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Online Food Ordering System

Prof. Mundhe Bhalchandra B.[1], Tekale Vaishnavi Vaijnath[2], Patil Prerna Chandu[3]
Ghuge Pratik Baburao[4], Atole Dhanraj Sunil[5]
Professor, Department Computer of Engineering[1]
Students, Department Computer of Engineering[2,3,4,5]
Sahyadri Valley College of Engineering & Technology, Rajuri, India

Abstract: *The purpose of Online Food Ordering System is to automate the existing manual system by the help of computerized equipment's and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. The required software and hardware are easily available and easy to work with. The Online Food Ordering System's main purpose is to maintain track of information such as Item Category, Food, Delivery Address, Order, and Shopping Cart. It keeps track of information about the Item Category, the Customer, the Shopping Cart, and the Item Category. Only the administrator gets access to the project because it is totally built at the administrative level. The project's purpose is to develop software that will cut down on the time spent manually managing Item Category, Food, Customer, and Delivery Address. It saves the Delivery Address, Order, and Shopping Cart information.*

Keywords: Automated Food Ordering System, Dynamic Management, Internet of Things, Smart Phone.

I. INTRODUCTION

Online food ordering is the process of ordering food from a website. The product can either be food that has been specially prepared for direct consumption (such as vegetables straight from a farm or garden, frozen meats, etc.) or food that has not been (such as direct from a certified home kitchen, restaurant). The effort to create an online food ordering system aims to replace the manual method of taking orders with a digital one. The ability to rapidly and correctly create order summary reports whenever necessary is a key factor in the development of this project.

The potential of an online food ordering system is enormous. Any restaurant or fast-food
chain can use this PHP project to keep track of customer orders. This project is simple, quick, and precise. There is less disk space needed. MYSQL Server is used as the backbone by the online food ordering system, eliminating the risk of data loss and ensuring data security.

Customers have the option of either having the fo od delivered or picked up. A customer starts by selecting the restaurant of their choice, then scans the menu, picks an item, and
then decides whether they want it delivered or picked up. Then, when picking up the food, you can pay with cash at the restaurant or with a credit card or debit card using the app .

II. LITERATURE SURVEY

Background of the Studies The research papers we considered while doing our analysis are listed below. In a wireless meal ordering system was designed and implemented together with consumer feedback for a restaurant. It makes it simple for restaurant operators to
change menu presentations and set up the system in a Wi-Fi setting. The configurable
wireless meal ordering system has linked a smart phone with Realtime customer feedback implementation to enable real-time contact between patrons of restaurants and business owners. [1]. The goal was investigating the variables that affect internet users' perceptions of online food ordering among university students in Turkey. Davis's Technology Acceptance Model (TAM), which he created in 1986, was used to analyse how the Web environment for ordering food was adopted. Along with TAM, three additional primary factors—Trust,
Innovation, and External Influences—are included to the paradigm. [2] The research project

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intends to automate the restaurant meal ordering procedure and enhance the patrons' dining experience. In this study, the design and implementation of a restaurant food ordering system were covered. The wireless data access to servers is implemented by this system. All the
menu information will be available on the user's mobile Android application. Wirelessly, the kitchen and cashier receive the order information from the customer's mobile device.
The central database is updated with these order specifics. The proprietor of the restaurant can quickly handle menu changes. [3] This research examines the initiatives made by
restaurant owners to implement ICTs—such as PDAs, wireless LANs, and pricey multi-touch screens—to improve the dining experience. In order to address some of the drawbacks of the traditional paperbased and PDA-based food ordering systems, a low-cost touch screen-based restaurant management system that uses an Android smartphone or tablet is suggested in
this study. [4] 5 The study's objective was to determine whether the application is user-
cantered and based on user requirements. This system developed all problems pertaining to every user that it includes. Almost anyone may use the program if they know how to use an Android smart phone. The various problems with Mess service will be resolved by this system. The implementation of an online food ordering system is done to assist and resolve significant issues for consumers. Based on the application, it can be said that: This system makes placing orders simple; it gives customers the information they need to place orders. Through the
program, it is able to receive orders and change their data, and it also aids the administrator in managing all the Food system.

