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# FOOD ORDERING MOBILE APPILICATION

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## 1.1 ABSTRACT

The Android-Based Canteen Management System (CMS) stands as an innovative solution tailored for the efficient administration of educational institution canteens. This mobile application offers a user-centric interface designed to streamline operations, ensuring seamless interaction between canteen managers, faculty, and students. As an Android platform, it facilitates an intuitive experience, empowering users to access and manage canteen functionalities from their handheld devices. The system encompasses robust features, including real-time inventory monitoring, order processing, transaction tracking, and diversified payment options, ensuring convenience and efficiency in every transaction. Through its integration with Android device capabilities, the CMS app harnesses push notifications to keep users informed about order status updates and important announcements. This system's mobility and adaptability mark it as a pivotal tool for enhancing the canteen experience, optimizing operational workflows, and fostering a user-friendly environment within educational institutions.

**Keyword:** Module, Android, Application, Food.

## 1.2 OVERVIEW OF THE PROJECT

Android Studio is the official IDE for android application development. It works based on IntelliJ IDEA, You can download the latest version of android studio from Android Studio 2.2 Download, If you are new to installing Android Studio on windows, you will find a file, which is named as android-studio-bundle-143.3101438-windows. exe. So just download and run on windows machine according to android studio wizard guideline. If you are installing Android Studio on Mac or Linux, You can download the latest version from Android Studio Mac Download, or Android Studio Linux Download, check the instructions provided along with the downloaded file for Mac OS and Linux. This tutorial will consider that you are going to setup your environment on Windows machine having Windows 8.1 operating system.

## SYSTEM REQUIREMENTS

## 2.1 INTRODUCTION

Introducing our food ordering mobile application's system requirements! To ensure optimal performance and user experience, our app is designed to run smoothly on both Android and iOS devices. Here are the basic system requirements for using our app:

**2.2 SOFTWARE REQUIREMENTS**

The software requirements for this project encompass the applications, platforms, and tools needed to develop, deploy, and operate the system efficiently. Here's an overview of the key software requirements:

Operating System: Windows 7 Ultimate
Front End: HTML, CSS, BOOTSTRAP
Backend: SQL
Language: PHP

**2.3 HARDWARE REQUIREMENTS**

Hardware requirements for this project vary depending on factors such asthe scale of the Restaurant, the number of users, the complexity of the software, and the anticipated workload. Here's a general outline of hardware requirements:

Processor: Intel Dual Core
RAM Capacity: 2 GB
Hard Disk: 10 GB
Mouse: Logical Optical Mouse
Keyboard: 104 Keys
Monitor: 16 inches

**SYSTEM DESIGN**

**3.1 EXISTING SYSTEM**

**Manual Ordering:**

Customers place orders manually by filling out paper order forms or verbally communicating with canteen staff. Order accuracy depends on the clear communication between customers and staff, which can lead to errors and misunderstandings.

**Cash Transactions:**

Payments are made in cash, requiring customers to carry physical currency. Handling cash transactions may lead to errors in change calculation and increases the risk of theft.

**Limited Menu Visibility:**

Customers may have limited access to the canteen menu, often relying on physical menu boards or printed menus that may not be up-to-date.

**Queue and Waiting Times:**

Manual processing of orders and payments can result in long queues during peak hours, leading to increased waiting times for customers.

**DISADVANTAGES**

The disadvantages of existing system are listed as follows:

- Poor User Interface
- Order Inaccuracy
- Technical Issues
- Lack of Personalization

**3.2 PROPOSED SYSTEM**

The proposed Canteen Food Ordering System Mobile Application aims to address these issues by introducing a user-friendly mobile application that facilitates digital ordering, cashless transactions, real time menu updates, and order tracking. This system leverages modern technology to streamline the canteen food ordering process, enhance customer experience, and improve overall operational efficiency. The subsequent phase of this

project will delve into the design and implementation details of the mobile application, ensuring a seamless transition from the existing system to the proposed solution.

**ADVANTAGES OF PROPOSED SYSTEM**

- Intuitive User Interface
- Order Accuracy
- Reliable Performance
- Personalized Recommendations
- Efficient Customer Support

**CONCLUSION**

The development and implementation of a food ordering application represents a significant advancement in the integration of technology within the food service industry. By providing a platform for streamlined order placement, real-time tracking, and efficient menu management, the application significantly enhances the dining experience for customers and operational efficiency for restaurant owners. However, it is crucial to acknowledge and address the associated challenges, such as potential technical issues, security vulnerabilities, and the risk of depersonalizing customer interactions. For restaurants considering this technology, a balanced approach that leverages the benefits of the application while mitigating its drawbacks will be key to success. By continually refining the system, maintaining high security standards, and ensuring a human touch in customer service, restaurants can utilize this technology to not only survive but thrive in the competitive market landscape