ONLINE CANTEEN SYSTEM

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Abstract : The project online canteen system helps the users to book their food earlier. The users have to book their food on the e-menu card. As soon as they book their food the order will be sent to the chef for preparing it. The present system consists of the manual system that involves the paper work of the billing system and maintaining the files too. In the proposed system the payment is online and the e-menu will be available for the user. The users will have the username and the password through which they can book. This project will help in demonstrating the route from adapting materials to developing an online environment. This brings all necessities in one place that benefits both the user and the canteen owner smartly.

Keywords:- **e-menu, account, ordering, online payment**

INTRODUCTION

The online canteen system contains the e-menu cards that contains the details of the food. The user initially has to create an account for the utilization of the service. It will provide the list of different canteens and their various items menu list. The customer can select the desired item and can pay the amount through online payment gateway system. Immediately after booking the order, the canteen people will get the information of the order and they prepare the order. In the existing system there will be queues and the manual work load will be there. In the proposed system there is no need for the paper-work. The data can be stored in the database. The food will be ready in advance and the customers need not to wait near the delivery place. The digitalisation of the canteen system will be helpful in providing the better service to the users and the time consumption will be reduced. The languages used in this system are javascript, sql database, html and xml. Initially the menu will be entered by the admin to the site along with the price. The user can select can select particular item like in the four slots where there are admins for all the four slots. The updation and deletion of any item can be done. At last the user's feedback will be taken to improve the service and to make it available to everyone. The online system will help be helpful for the food makers to prepare the food as early as possible. As a result there will be quick serving to the customers. No queues can be formed for waiting of the food. The updation of the data to the database will be monitored by the admin. The user's data like recognising the regular users to the canteen will be done and sent to the database. The security of data is done by the encrypted format and server databases of the institution.

RELATED WORK

Functional Requirements:

Users of the online canteen system, namely canteen customers, must be provided with the following functionalities:

Create an account. Manage their account. Log into the system. Navigating the menu of canteen system according to the presence of items at that period of time(I). Select an item from the menu. Options to customize the selected items. Add an item to their current order. Reviewing the current order of customer after the modification. Providing option 'Remove' to discard the items which added to the current order. We can remove items in selected manner if needed customer can remove all items too. Providing payment details. Place an order by selecting the canteen. Customer will receive the confirmation in the form of an order number. We can check the preparation time by current order number.

Menu Management System

The menu management system is placing main role in the online canteen system. The menu management system will be operate only by the canteen employees and manager of the particular canteen. The menu will be managed according to the presence of items at that period of time. By managing in this manner the proper menu will be displayed to the users of the web ordering system. The menu management system managing and displaying the menu to the user by using graphical interface(VI). The menu management system afforded functions to the user with the ability to operate items, using a graphical interface: Add a new/update/delete item to/from particular category of the menu of the canteen. Add a new/update/delete option for a given food item. Update additional information such as description, photo, etc. for the given food item. Delete item if not present at that period of time and update menu immediately. It is compulsory to update menu after addition/deletion of items.

Order Retrieval System

The order retrieval system is one of the simplest and important part in the online canteen system. The Order Retrieval System functionally classified as three components. By these three components, the order retrieval system is being simple to operate. Like the menu management system(II), it is designed to be used and operated only by canteen employees and the manager of the particular canteen. The functions are : Retrieve new orders from the database and display the orders in an easily readable, graphical way. Mark an order which have been processed and remove it from the list of active orders. User Interface Specifications: Each and every component of the system. All these are described below.

Web Ordering System

The Users of web ordering system will connect with the application through a series of simple forms(IV). For Each category of food has own form associated with it which presents a drop down menu for choosing which specific item from the category should be added to the order.

Adding of an item to the order is done by a single button click. Users select which category of food they would like to order, and therefore which form should be displayed, by navigating a menu bar, an approach which should be familiar to most users.

Payment and delivery deals is done in a similar manner. The user is presented with a form and must complete the required fields, which include both drops down and text boxes, before checking out and receiving a confirmation number. Non-functional Requirements Performance Criteria Time: The time between the submission of order process between the customer and cashier in a canteen should be as minimum as possible. User-friendly: user interface should be kept simple and uncluttered. Since the different type of people Our canteen automation system should be more users friendly. The will interact with this process so our project should be very easy to them to understand. Flexibility: Our project should be so flexible that whenever we want to make changes in it very easily it can be done.

DESIGN TECHNIQUES

The design of the site has been done using the following technologies:- HTML, CSS, Ajax, Bootstrap, Angular JS, Java Oracle

ADVANTAGES

Extensibility: It should be able to accommodate the variations like: The different order should be handled easily. It should be an option for cash on delivery, pay through card between customer and canteen.

Portable: this project can be portable on any platform and available on websites easily and at a faster speed than others.

Reusable: All the customer web pages that are used for customer information should be easily get processed so that many customers can interact with us very easily and very fast without any information. Security

A high End security is provided is provided in payments and logins only College Staff and Students can be logged in.