III. CONTENT

- HTML (Hypertext Markup Language): HTML forms the basic structure of web pages, defining the content and layout. It provides the foundation for creating different sections of the online food ordering website. •
- CSS (Cascading Style Sheets): CSS is crucial forstyling and formatting HTML elements. It enables the design of a visually appealing interface, ensuring a consistent look and feel across the entire ordering platform.
- JavaScript: JavaScript adds interactivity to the website. It's used for client-side scripting, allowing dynamic content updates, form validation, and interactive features. Popular JavaScript libraries/frameworks like React or Vue.js can enhance the user experience.
- PHP (Hypertext Preprocessor): PHP is a server-side scripting language commonly used for web development. It's instrumental in handling server-side logic, managing databases, and facilitating the communication between the front-end and back-end components of an online food ordering website.
- Database (e.g., MySQL): To store and retrieve data such as user profiles, course information, and progress tracking, a database management system is essential. MySQL is a commonly used relational database with PHP.
- Content Management System (CMS): Consider using a CMS like WordPress or Joomla for easier content management, especially if your Ordering platform involves frequent updates or user-generated content

IV. PLAN TO IMPLEMENTATION

A software design pattern called Model View Controller, or MVC as it is more formally known, is used to build online applications. There are three components to the Model View

Controller pattern:
Model- The lowest level of the pattern, is in charge of maintaining the data.
View - This is in charge of showing the user all or part of the data.
Controller- The computer program that controls how the Model and View interact. MVC is well-liked because it provides for duty separation by separating the application logic and user interface layers. The Controller accepts all requests from the application and collaborates with the Model to prepare any necessary data for the View. The View then constructs a final

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presentable response using the data produced by the Controller. The following is a graphic representation of the MVC abstraction. Model of MVC (Model View Controller Flow.

V. SOLUTION

During the construction of the web application "Online Food Order," the developer ran into a few issues. Here are a few issues in brief:

I. Requirement Gathering Phase: It is a crucial step. The project will fail if the requirements are poor. At that time, developer became disappointed when Developer was collecting information and data then what information and data will be helpful or appropriate for this project.

II. During Design Phase: At this moment, the developer struggled to decide which flowchart would be best for this project when creating it.

III. Development Phase: It is a very major component of the undertaking. Frequently, the developer misplaced the semicolon (;) at the conclusion of the statement.

IV. Testing Phase: It is an essential component of the project.

VI. RESULT AND DISCCUSION

The final output is a complete web-based Restaurant Management System, which can be used in any kind of restaurant. This Restaurant Management System can help to manage the Restaurant more effectively, efficiently and smoothly. This is more secured and there will be speedy and well-ordered authentication procedure for the maintenance of records. At present time, in this technology-based world, people like and wants everything to be smooth and efficient through the use of data and information. In this perspective, our Restaurant Management System can be an ideal platform for the users. Its user-friendly interface can help the customers to find his/her desired menu item and place order with a few click. Customers can easily place an online order by browsing the menu options, pick what they want sitting at home. And can also receive their food .

VII. CONCLUSION

Restaurant Management System is a web-based technology that aids the restaurant industry in carrying out tasks effectively and efficiently. It aids in managing cash flow for managers.

Managers can view analytics data to assess company growth. The manager can control orders and employee schedules by using this system. The full complement is a restaurant management system. It provides access to the Online Order platform, third-party connectors software, and comprehensive CRM solution, which together cover a sizable portion of your restaurant's requirements. They are not the outdated hardware and software sets for restaurants that were previously offered. They are the hottest things around, smooth, manageable, inexpensive, and quick. In the "Online Food Ordering Project," we made every effort to meet all the demands of the restaurant. Because it is straightforward and adaptable, the project is successful. The biggest benefit of my project is that it draws plenty of users because of its simplicity. A novice user may operate it with ease. Any type of restaurant can utilize our software. By automating meal ordering, billing, and inventory control, the restaurant management system assists the restaurant manager in managing the restaurant more successfully and efficiently. The system handles the transaction and stores the data produced. These

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data will be used to create reports that assist the restaurant manager in making wise business decisions. For example, the manager can decide whether more waiters, delivery men, delivery carts, and cooks are needed based on how many clients will be present during a specific time period. When this project is finished, all security concerns will be resolved. Additionally, a quick and secure authentication process will be used for record maintenance. Because it automatically pulls information about a consumer from the database on subsequent visits, data entry is quick and easy. As a result, our program will undoubtedly succeed in replacing the antiquated manual way of storing secure information. The work plan also specifies the specific 29 front end and back-end characteristics of the technology being used in the project. Future project goals and its scope have been elaborated.

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