

# Canteen Management Using Intelligent Feedback System

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**Abstract**—The purpose of the canteen management system is to automate the services provided by the canteen manager, and to make the work easy for them. This system will help the manager to keep a track of the bills of the customer, the app allows to make the payments using various online methods, and allows the user to check the menu digitally via an android application. The application also contains a system which analyses all the customers' reviews and sends a one word review of the food to the manager, which allows them to judge the food by just reading a single word. The application will also keep a track of the customers' bills and generate a monthly bill of the same and then send it to the manager. This application will allow the simplification and digitalization of the canteen management which was traditionally done on books.

**Keywords**—Sentiment Analysis, Naïve Bayes, Canteen management system.

## I. INTRODUCTION

This system is developed to reduce the human effort going into managing huge and small canteens as well by using record books and by maintaining each person's tab. This application will allow the customer to pay the bills online and also to place orders through the application. Traditional systems require a lot of human effort in maintaining huge canteens of big companies and colleges. This application will make it easy for a canteen manager to manage the canteen through the application itself. This application will also avoid human error to a huge extent, in huge infrastructures the management of the canteen is vulnerable to human errors, which can be easily avoided by implementation of this system. This system also will allow the manager to focus on other things more important than the canteen management and will result in proper and efficient management of the canteen, only due to undivided focus on the other works or tasks. The problem of physically going to the canteen or calling the canteen person for the food is resolved by accepting online orders, the customer could also track the status of his order. Receiving track of payments of a large number of customers is prone to errors, this also can be resolved as the user will be sent bills to his mobile application itself and he can pay those bills easily through any online payment methods, through the mobile application itself. The canteen manager often doesn't know how the food tasted at times, this application will analyze the customer reviews and will send a single word review of the food to the canteen manager which will allow the

manager to notify the chef about the food he's making to suggest some improvements. The menu of the canteen will also be listed in the mobile application which will enable the user to easily surf through that and order the desired item. This application is an user friendly system to overcome the human effort in managing the huge canteens of various institutions.

## II. OBJECTIVES

The objective of this system is to develop a user friendly design which can help the canteen manager to manage the canteen using this application more efficiently. This application will consist of a system to keep a track of the customers' bills over a period of time, the payment of the bills through various online payment methods. This application will consist of a digitalized menu for the customer and a special menu for the customer which will be updated daily on the orders of the chef. This application will allow the user to place orders from the mobile application itself and also can track the status of the order. This application will contain a special feature to analyze reviews of the customers and to give a single word review of the food to the manager of the canteen. The list of summarized objectives is as follows:

- Payment Gateway is provided.
- Sentiment analysis of the reviews is done.
- Special Daily menus will be provided on the screen.
- Bill tracker will be provided to keep a track of all your bills.
- Order status will be provided by the application.

## III. PROPOSED SYSTEM

### A. Use Case Diagram

Use case diagrams are commonly referred to as behaviour diagrams that are used to describe a series of actions that should or can be done by some system or systems in conjunction with one or more external system users. The use case diagram of the proposed system is given below, Fig.1 shows the appropriate use cases in form of a diagram, given below.

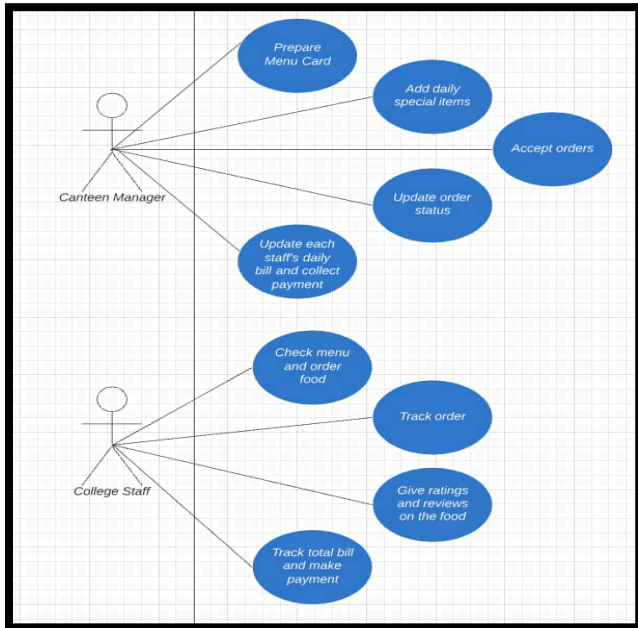


Figure 1. Use case diagram of the proposed system

B.

#### IV. CONCLUSION

The advantage of using a cloud based system is that the scale of a canteen does not make any difference. This system can be implemented on small as well as large scale canteen business. We can Have track of orders and we can cook the food based on customer satisfaction and we give feedback form after delivery of food in application so the Chef can cook according to customer satisfaction. Lastly we conclude on the note that, this application will be able to make the task of ordering food easy, this will also make management of the college canteen systematic and paperless, Overall review of food will be posted to the canteen manager time to time, bill records will be saved into the database which will make account keeping easy and paperless as well as accurate.

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