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Online Food Order System

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Abstract--Nowadays people don't have much time to spend in restaurant by just there and waiting for the waiter to take their order. Many customer visits the restaurant in their lunch break and recess so they have limited time to eat and return to their respective office and colleges. So this software helps them to save time and order food whenever they want without calling the waiter again and again. As well as if the customer is a regular customer of the Restaurant then the customer gets 2% discount on every product they order. The only role in this process is of hotel manager. As customers are not much involved in it. The manger has to manage everything. As any restaurant manager who has ever been out of work knows, finding a job is no easy task. In general management of a restaurant, the restaurant manager plays a vital role. The restaurant managers undertake the responsibilities of the whole restaurant business. They manage with all departments for the smooth running of business. They handle a huge number of information at the same time during their work hours
Keywords - Waiter Service Provider, Kitchen Display, ***SMS Integration, Centralize Database.***

I. INTRODUCTION

Developing a Rapid Food Order *system* to promote a greater count of food lovers to splurge into the field of Restaurant. It integrates the benefits of an ordering food with the convenience of an online excitement and going with the technology, minus the commuting hazards and expenses. It will usher in the immense flexibility and sophistication in the existing manual platform structures, with the perfect blend of synchronous and asynchronous interaction. It provides a means of collaborative E-ordering for the customers. This online application enables the end users to register online, select the food from the e- menu card, read the E-menu card and order food online. By just selecting the food that the user want to have. The results after selecting the food from the E-menu card will directly appear in the screen near the Chef who is going to cook the food for you. By using this application the work of the Waiter is reduced and we can also say that the work is nullified. The benefit of this is that if there is rush in the Restaurant 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 be given a username and a password, by sing that every time a user logs in he/she gets 2% discount in the total bill. This implies that the customer is the regular user of the Restaurant.

Manual system involves paper work in the form of maintaining various files and manuals. Maintaining critical information in the files and manuals is full of risk and a tedious process. Including a framework showing how to apply Internet technology progressively as skills and confidence grow, the project demonstrates the route from adapting materials to developing an online environment

II. LITERATURE SURVE

A. Java Server Pages

JSP not only enjoys cross-platform and cross-Web-server support, but effectively melds the power of server-side Java technology with features of static HTML pages. JSP pages typically comprise of: Static HTML / XML components. Special JSP tags.

B. Optionally, Snippets Of Code Written In The Java Programming Language Called "Script Lets."

JSP Architecture The purpose of JSP is to provide a declarative, presentation-centric method of developing servlets. JSP pages are subject to a translation phase and a request-processing phase. The translation phase is carried phase is carried out only once, unless the JSP page changes, in which case it is repeated. The JSP engine itself typically carries out the translation phase, when it receives a request for the JSP page for the first time.

C. Servlets

A servlet is a java programming language class that is used to extend the capabilities of servers that host applications access via a request-response programming mode. Servlets are Java technology's answer Common Gateway Interface (CGI) Programming. They are programs that run on a Web server, acting as middle layer between request coming from a Web browser or other HTTP client and databases of applications on the HTTP server

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D. Servlet Life Cycle

The life cycle of a servlet is controlled by the container in which the servlet has been deployed. When a request is mapped to a servlet, the container performs the following steps.

If an instance of the servlet does not exist, the Web container Loads the servlet class.

Invokes the service ethos, passing request and response object

Creates an instance of the Servlet class.

Initializes the servlet instance by calling the init method.

