

# MINI PROJECT USER REQUIREMENT SPECIFICATION

**PES Canteen Pre-Booking System**

**SEMESTER: 5**

**SECTION: A**

**TEAM NUMBER: 23**

**TEAM:**

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## **1.Introduction**

### **Purpose Of The Project**

The primary purpose of the project is to address key challenges faced in the PES college canteens. These challenges include alleviating overcrowding, improving efficiency, and enhancing the overall canteen experience for both students and staff. By implementing a canteen pre-booking system, the project aims to:

**Reduce Overcrowding:** By allowing users to pre-order food, the system aims to reduce long queues and overcrowding in the canteens during peak hours.

**Save Time:** Users can save valuable time by pre-booking their meals, minimizing waiting times and allowing for quick and convenient meal pickups.

**Enhance Ordering Convenience:** The system will make it easier for users to browse menus, place orders, and make payments through a user-friendly interface, accessible via web or mobile devices.

**Improve Canteen Management:** Canteen staff will benefit from streamlined order processing and better inventory management, leading to increased efficiency and reduced wastage.

### **Scope of the Project**

The project encompasses the development and implementation of a comprehensive canteen pre-booking system tailored to PES college's specific needs. It includes:

- **User Registration and Authentication:** Secure user registration and login processes.
- **Canteen Management:** Updating canteen details and staff management.
- **Menu Management:** Adding, updating, and removing menu items.
- **Ordering and Order Management:** Order placement, tracking, and management.
- **User Account Management:** Profile updates and order history viewing.

## **2. Project Description**

### **Project Overview:**

The canteen pre-booking system facilitates a seamless experience for both users and canteen staff. Users can browse the menu, place orders, and make payments online. Canteen staff can manage orders efficiently and maintain an up-to-date menu.

### **Major Project Functionalities:**

- User Authentication: Secure login and registration for users and staff.
- Menu Updates: Real-time menu updates for users and staff to view.
- Order Placement: Intuitive interface for users to place orders.
- Order Tracking: Users can track the status of their orders in real-time.
- Staff Management: Canteen staff can manage their profiles and roles.

## **3. System Features and Functional Requirements**

- **System Feature 1: User Registration and Authentication**

### **Functional Requirement:**

Entities: User

Input: User's Name, Email, Phone, Password

Process:

Users provide registration details.

System authenticates users during login.

- **System Feature 2: Canteen Management**

### **Functional Requirement:**

Entities: Canteen, Staff

Input: Canteen details, Staff information

Process:

Staff can update canteen details.

Staff profiles are stored for management.

- **System Feature 3: Menu Management**

Functional Requirement:

Entities: Menu Item

Input: Menu item details (name, description, price)

Process:

Staff can add, update, or remove menu items.

- **System Feature 4: Ordering and Order Management**

Functional Requirement:

Entities: Order, Order Item

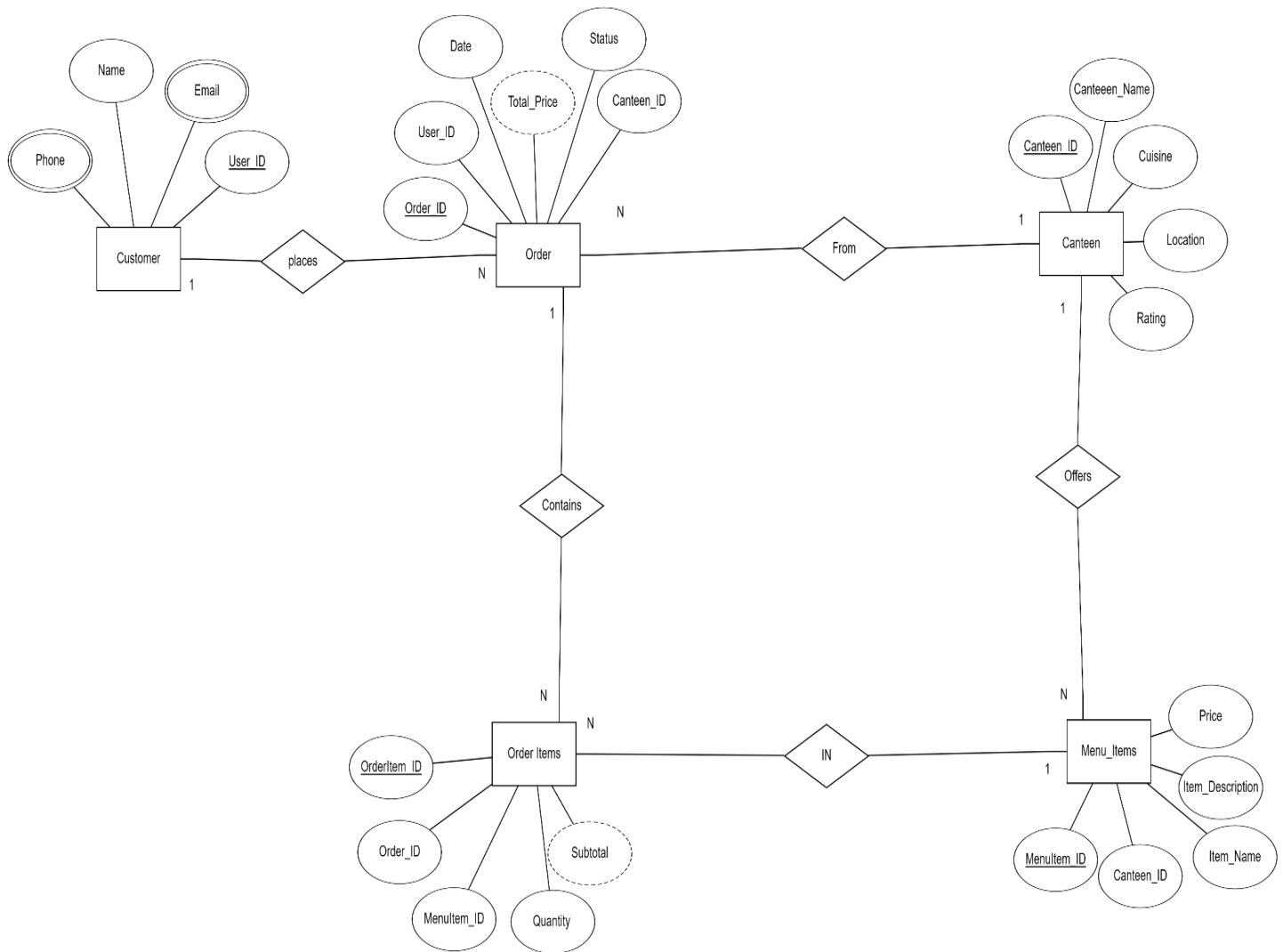
Input: Selected items, quantities, user details

Process:

Users place orders; orders are recorded and processed.

Staff manages orders for processing and delivery.

## 4.E .R Diagram



## 5.Relational Schema

