, price, or dietary preferences).

#### 3. Ordering System

- o Add items to the cart.
- Modify quantities before checkout.
- Apply promo codes and discounts.

### 4. Payment Gateway

o Integration with payment providers (Stripe).

### 5. Order Tracking

- o Real-time order tracking using ShipEngine.
- o Notifications for order status (e.g., order confirmed, out for delivery).

#### 6. Reviews and Ratings

- o Users can rate their food and delivery experience.
- o Option to leave feedback for continuous improvement.

#### 2.2 Admin Features

#### 1. Dashboard

- Manage menu items (add, update, delete).
- View and manage user accounts.
- Monitor order statuses.

### 2. Order Management

- View incoming orders in real time.
- o Assign orders to delivery personnel.

## 3. Analytics and Reporting

- o Sales data visualization.
- o Customer feedback analysis.
- o Track popular menu items.

# 3. Technical Overview

#### 3.1 Tech Stack

- **Frontend**: React with Next.js and Tailwind CSS for styling.
- Backend: Next.js API routes and Sanity for content management.
- **Database**: Sanity for storing product details and user data.
- Authentication: Clerk for user management and secure login.
- **Order Tracking**: ShipEngine for real-time delivery updates.

#### **3.2 APIs**

### 1. Sanity CMS

- o Manages food items, categories, and blog content.
- Fetch data using GROQ queries.

#### 2. Clerk

o Handles user authentication, profile management, and session handling.

- 3. ShipEngine
  - o Provides shipping rates, label creation, and order tracking.
- 4. Stripe
  - Facilitates secure online payments.

#### 3.3 Database Structure

- User
  - o ID, Name, Email, Password, Address, Order History.
- Food Items
  - o ID, Name, Category, Price, Ingredients, Image URL.
- Orders
  - o Order ID, User ID, Food Items, Total Amount, Status.
- Delivery
  - o Order ID, Tracking Number, Status, Estimated Delivery Time.

# 4. Workflow

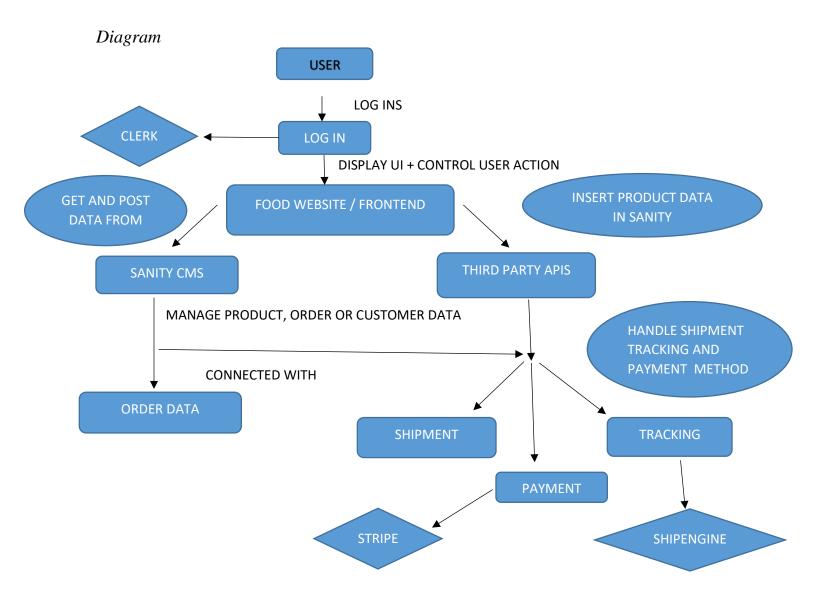
### 4.1 User Workflow

- 1. **Sign-Up/Login**: Users register or log in using Clerk.
- 2. **Browse Menu**: Explore food items from the categorized menu.
- 3. **Place Order**: Add items to the cart, confirm details, and make payment.
- 4. **Order Confirmation**: Receive confirmation via email or notification.
- 5. Track Order: Real-time updates via ShipEngine.
- 6. **Delivery**: Receive food and leave feedback.

#### 4.2 Admin Workflow

- 1. **Menu Management**: Add or update food items in Sanity.
- 2. **Order Processing**: Approve and assign delivery using the admin dashboard.
- 3. **Delivery Coordination**: Use ShipEngine to track and manage deliveries.
- 4. **Analytics Monitoring**: Review performance metrics and customer feedback.

# **WorkFlow Diagram**



# **5. API Integration Steps**

## **5.1 Sanity CMS**

- 1. Create schemas for Food Items, Categories, and Orders.
- 2. Use GROQ queries to fetch data for the menu and blog

## **Schemas**

# **Food Schema**

```
export default {
    name: 'food',
    type: 'document',
    title: 'Food',
    fields: [
        name: 'title',
       type: 'string',
        title: 'Food Title',
      },
        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: 'rating',
        type: 'number',
        title: 'Rating',
        description: 'Customers rating',
      },
        name: 'image',
        type: 'image',
        title: 'Food Image',
        options: {
          hotspot: true,
```

```
},
      name: 'description',
     type: 'text',
     title: 'Description',
      description: 'Short description of the food item',
      },
          name: "id",
          type: "string",
          title:"Id"
    },
     name: 'stock',
     type: 'boolean',
     title: 'Available',
      description: 'Availability status of the food item',
 ],
};
```

# **Chef Schema**

```
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',
        options: {
         hotspot: true,
       },
      },
       name: 'description',
       type: 'text',
       title: 'Description',
       description: 'Short bio or introduction about the chef',
      },
       name: 'available',
       type: 'boolean',
       title: 'Currently Active',
       description: 'Availability status of the chef',
    ],
  };
```

# **Order Schema**

# **GROQ Queries Food**

```
const query = `*[_type == "food"]{
    __id,
    title,
    price,
    price,
    "imageUrl": image.asset->url,
    description,
    rating,
    review,
    stock
}`;
const data: Product[] = await client.fetch(query);
```

# Chef

```
const query = `*[_type=="chef"]{
   _id,
   name,
   specialty,
   "imageUrl":image.asset->url,
   }`
   const chef = await client.fetch(query)
```

### **5.2 Clerk Authentication**

- 1. Install Clerk SDK.
- 2. Set up authentication routes for sign-up, login, and logout.
- 3. Restrict access to certain pages using Clerk middleware.

## 5.3 ShipEngine

- 1. Create a ShipEngine account.
- 2. Use API keys to integrate real-time order tracking.
- 3. Fetch delivery status and display it on the user's dashboard.

## **5.4 Stripe Payment**

- 1. Create a Stripe account.
- 2. Set up payment intents for secure transactions.
- 3. Confirm payment status before order confirmation.