

Business Requirements (SCL Project Task 10):

Document both functional and nonfunctional business requirements for the Canteen Ordering System, outlining specific features, user interactions, and performance expectations.

Functional Requirement Document:

Title: User Registration and Authentication:	ID: FR001	Priority Level: high
Purpose: Defines specifications for user registration and authentication to ensure secure system access.		
Description: User Registration: Users provide their name, company email, employee ID, and password. System validates email and ID uniqueness. Successful registration triggers a verification email. User Authentication: Registered users log in with email and password. Failed logins trigger security measures. Successful authentication grants system access.		
Acceptance Criteria: Users' complete registration with required details. Unique email and ID validation during registration. Verification email sent upon successful registration. Registered users log in with email and password. Password complexity enforced during registration and login. Security measures for failed logins. Password reset for forgotten passwords. Clear error messages for login and registration.		
Dependencies: Relies on system architecture and user database. Requires access to a secure email service.		

Title: Menu Display and Selection:	ID: FR002	Priority Level: high
<p>Purpose: The purpose of this functional requirement is to outline the specifications for the Menu Display and Selection module within the system. This module enables users to view the menu, select items, and place orders.</p>		
<p>Description: The Menu Display and Selection module includes the following functionalities.</p> <p>Menu Display: Users can access an up-to-date menu. The menu includes a list of available dishes in the canteen along with prices. Users can view menu items by categories (e.g., appetizers, main courses, beverages).</p> <p>Item Selection: Users can select items from the menu and add them to their cart. The system should display detailed information about each item (e.g., ingredients, portion sizes). Customization: Users can customize their orders (e.g., specify ingredients, portion sizes, special requests) before adding items to the cart.</p> <p>Cart Management: Users can view their cart and the list of selected items. Users can modify or remove items from the cart as needed.</p> <p>Order Confirmation: Users can proceed to checkout, confirming their selected items. Once an order is confirmed, users cannot cancel or modify it.</p>		
<p>Acceptance Criteria: Users can access the menu, and it displays all available dishes with prices. Users can select items from the menu and add them to their cart. Detailed item information (e.g., ingredients, portion sizes) is displayed to users. Users can customize their orders before adding items to the cart. Users can view their cart, modify item quantities, or remove items. Users can proceed to checkout, confirming their selected items. Once an order is confirmed and checked out, users cannot cancel or modify it.</p>		
<p>Dependencies: The Menu Display and Selection module depends on the availability of the menu database containing dish information and prices. It relies on a secure user authentication system for user access and cart management.</p>		

Title: Order Placement	ID: FR003	Priority Level: high
<p>Purpose: The purpose of this functional requirement is to define the specifications and behavior for the Order Placement module within the system. This module allows users to place orders for meals and beverages.</p>		
<p>Description: The Order Placement module includes the following functionalities: Ordering Window: Users can place orders during specified hours (e.g., until 12 PM for lunch). The system should display the ordering window timings clearly. Selection of Pickup Time: Users can select a preferred pickup time for their orders. The system should provide time slots for selection (e.g., 12:15 PM, 12:30 PM). Order Confirmation: Users receive an order confirmation after successful placement, including order details and pickup time. Order Modification and Cancellation: Users can edit their orders (e.g., change quantities, remove items) before confirming. Users can cancel orders within a reasonable time frame before the chosen pickup time.</p>		
<p>Acceptance Criteria: Users can place orders during specified hours (e.g., until 12 PM for lunch). Users can select a preferred pickup time for their orders from available time slots. Users receive an order confirmation after successfully placing an order, including order details and pickup time. Users can edit their orders before confirming, with changes reflected in the order confirmation. Users can cancel orders within a reasonable time frame before the chosen pickup time.</p>		
<p>Dependencies: The Order Placement module relies on the availability of the menu database with current dish information and prices. It depends on the User Registration and Authentication module to identify and authenticate users. The system clock is required to accurately display the ordering window timings and time slots.</p>		

Title: Order Management	ID: FR004	Priority Level: high
Purpose: The purpose of this functional requirement is to outline the specifications and behavior of the Order Management module within the system. This module is responsible for handling and tracking user orders.		
Description: The Order Management module encompasses the following functionalities: Order Tracking: The system should track the status of each order, including "pending," "in preparation," "ready for pickup," and "delivered." Order Fulfillment: Orders marked as "in preparation" are sent to the kitchen or canteen staff for meal preparation. The system assigns orders to specific staff members or stations for efficient processing. Delivery Coordination: For orders with delivery requests, the system coordinates with delivery personnel to ensure timely and accurate delivery to user workstations. Order Completion: When an order is ready for pickup or has been successfully delivered, the system updates the order status accordingly. Order History: The system maintains a history of all past orders for reference and reporting purposes.		
Acceptance Criteria: The system accurately tracks the status of each order (e.g., "pending," "in preparation," "ready for pickup," "delivered"). Orders marked as "in preparation" are directed to the appropriate kitchen or staff members for meal preparation. For orders with delivery requests, the system coordinates timely and accurate deliveries to user workstations. Order statuses are updated correctly when orders are ready for pickup or have been successfully delivered. The system maintains a complete and accessible order history for reference and reporting.		
Dependencies: The Order Management module depends on real-time communication with kitchen or staff members for order fulfillment. For delivery coordination, it relies on the availability of delivery personnel. Order data is interlinked with the menu, user accounts, and user preferences in the system.		

