# Functional Requirement

1.1 User Registration & Login

Input: user mobile number / email address, password

Output: registration-success message, login-success message, error prompts (e.g., account not found, wrong password)

Function: Users can register with a mobile number or email address and set a password. After registration the same credentials can be used to log in.

1.2 Restaurant & Dish Browsing

Input: user location (optional), search keywords

Output: restaurant list, dish details

Function: Users can browse nearby restaurants and their dishes by location or keywords. Basic restaurant info and featured dishes are displayed.

1.3 Shopping-Cart Management

Input: dishes selected by the user

Output: list of dishes in cart, total price

Function: Users can add favorite dishes to the cart and perform add / delete / modify operations on cart items.

1.4 Order Submission

Input: dishes in cart, delivery address, contact info

Output: order-confirmation page, payment page

Function: When submitting an order the system shows order details for confirmation; after confirmation the user proceeds to payment.

1.5 Real-Time Order Tracking

Input: order ID

Output: order-status updates

Function: Users can view real-time order status such as “preparing”, “delivering”, “delivered”.

1.6 Payment

Input: payment method (credit card, Alipay, WeChat Pay, etc.)

Output: payment-success message

Function: Supports multiple payment methods; users choose one to complete payment.

1.7 User Review

Input: user rating and comments on the order

Output: review-submitted-success message

Function: After receiving the order the user can rate dishes and service, including a score and text comments.

1.8 Restaurant Management

Input: admin operations (add/remove dishes, update inventory, view orders, etc.)

Output: result feedback of the operation

Function: Restaurant admins can manage restaurant info: add/remove dishes, update stock, view orders, etc.

1.9 Recommendation System

Input: user historical order data

Output: personalized dish recommendations

Function: Based on past orders the system recommends similar or popular dishes.

1.10 Coupons & Promotions

Input: coupons/promotions selected by the user

Output: discounted order total

Function: Users can apply system-issued coupons or join promotions to enjoy discounts.

1.11 User Feedback

Input: user feedback content

Output: feedback-submitted-success message

Function: Users can submit issues and suggestions encountered during use to help improve the system.

1.12 Self-Service Order Cancellation

Input: order selected by the user

Output: cancellation-success message

Function: Users can cancel unfulfilled orders themselves; the system handles refunds automatically according to order status.

1.13 Delivery Staff Management

Input: courier operations (accept order, in transit, delivery confirmed, etc.)

Output: operation result feedback

Function: Couriers can accept orders via the system, update order status (in transit, delivered) and confirm corresponding actions.