**SOFTWARE REQUIREMENTS AND SPECIFICATIONS**

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**i. INTRODUCTION**

SRS stands for Software Requirement Specification, which is a document that describes the expected behaviour of a software system. Functional requirements and non-functional requirements like performance goals and quality attributes are documented here.

The purpose of this SRS is to provide a detailed overview of the SmartCanTeen project — a digital platform for college canteens that enables students to pre-order meals, track orders, and make payments online. It aims to simplify food ordering within the campus and improve overall efficiency for both users and administrators.

**ii. OVERALL DESCRIPTION**

Product Perspective

This product is a web-based application that can be accessed using any modern browser with an internet connection. The system uses a database to manage user data, orders, and canteen inventory.

Product Functions

1. Users can register and log in.

2. Users can browse the menu and place orders.

3. Users can cancel or modify orders before preparation begins.

4. Users can view past orders and transaction history.

5. Users can make payments through integrated gateways.

6. Admins can add/edit/delete menu items.

7. Admins can view and manage user orders.

8. Admins can track order status and update accordingly.

9. Admins can manage user profiles and reports.

User Characteristics

• Multi-user support: both users and admins.

• Users must register with valid credentials before accessing services.

• Basic familiarity with web-based systems is assumed.

General Constraints

1. Any modern browser (Chrome, Firefox, Edge) can access the application.

2. The application should be user-friendly and responsive.

3. Internet connection is required for full functionality.

Assumptions

1. Users will have access to internet-enabled devices.

2. Admins are responsible for maintaining menu updates and order tracking.

**iii. SPECIAL REQUIREMENTS**

Hardware Requirements

• Processor: 1 GHz or higher CPU

• Hard Disk: 500 MB of free space

• RAM: Minimum 512 MB

• Display: 5.5 inches or larger screen

Software Requirements

• Operating System: Windows 7 and above / Linux

• Web Server: XAMPP

• Programming Language: PHP

• Web Browser: Chrome / Firefox / Edge

• Database: MySQL

• IDE: VS Code / Notepad++

**iv. FUNCTIONAL REQUIREMENTS**

The system is divided into two main modules:

a. User Module

• Register: Users can register to the system using email and password.

• Login: Registered users can log in securely.

• Browse Menu: View available items with details and prices.

• Place Order: Select items, set quantity, and confirm order.

• Cancel Order: Cancel order before it is marked “In Preparation”.

• Track Order: Real-time status updates on placed orders.

• View History: View past orders and payments.

• Make Payment: Pay via online methods (UPI, cards, etc.).

b. Admin Module

• Login: Admin logs in using secure credentials.

• Manage Menu: Add, edit, or remove menu items.

• View Orders: View and manage incoming orders.

• Update Status: Change order status (Pending, Preparing, Ready, Delivered).

• View Users: Access details of registered users.

• Logout: Secure logout from the admin dashboard.