

Food Ordering System Specification

Overview:

It's a simple food ordering web app. Imagine you walk into a restaurant, scan a QR code, see the restaurant's menu, pick meals that you like, pay and your order is sent to the kitchen - no waiters needed.

Client-End Specs:

1. Menu Page:

- Display all available categories (Snacks, Salads, Main, Drinks... etc).
- Display all available meals grouped by categories.
- Each meal should be displayed under its respective category.
- Allow users to filter meals by category.
- Each meal item should include:
 - Name
 - Short Description
 - Price
 - Image (if available)
- Each meal item should be clickable to view more details.

2. Product Page:

- Display detailed information about a selected meal.
- Information to include:
 - Name
 - Description
 - Price
 - Image (if available)
 - Add-on/Toppings options (if available)
 - Add to cart button

3. Cart Functionality:

- Allow users to add meals to the cart from both the menu page and the product page.
- Display the selected items in the cart with:
 - Name
 - Quantity
 - Price
 - Add-on/Toppings options (if any)
 - Total cost
- Ability to adjust quantity or remove items from the cart.
- Ability to add Instructions / Comments (Text field)
- Display the total cost of the order.
- Include a tipping option at checkout, allowing users to select a predefined tip amount or enter a custom tip amount.

4. Payment Integration:

- Implement Stripe payment method for secure transactions.
- Allow users to enter payment details and complete the transaction.
- Allow users to pay via apple pay.
- Handle successful and failed payment transactions.
- Upon successful payment, display a confirmation message along with the order number, total cost, tip amount, and table number.

5. Order Confirmation:

- After successful payment, display a confirmation message to the client.
- Include the order number, total cost, tip amount, and table number in the confirmation message.

Admin Panel Specs:

1. Menu Categories Management:

- Allow admin to create, update, and delete menu categories (Snacks, Salads, Main, Drinks... etc).

2. Add-on/Toppings Management:

- Allow admin to create, update, and delete add-on/toppings options

3. Meal Management:

- Create, update, and delete meal items.
- Fields to include when creating/editing meals:
 - Name
 - Description
 - Price
 - Image upload
 - Nutrition information
 - Category selection (from predefined list)
 - Ability to select add-on/toppings options
- Ability to mark meals as active or inactive.

4. Order Management:

- View all active orders in real-time.
- Display order details including:
 - Order number
 - Table number
 - Order items
 - Total cost
 - Tip Amount
 - Payment status
 - Instructions / Comments from the client
- Ability to mark orders as fulfilled or cancelled.

5. Authentication and Authorization:

- Secure login system for admin users.

6. Table/QR Code Management:

- Allow admin to create, update, and delete unique tables.
- Generate a unique table ID for each table.
- Generate a unique URL for the menu page with the embedded table ID.
 - Example: https://yourwebsite.com/menu?table_id=5
- Generate QR codes with the unique URL for each table.

Tech Stack:

- React.js
- Node.js / Express.js
- MongoDB
- Stripe