E. Objectives Of This Project

To order food rapidly

To make it convenient for people who have limited time

Cost reduction

III. SYSTEM ARCHITECTURE

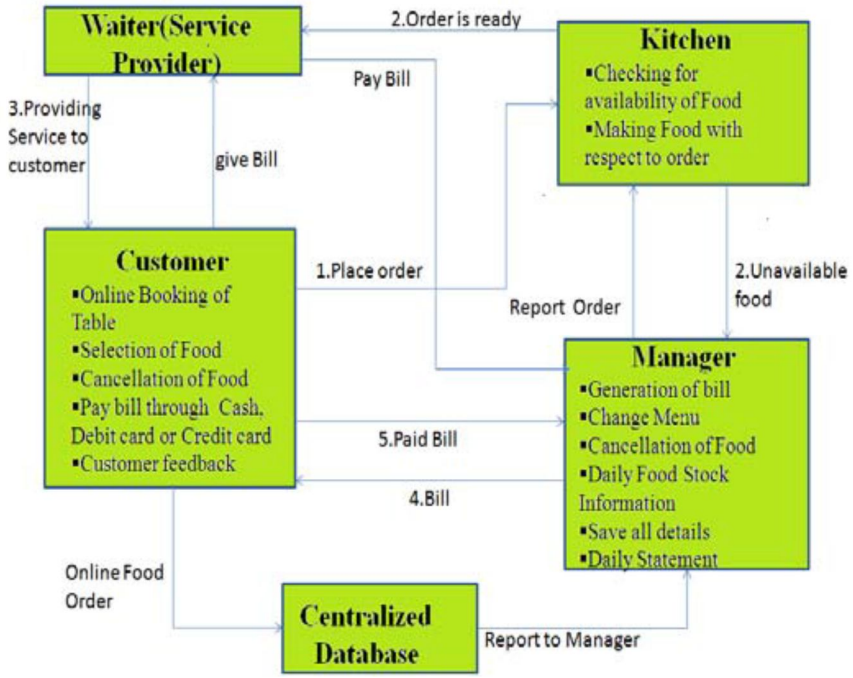


Fig: System Architecture

IV. SYSTEM MODULES AND SYSTEM DESIGN

The restaurant owner or manager will have authority to log the system and update the menu as per the availability of the dishes. The manager will also advertise the various offers of the day. Manager will dynamic add different categories of food. After arrival of customer in restaurant, he or she select the information and menu from tablet then this orders sent to the system over wireless network. The restaurant manager or owner and the kitchen staff will receive the ordered lists from the customer tablet.

The restaurant owner can update the order status into the system. The customer can also view the order status and he has authority to cancel the order. The whole application will already be installed and kept open on the tablets on the tables. Customer who is outside the restaurant will book table in restaurant or he will give order from his smart phone. The turn-off or shutdown option of the application will remain disabled for the customers i.e. the customers can not be able to turn off the application and do any other work on the tablets. After having the food, customer can make payment by online or by cash and enter feedback regarding to that restaurant system facility and services. Customer contact number will be saved in database for sending massage about next offers.

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This project consists of 3 main modules as follows:

A. User Tablet(Module 1)

This type of the tablets is especially made for the normal users coming in the restaurant. First customer has to be done registration after registration he/she will get password and user name then he/she can order process.

B. Manager's Tablet (Module 2)

These desktops are especially for the use of the restaurant manager

The manager should be able to control the function of whole restaurant from a single desktop/tablet.

He can access any tablet and should be able to make changes to the menu.

Also he can change price of particular item or disable particular.

C. Kitchen Display (Module 3)

These are present at the kitchen near chefs that he should be able to see what a particular has ordered.

All the ordered items are displayed on the screen giving the table number below.

They should be sufficiently large to be seen by cheat a reasonable distance.

Chef should be able to notify when a particular items ready.

D. SMS Integration(Module 4)

At the time of registration customer has to be enter the contact number & other information, this contact number & other information will saved in database. If there is any offer in restaurant then server will automatically send SMS to the customer.

III. ADVANTAGES

Managing and keeping records of all students, papers, books and the entire system in digital format i.e. in computers.

As it is online the customer doesn't have to wait for the waiter to take their order and doesn't has to wait for the food as well

Waiters don't have to manually keep a record of all the food ordered by the customer and that work is very easy.

Waiters don't have to manually calculate the amount of money to be paid by the customer after having food it is automatically done in the software.

Records are maintained in computers so there are less chances of damage and loss of data

More exposure for people in the world of technology.

IV. CONCLUSION

From a proper analysis of positive points and constraints on the component, it can be safely concluded that the product is a highly efficient GUI based component. This application is working properly and meeting to all user requirements. This component can be easily plugged in many other systems.

