

# Technical Foundation (Food Web)

## Technical Requirements for Food Website

### 1. System Architecture Overview

#### Food Website Overview

##### Frontend Pages:

1. **Home Page:** Serves as the central hub showcasing the menu, featured products, blogs, and chef highlights.
2. **Menu:** Displays all available food items categorized for easy navigation.
3. **Product Detail:** Provides a detailed view of individual food items, including ingredients and customization options.
4. **Blog:** Features food-related articles and tips.
5. **Blog Detail:** Individual blog page displaying the full content of an article.
6. **About Us:** Describes your brand, mission, vision, and team.
7. **Contact Page:** Includes a form for users to submit inquiries or feedback.
8. **Chef Section:** Highlights key chefs along with their specialties and achievements.
9. **Cart & Checkout:** Offers a user-friendly shopping cart and a secure, seamless checkout process.
10. **Sign In/Sign Up:** Dedicated pages for user account creation and management.

##### Sanity Backend

Sanity CMS will manage the following components:

- **Products:** Categories, prices, availability, and customization options.
- **Blogs:** Titles, content, images, and tags for blog articles.
- **Customer Data:** User profiles, saved addresses, and order history.
- **Orders:** Real-time updates on order statuses and delivery progress.

##### Third-Party API Integrations

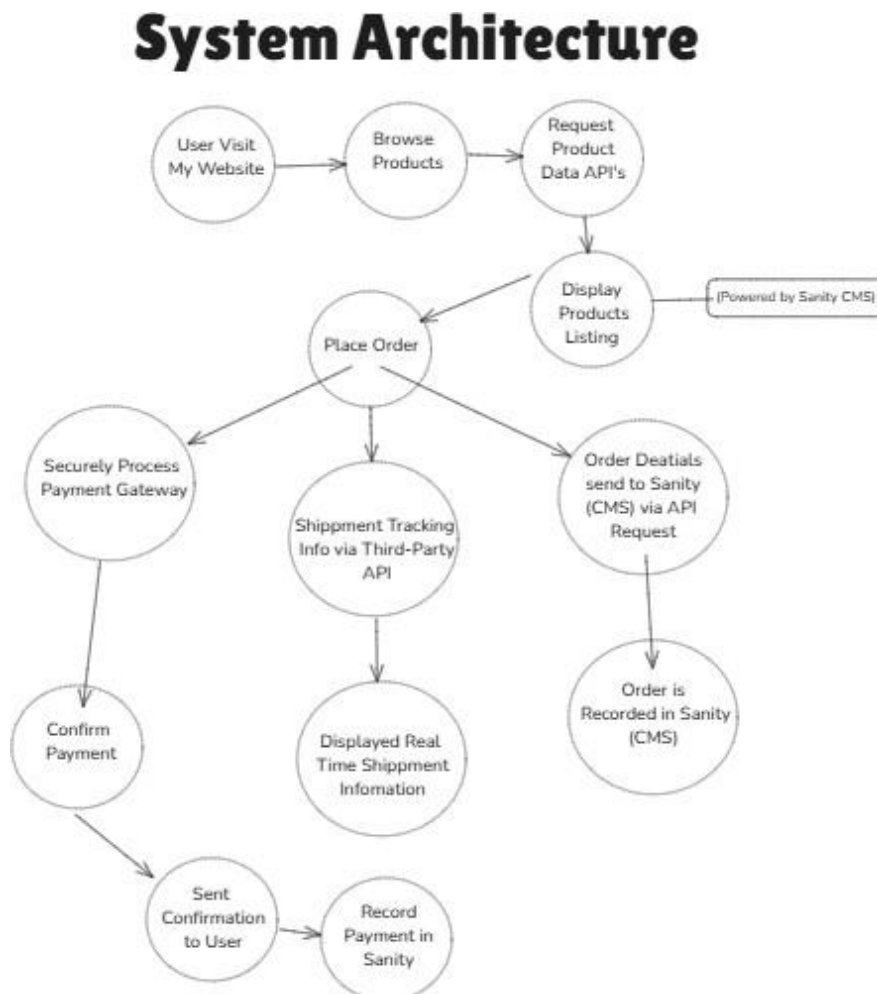
1. **Payment Gateways:**
  - Integrate EasyPaisa or JazzCash for secure online transactions.
2. **Food Delivery Services:**

- Partner with third-party delivery services for seamless logistics.
- 3. **User Authentication:**
  - Implement OAuth or custom authentication methods for account sign-ins.
- 4. **Order and Delivery Tracking:**
  - Use APIs like Shippo for real-time order tracking.
- 5. **Maps and Location Services:**
  - Embed Google Maps API to display restaurant locations and delivery zones.

#### System Architecture Overview (Diagram)

- A detailed diagram will illustrate the interaction between the frontend, backend (Sanity CMS), and third-party services.

## System Architecture Overview (Diagram):



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### 3. Technical Roadmap

#### 1. Frontend Development

- **Milestone 1:** Build the Home Page with basic navigation functionality.
- **Milestone 2:** Create the following key pages:
  - Menu
  - Product Detail
  - Cart
  - Sign Up/Sign In
- **Milestone 3:** Develop dynamic sections:
  - Blog
  - Chef Section
  - Contact Page

#### 2. Backend Development

- **Milestone 1:** Set up Sanity CMS for:
  - Managing product data and availability.
  - Managing blog posts and associated content.
- **Milestone 2:** Integrate the following APIs:
  - Payment Gateways (e.g., EasyPaisa, JazzCash).
  - Order and Delivery Tracking APIs.

#### 3. Third-Party API Integration

- **Step 1:** Implement user authentication, such as Sign in with Google or Facebook.
- **Step 2:** Integrate food delivery services for logistics.
- **Step 3:** Connect Google Maps for delivery zone visualization.

#### 4. Testing & Deployment

- Conduct thorough testing to ensure the website is fully responsive and all functionalities work as expected.
- Deploy the website on a reliable platform such as Vercel.