IMPLEMENTATION

a.Admin

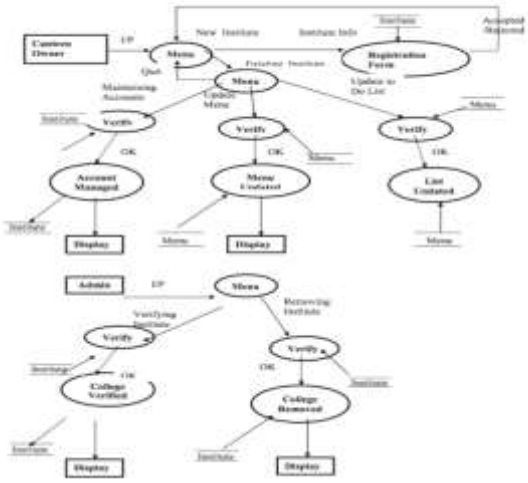

Fig 1 functional diagram of admin panel

The admin has the certain permissions for the maintanence of the menu and the list of the items to be updated. The control of the menu will be completely handled by the admin. Initially the items are entered by the admin to the list. Then they are added to the cart which nothing but the e-menu card. The account of the admin is managed by the institution. The menu card will be monitored by the admin. The admin's data will be stored in the database for the further reference. The functions of the admin is restricted by the institution. It follows a procedure. At first the entered items is checked and then verified by the institution. Then they are taken into the consideration in the menu. the accounts information will be managed in the form of data.

Fig 2 Home Page

The above is the homepage where the general elements like home, contact us , about us, services, login are present.

Fig 3 Admin sign up page of the system

Fig 4 Admin page with the functions allocated .

In the above Fig 3 the admin sign up page can be seen which is general activity for the registration as the admin.

In the Fig 4 the admin page with the login controller can be seen where we have options like Add dish, Update dish, View menu, View order to maintain the e-menu efficiently. The main functionality of the admin can be done from here. The type of food will be under different admins. It is like breakfast, lunch, snacks and dinner.

Fig 5 Adding items to the list

Fig 6 The list of menu being entered by the admin

The overall list can be viewed by the admin as the above fig where the item's details like price, id, status can be known. These four will help in monitoring the actions of the admin. It provides the easy accessing of the menu card to the user and the listing of the items can be done.

b.USER

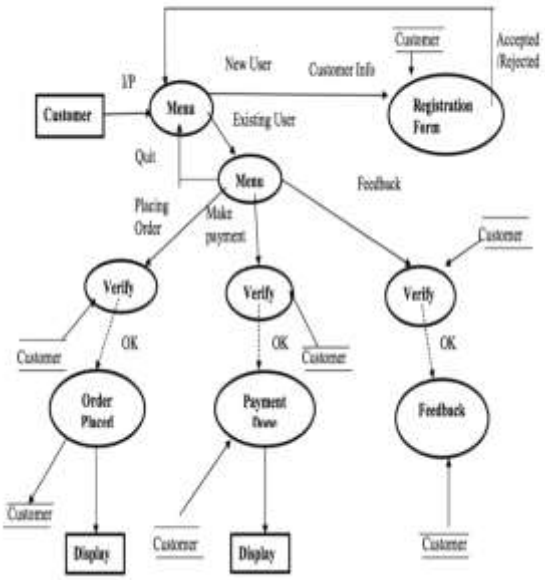

Fig 7 Functional diagram of user

The above figure is the functional diagram of the user or customer. Initially the user has to create the account to the database which is nothing but the signing up. Then the user can book the orders for food. The user account information will be stored in the cloud database. This will be controlled by the institution. For the recognition of the user different technologies can be used such as RFID. The three types of verification is done in three cases. First during the food ordering, secondly during the payment and

finally during the feedback. This will be for the security purpose to recognise and avoiding the misuse of the account. The feedback given by the user will be considered and will reviewed by the admin. For the better food providing by reviewing the previous feedbacks the admin can be able to provide the best food that is considered.

Fig 8 sign up page of the user

The sign up page for the user is shown above for the account creation.

Fig 9 Main page for the booking

The main page of the user has been shown as it contains four categories of the restaurants. These four has been containing of the types of food i.e. breakfast, lunch, snacks, dinner. Four admins will control these four restaurants. User can see all the four and could select according to his/her choice. The booking data also will be stored in the database as the reference for the admin where he could provide the better choice for the next time. This will be done by the cloud database storage as for the admin. The user can report in case of any issue. At last the feedback will be given that is for the analysing the type of food that most of the people prefers.

Fig 10 selection of the items

The selection of the items is done on displaying the types of food. After selecting the item is added to the cart where it is overall selected menu by the user and the price is also displayed.

Fig 11 display of the total price

The total price of the items will be displayed at the end. If any changes are there user can go back and check the order. The payment is done online.

FUTURE SCOPE

The present system depends on the online management. This can be improvised by the automation of the softwares. The data storing will takes time and it requires the manual observation. With the help of the automation it would store the data instantly. This will reduce the effort time by the manual observation. The updated data will be finalised and alerts time to time to the admin. The machine learning algorithms can also be used for the prediction of the most preferred item by the customers. The customers will give the feedback and this will be sent to the database. Using the machine learning algorithms these feedbacks will be analysed and preferred food item will be displayed to the regular users on the online system. The menu list can also be updated according to the admin's choice by the shortcut methods used in the learning algorithms. The wavenet technology will help in the recognition of the user. It is done by the voice recognition of the user where it does convert them into the small wavenets which on average final wave of the user's voice will be generated.

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 statisfaction.

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