## **Functional Requirements (SRS)**

### **1. Food Menu Maintenance**

* **FR1.1:** The system shall allow an administrator to add new food or beverage items.  
  + **Input:** Item name, category, price.
  + **Output:** Confirmation message with Item ID.
* **FR1.2:** The system shall allow an administrator to update existing item details.  
  + **Input:** Item ID, updated name/category/price.
  + **Output:** Confirmation of successful update.
* **FR1.3:** The system shall allow an administrator to delete items no longer offered.  
  + **Input:** Item ID.
  + **Output:** Confirmation of successful deletion.

### **2. Placing Orders**

* **FR2.1:** The system shall allow customers to place orders online, by phone, or at the premises.  
  + **Input:** Customer credentials (login or phone number), selected items and quantities, order type (online/phone/in-premises).
  + **Output:** Confirmation message with Order ID and order summary.
* **FR2.2:** The system shall validate that selected items exist in the menu.  
  + **Input:** List of Item IDs and quantities.
  + **Output:** Validation success or error indicating invalid Item ID.

### **3. Order Recording**

* **FR3.1:** The system shall record details of each order.  
  + **Input:** Order ID, Customer ID, list of Item IDs with quantities, date, time, order type.
  + **Output:** Stored order record in database.
* **FR3.2:** The system shall record payment details for each order.  
  + **Input:** Order ID, payment mode, payment transaction details.
  + **Output:** Stored payment record linked to Order ID.

### **4. Delivery Partner Assignment**

* **FR4.1:** The system shall assign a delivery partner to each delivery order based on area code.  
  + **Input:** Order ID, customer address (area code).
  + **Output:** Assignment confirmation with Delivery Person ID.
* **FR4.2:** The system shall prevent assignment of a delivery partner outside their area code.  
  + **Input:** Delivery Person ID, customer area code.
  + **Output:** Error if area codes do not match.

### **5. Delivery Recording**

* **FR5.1:** The system shall record delivery details for each order.  
  + **Input:** Delivery ID, Order ID, Delivery Person ID, delivery date and time, delivery status (Pending/Completed/Cancelled).
  + **Output:** Stored delivery record in database.

### **6. Customer Management**

* **FR6.1:** The system shall allow registration of new customers.  
  + **Input:** Name, phone, address, email (optional).
  + **Output:** Confirmation with Customer ID.
* **FR6.2:** The system shall maintain and update customer premium status.  
  + **Input:** Customer ID, premium status flag (true/false).
  + **Output:** Confirmation of status change.
* **FR6.3:** The system shall retrieve customer order history.  
  + **Input:** Customer ID.
  + **Output:** List of past orders with dates, items, totals.

### **7. Staff Management**

* **FR7.1:** The system shall allow an administrator to add or update restaurant staff records.  
  + **Input:** Staff ID (for updates), name, role (e.g., Manager, Waiter, Delivery Coordinator).
  + **Output:** Confirmation message with Staff ID.
* **FR7.2:** The system shall allow assignment of delivery partners to area codes by staff.  
  + **Input:** Staff ID, Delivery Person ID, area code.
  + **Output:** Confirmation of assignment.

### **8. Report Generation**

* **FR8.1:** The system shall generate daily/weekly/monthly reports on orders and revenues.  
  + **Input:** Date range, report type (orders/revenue/delivery performance).
  + **Output:** report in tabular or graphical format.