Smart Food Diary

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Abstract - Smart Food Diary enables the end-users to register online and select the food from the e-menu card and order food online by just selecting the food that the user wants to have using the android application. The results after selecting the food from the E-menu card will directly appear on the screen near the Chef who is going to cook the food for you. The system consists of an Android application.[6] By using this application, the work of the waiter is reduced. The benefit of this is that if there is a rush in the Vigyan Ashram, then there will be chances that the waiters will be unavailable and the users can directly order the food to the chef online by using this application. The user will have a username and a password, by using which they can login into the system. This infers that the employees and other peoples are the regular users of the Vigyan Ashram's Canteen.[5]

Key Words: Food Ordering, Android Application

1. INTRODUCTION

During breaks, there is a bustling in the Vigyan Ashram.Employees and other people have to wait in a queue before they can order, then wait another few minute for the food to be prepared, before they can pay and leave with their meals. Even more delays are caused if employees choose to pay with cash, as they have to ask for the price, pay, and wait for changes. Queuing takes a lot of time at the counter to the serving counter due to which the employees get late for their work. This time can be used for any other work that must be relevant. Both employees and other people, often wish to have a way to considerably reduce or get rid of this waiting time.

One solution to this problem is to have a system by which once the order gets placed it is directly displayed on a monitor in the kitchen. [8] This would avoid the time wasted at the serving counter when a server takes time to deliver previous orders before taking a new order and placing it in the kitchen.[7] Also, one can have a facility for placing orders in advance so that his/her order is kept ready just for the particular time he/she chooses. The time spent over tendering change can also be reduced by facilitating payments via e-wallet. Simplified Smart Food Diary functions by providing useful features, such as daily food expenses tracking, food requisition estimation and supporting cashless and paperless transactions. The required software is easily available and easy to work with.[7]

2. Literature Survey

Following are the research papers, we studied for our system:

[1] Annu Lambora and Kunal Gupta proposed a wireless menu card system. This is a personal digital assistance (PDS) system for the effective working of restaurants. PDA is wireless based system where customer can give the order from the tablets through an application from reserved table. Firstly, customer needs to register himself/herself through the application. Customer can see the menu on the tablet with the images and select the dishes. All selected dishes will get stored in the cart. From card user can give the conformation for dishes. Ordered food will directly go to the kitchen end, where the owner can see the customer order and proceed further.

[2] Rohith and others developed a technology that provides fast ordering system inside the restaurant using restaurant's Wi-Fi by giving internet access to the authenticated customers. As customer gets connected to the hotel Wi-Fi, a page gets displayed to enter table number for authentication purpose. During this time, he/she cannot access any sites other than hotel's menu page. [9] A unique password will be assigned and displayed on the LCD display mounted on respective table. As he/she completes the authentication, the menu page will be displayed on his/her phone, through which the customer can place the order. As the customer selects the dishes, it will be stored in the cart, from which he/she can verify again and modify the quantity details and then place the order. After placing the first order the network will allow the customer to access other sites. It also provides paperless billing system to the customer. [9]

[3] Lavine mall and Nihal Sheikh developed a "Canteen Management System Using RFID Technology Based on Cloud Computing". This system is much easier for ordering food through online and make the payment way easy and secure. It also provides a trustworthy way for storing records and keeping the money safe as mostly the payments are made

online via virtual money. This automation procedure is achieved by using radio frequency identification (RFID) card and cloud computing. Here the RFID tag is used to pay the money for food ordering.

[4] Adithya R, etal proposed "Online Food Ordering System". In this system the food menu is posted online. The customer can order his / her food online. This system is developed in such a way that customer can track the food items ordered. The system also offers a way for the customer to give feedback for the food items.

3. Proposed System

The proposed application aims to automate its existing manual system by the help of computerized equipment and fulfilling their requirements so, that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. Basically, the paper describes how to manage food and provide better service for the user.

Smart Food Diary is the system where employees and other people order their food and receive food in the Vigyan Ashram's canteen without any delay as they can directly go and collect what they ordered without waiting for a turn or waiting time. This system's main purpose is to accept the customer orders and satisfy the user requirements.

In this system, the employees need to fill all the registration details such as name, email, phone number etc. and OTP will be sent to their mobile number to login with the Vigyan Ashram's canteen.

The proposed "Smart Food Diary" is economically feasible because:

- The manual work will be greatly reduced
- Flexibility
- Easy to access the application
- The system will have GUI interface and very less user training is required to learn it.
- It fulfils the requirement of employees and other peoples.

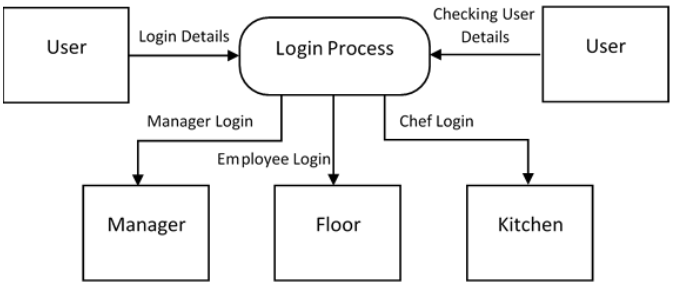

FIG. PROPOSED SYSTEM

4. Features

1. Customizable Menu

   The Smart Food Diary system is very helpful in saving time and doing more than one work at a time. It allows the administrator to create different menu items with full exactness, creation and addition of different items can be done at a time.

2. Order can be placed using personal android phones.

   The user(employees/peoples) can easily place order via their android phones and login, choose the menu and can place the order.

3. Simple user-interface

   The Android application will be giving a very user-friendly approach for all users.

4. Easy maintenance

   Smart Food Diary system is design in an easy way. So maintenance is also easy.

CONCLUSIONS

The objective of this paper is to review present canteen management system, identify improvements and their implementations in the current system to avoid the food wastage. It provides kitchen manager tool for recording data of food orders on daily basis and greatly lessens the load on the canteen's end, as the entire process of taking orders is automated and also reduces the manual work or manpower.

This system is convenient, user friendly, effective and easy thereby improving the performance of the Vigyan Ashram's canteen. This application saves the time of all employees and student. It is completely automated online food ordering system. This will help to avoid unnecessary food wastage.

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