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Campus Eatery

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Abstract: The traditional approach utilized in canteens has several flaws, and the way they are currently handled wastes a lot of time. Everything in a canteen is done by hand. Taking cash, computing credit, and keeping credit records manually is no longer an efficient way to run a firm. A cafeteria management app is proposed as a solution to this problem; it will be an online platform where users may make orders from their institution's office canteen without having to physically visit the canteen.

Key Words: Food, Ordering, Menu, Recipes, Android App

I. INTRODUCTION

College canteens already have a system where customers must wait in line to pay for meals during a set break period. But this causes problems since everyone rushes to the cafeteria at the same time, which is inconvenient for the students as well as the workers running the canteen. Furthermore, some kids might not be able to eat or might wind up squandering their food owing to time restrictions. The Canteen Management system was created to simplify the procedure in order to handle these issues. With this approach, students may use the "Campus Eatery" app on their phones to place advance meal orders. In order to access the e-menu and make payments, users must enter their college ID. The college can keep an eye on canteen transactions using this way and identify any instances of fraud.

An alert on an order is sent to the culinary staff as soon as it is placed. The canteen system has been digitalized, which enhances service delivery and cuts down on wait times. Customers may choose and pay for the food items they want from the extensive list of options on the e-menu card. The order is communicated to the canteen workers instantly, enabling them to prepare the dish ahead of time. Customers don't have to wait in line to pick up their meal. The web system makes it simple to add and remove menu items. Regular clients' information is kept in the database and can be identified. In the end, the Canteen Management System transforms the conventional method of canteen management, resulting in a more effective and convenient procedure.

II. LITERATURE SURVEY

2.1 Online Food Ordering System for College

The college canteen's manual procedure has been replaced with an online meal ordering system in an effort to resolve problems and lessen burdens. Designed with academic demands in mind, it guarantees error-free processes by reducing mistakes and displaying error warnings when input is incorrect. It is user-friendly because formal client data is not required. This system lets users concentrate on work instead of maintaining records by promising error-free, safe, dependable, and quick administration. In the end, it maximizes the organization's use of its resources.

2.2 Automation System Using Android

With the use of computerized tools and software, the Canteen Management System seeks to automate manual processes, making data processing and storage simple, safe, and error-free. This approach simplifies record-keeping and frees up users' time to work on other projects by using widely accessible hardware and software. It guarantees essential data accessibility and maximizes resource efficiency by removing duplicate entries. In the end, it improves customer service delivery and performance.



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III. EXISTING SYSTEM

The current canteen management approach frequently uses manual procedures including cash transactions, handwritten orders, and paper-based record-keeping for sales, inventory, and customer information. These techniques are labor-intensive, prone to mistakes, and may result in ineffective supply management, sales monitoring, and customer record-keeping.

A coupon is provided if there isn't any change available at the moment; this coupon has to be used at the register for your subsequent transaction. The canteen management system in place now is labor-intensive, error-prone, and inefficient. The conventional method of running canteens wastes a lot of time. All tasks, including cash handling, computation, and credit record keeping, are completed by hand, which is an outdated and ineffective method of conducting business.

IV. PROPOSED SYSTEM

As it allows consumers to put orders directly to the kitchen, this technology offers several benefits in terms of effective queue management by reducing waiting times. It also makes it easier to schedule orders ahead of time, which adds even more ease. By adding a card payment option, a lot less time is spent paying bills and making modifications at the payment counter. This approach guarantees user-friendliness in addition to time savings.

4.1 Overview

The proposed app works in the following manner:

- Initially, the user must register on the application.
- Depending on how much the user pays, the admin modifies the user's wallet.
- The user will be sent to the app's main page after logging in or registering.

• There will be several alternatives on the home page, including drinks, snacks, and vegetarian and non-vegetarian main courses.

• Additionally, the user's details may be changed and the cart and history can be viewed on the main page.

• When you click on food products, they are immediately put to your cart, where you can complete your purchase at that point.

- If the entire amount of your order is less than the amount of money in your online wallet, the order won't be placed.
- If the wallet has sufficient amount the order is placed and user is notified.
 - 4.2 Functionalities

• The System makes searching capabilities available depending on a number of variables. such Orders, Products, Quantities, Reports, Canteen, and Users.

• Additionally, the order details, availability details, order details, payment data, and user details are managed by the proposed system.

- Displays details and descriptions of the orders, merchandise, money, and users for the canteen.
- To improve the canteen management's efficiency.
- It deals with keeping an eye on goods transactions and information.
- Improved record editing, addition, and updating leads to appropriate resource management in canteen data.

V. FLOW CHART

5.1 Login/ Sign up Flow Chart

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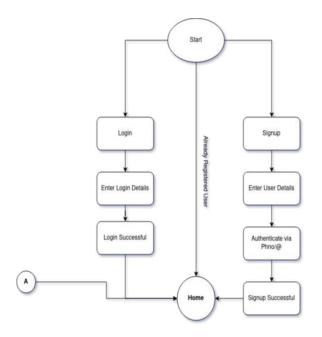
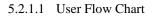
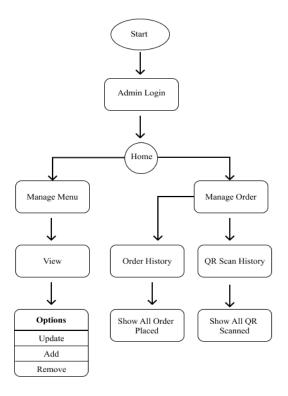
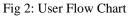


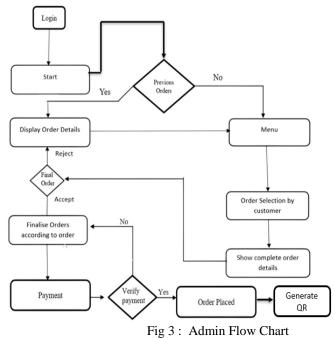
Fig 1: Login/ Sign up Flow chart







5.3 Admin Flow Chart



VI. CONCLUSION

In conclusion, there are several advantages to using a canteen management system. It considerably raises service delivery standards and transforms operational efficiency by guaranteeing smooth operations, accurate record-keeping, and prudent resource utilization. The automation and technological integration of the system allow users to focus on important activities related to their main duties while also increasing data accessibility and manipulation capabilities. Additionally, it proves to be a priceless tool for streamlining canteen operations and creating a better service environment that successfully meets the demands of all parties involved. The program also significantly reduces the effort for canteen staff, which adds to the system's increased effectiveness and efficiency.

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