# Functional Requirement

1.1 User Account Management

Input: Username, password, email address, mobile number.

Output: Successful account creation prompt, login success prompt, account status update.

Function Description: Users can register new accounts, log in to existing accounts, modify personal information, and change passwords.

1.2 Restaurant Browsing & Search

Input: Keyword search, location data.

Output: Search result list, restaurant detail page.

Function Description: Users can search nearby restaurants by keyword or location and view menus and reviews.

1.3 Dish Browsing & Selection

Input: Dish ID, quantity.

Output: Add-to-cart confirmation message.

Function Description: Users can select dishes from a restaurant menu and add them to the shopping cart.

1.4 Cart Management

Input: Cart actions (add, delete, modify quantity).

Output: Cart update notification.

Function Description: Users can manage selected dishes in the cart, including adding, deleting, and adjusting quantities.

1.5 Order Submission

Input: Delivery address, payment method selection.

Output: Order confirmation page, payment success/failure message.

Function Description: Users can enter a delivery address, choose a payment method, and submit the order.

1.6 Order Tracking

Input: Order number.

Output: Real-time order status updates.

Function Description: Users can track order status in real time using the order number, including preparing, delivering, and delivered.

1.7 Payment Processing

Input: Payment method (credit card, debit card, e-wallet, etc.), payment amount.

Output: Payment success or failure message.

Function Description: The system supports multiple payment methods to ensure a secure and fast payment process.

1.8 Rating & Feedback

Input: Review content, rating.

Output: Review published successfully message.

Function Description: Users can rate the restaurant and service after receiving the items.

1.9 User Notifications

Input: Order status changes.

Output: SMS, email, or in-app notifications.

Function Description: The system automatically sends order status updates to users, such as order confirmed, delivering, and delivered.

1.10 Delivery Staff Management

Input: Delivery staff login info, order information.

Output: Order assignment, status update.

Function Description: The system assigns orders to delivery staff and tracks their order status.

1.11 Restaurant Management

Input: Dish information, inventory, business hours.

Output: Menu update, order receipt.

Function Description: Restaurant admins can manage menus, update inventory, set business hours, and receive orders.

1.12 Promotional Activities

Input: Coupon code, discount information.

Output: Discount applied confirmation message.

Function Description: Users can use coupons or participate in discount activities to enjoy promotions.

1.13 Order History

Input: User account.

Output: Historical order list.

Function Description: Users can view past order records for convenient reordering.

1.14 Customer Support

Input: User questions, feedback.

Output: Customer service reply.

Function Description: Users can contact customer service via online chat or phone to resolve inquiries and issues.

1.15 Map Integration

Input: User’s current location, restaurant location.

Output: Route plan, distance information.

Function Description: Integrates map services to help users find the nearest restaurant and plan routes.

1.16 Social Sharing

Input: Dish or restaurant information.

Output: Sharing link.

Function Description: Users can share dish or restaurant information to social media platforms.

1.17 Language Support

Input: User-selected language.

Output: App interface language switch.

Function Description: The system supports multiple languages to meet diverse user needs.

1.18 Data Statistics & Analysis

Input: Order data, user behavior.

Output: Statistical report.

Function Description: The system collects and analyzes order data, generating reports to assist decision-making.