Title: Delivery Request & Management	ID: FR005	Priority Level: high
<p>Purpose: The purpose of this functional requirement is to define the specifications and behavior of the Delivery Request & Management module within the system. This module facilitates the coordination and execution of meal deliveries to user workstations.</p>		
<p>Description: The Delivery Request & Management module includes the following functionalities: Delivery Request Submission: The Canteen Manager can submit delivery requests for specific user orders. The requests include details such as the order ID, user details, and delivery location. Delivery Assignment: Once a delivery request is submitted, the system assigns the delivery task to a designated delivery personnel. Delivery Execution: The assigned delivery personnel pick up the order and deliver it to the user's designated workstation within a specified time frame. Status Tracking: The system tracks the status of each delivery request, including "assigned," "in progress," and "completed." Feedback Collection: Users can provide feedback on the delivery process, allowing for continuous improvement.</p>		
<p>Acceptance Criteria: The Canteen Manager can submit delivery requests, including order details and delivery location. The system assigns delivery tasks to designated delivery personnel. Delivery personnel successfully pick up and deliver orders to the user's designated workstation within the specified time frame. The system accurately tracks the status of each delivery request (e.g., "assigned," "in progress," "completed"). Users can provide feedback on the delivery process, and the system collects and stores this feedback for analysis.</p>		
<p>Dependencies: The Delivery Request & Management module depends on real-time communication with delivery personnel for task assignment and status updates. It relies on the availability of delivery personnel and their coordination with the order fulfillment process. Order and user data are interlinked with this module for accurate assignment and delivery location details.</p>		

Title: Payment and Salary Deduction	ID: FR006	Priority Level: high
<p>Purpose: The purpose of this functional requirement is to specify the functionality and behavior of the Payment and Salary Deduction module within the system. This module handles payments for user orders and ensures that the cost is deducted from employees' salaries.</p>		
<p>Description: The Payment and Salary Deduction module includes the following functionalities: Salary Deduction Enrollment: Users can enroll in the salary deduction program, which allows the system to deduct the cost of orders directly from their salaries. Order Cost Calculation: The system calculates the total cost of orders placed by each user during the month. Monthly Payroll Deduction: At the end of each month, the system deducts the total order cost from each enrolled user's salary. Payment Confirmation: Users receive payment confirmation for each deduction, including the deducted amount and a summary of orders. Payment Records: The system maintains records of all payment transactions for reference and auditing.</p>		
<p>Acceptance Criteria: Users can enroll in the salary deduction program, providing necessary details. The system accurately calculates the total cost of orders placed by each user during the month. At the end of each month, the system correctly deducts the total order cost from each enrolled user's salary. Users receive payment confirmation for each deduction, including the deducted amount and a summary of orders. The system maintains complete and accessible payment records for reference and auditing.</p>		
<p>Dependencies: The Payment and Salary Deduction module depends on user enrollment and order data to calculate deductions accurately. It relies on the availability of a secure payroll system for salary deduction coordination. Access to the user database and order history is essential for accurate cost calculation and record-keeping.</p>		

Title: Feedbacks Submission	ID: FR007	Priority Level: high
<p>Purpose: The purpose of this functional requirement is to specify the functionality and behavior of the Feedback Submission module within the SCL Corporation system. This module allows users to provide feedback on various aspects of the system and canteen services.</p>		
<p>Description: The Feedback Submission module includes the following functionalities: Feedback Categories: Users can select from predefined feedback categories, such as food quality, delivery experience, and overall satisfaction. Feedback Form: Users fill out a feedback form, providing comments and suggestions related to the selected category. Users have the option to attach additional comments or notes. Submission Confirmation: After submitting feedback, users receive a confirmation message acknowledging the successful submission. Feedback Storage: The system stores feedback data, including category, comments, timestamp, and user information, for analysis and reporting. Analysis and Reporting: The system generates reports and analytics based on the collected feedback to assess the system's performance and identify areas for improvement.</p>		
<p>Acceptance Criteria: Users can select from predefined feedback categories when providing feedback. The feedback form allows users to input comments and suggestions within the selected category. Users receive a confirmation message after successfully submitting feedback. Feedback data, including category, comments, timestamp, and user information, is stored for analysis and reporting purposes. The system generates reports and analytics based on the collected feedback to assess performance and identify areas for improvement.</p>		
<p>Dependencies: The Feedback Submission module depends on user accounts and authentication for feedback attribution. It relies on the availability of a feedback database for data storage and retrieval. Access to the reporting and analytics components of the system is essential for generating feedback-related reports.</p>		