Finally we will find that system is user friendly and easily handled by any client. Also maintaining the profile for each client or user separated with their order . And bill can be generated online using this user can identify that what is its cost of Food Order. So it can be modify the order then goes to final bill processing.

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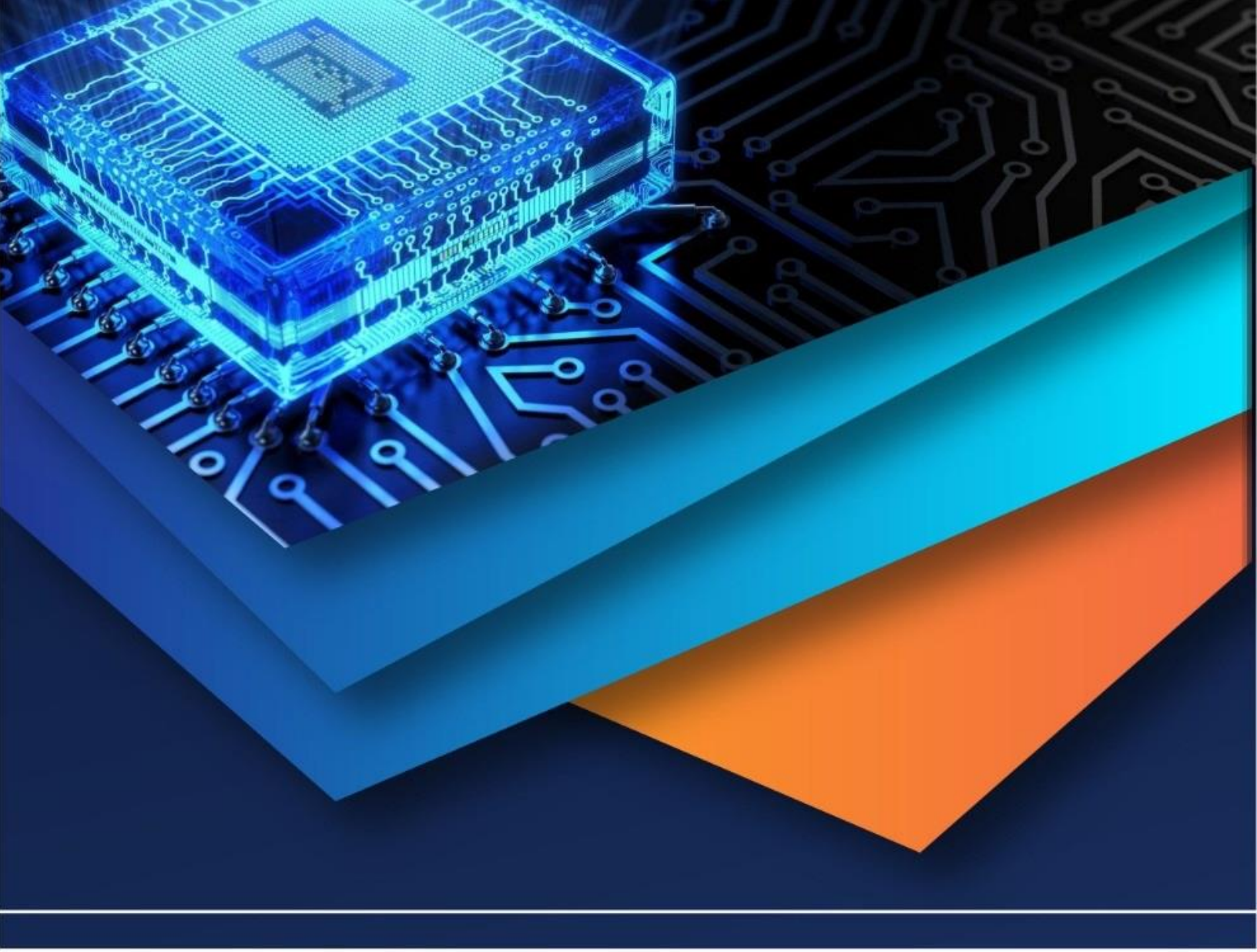
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