**INTRODUCTION**

**1.INTRODUCTION**

**i. INTRODUCTION OF THE SYSTEM**

SmartCanTeen is an online food ordering system specifically for the Canara College canteen that enables meal pre-ordering for students and staff with ease. The system increases convenience as it allows users to browse the menu, order ahead of time and pay through digital means.

In a busy college setting, queues and waiting at the canteen tend to cause delays and inefficiencies as a result of long waiting periods. SmartCanTeen overcomes these issues through the application of technology to canteen management, making ordering food smooth, time-saving, and convenient.

The site focuses on ease of use, security, and effectiveness, allowing students to pre-order, monitor their orders, and engage in safe online transactions. With the automation of the canteen's business process, SmartCanTeen eliminates human errors, streamlines order processing, and enhances the entire dining experience.

**a. Project Title**

SmartCanTeen: Online Food Ordering System for Canara College Canteen

**b. Category**

Web-based application

**c. Overview**

In the modern age of digitalization, efficiency and accessibility are major contributors to a better college life. The conventional food ordering process in canteens usually involves long queues, waiting times, and disorganized orders, causing student discontent.

SmartCanTeen transforms the ordering process in canteens into an efficient online system where customers can:

• See the daily menu.

• Pre-book meals at their own convenience.

• Pay online via secure gateways.

This automated food ordering system minimizes waiting time, increases customer satisfaction, and streamlines the canteen workflow, making it more efficient and well-organized.

**ii. BACKGROUND**

**a. Introduction of the College Canteen System**

The Canara College canteen is used by many students every day. Yet, the existing manual ordering mechanism frequently results in queues, order mistakes, and delays. In an effort to correct these inefficiencies, the SmartCanTeen system is presented as a contemporary, technology-based system that enables students to pre-order their food, decongesting the place and enhancing the efficiency of the service.

**b. Brief Note on Existing System**

The conventional canteen system is based on manual ordering, where students actually line up to choose and pay for food. This process has a number of disadvantages:

• Long waiting times, particularly during busy periods.

• Manual mistakes in order processing.

In order to overcome these issues, SmartCanTeen proposes a digital, automated system that offers:

• Efficient order management through an online portal.

• Minimized waiting times with pre-ordering.

• Integrated payment gateways for cashless transactions.

**iii. OBJECTIVES OF THE SYSTEM**

The primary goal of SmartCanTeen is to revolutionize the canteen experience through a digital food booking system that streamlines meal ordering, minimizes crowds, and optimizes operational efficiency.

**Key Objectives:**

1. Minimize waiting times through pre-ordering of meals.

2. Optimize order management through an integrated digital queue system.

3. Increase user convenience through a mobile-friendly interface.

4. Enable secure payment via digital payment integration.

**iv. SCOPE OF THE SYSTEM**

1. SmartCanTeen is a web application for students and faculty members of Canara College.

2. The system provides menu browsing and ordering options online.

3. Ordering can be made digitally by payment gateways.

4. Canteen staff can handle orders with ease through an admin dashboard.

**v. SYSTEM ARCHITECTURE**

The SmartCanTeen architecture is in a three-tier system, and it includes:

• Frontend (User Interface): Student registration, login, menu browsing, order placement, and order tracking.

• Backend (Server & Database): Order processing, payment handling, and order status updation.

• Admin Dashboard: Handling orders, menu updation, and payment tracking by canteen staff.

**vi. END USERS**

**Admin Role:**

• Manage the menu and food items available for ordering.

• Process and confirms order statuses.

• Manage payments and refunds.

**User Role:**

• Register and login to the platform.

• Browse the menu and order.

• Pay using secure payment gateways.

**vii. SOFTWARE USED**

1. Web Technologies: HTML, CSS, JavaScript.

2. Backend Development: PHP.

3. Database: MySQL.