

Food Order Delivery Website

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Abstract — Food order from mobile application is popular nowadays, this way can help customers order food effectively and faster. It also can offer maximum benefit for suppliers and customers. So, the customer can get the value of online food order delivery. This research used quantitative approach with 187 respondents to see what stimulus factors that make people interest in online order for food delivery. Research questions that need to be answered: which stimulus factors that make people interest to do online order for food delivery? There are 6 (six) hypotheses for this research and the answers to these questions are privacy factor and informativeness factors as the stimulus to make the customer order online food delivery. The SOR model is used in this research. The SOR model instead of Stimulus Organism Response Model is a framework that used to find out how the human process receives a stimulus factor An Online Food Ordering System is proposed here which simplifies the food ordering process. The proposed system shows a user interface and update the menu with all available options so that it eases the customer work. Customer can choose more than one item to make an order and can view order details before logging off. The order confirmation is sent to the customer. The order is placed in the queue and updated in the database and returned in real time. This system assists the staff to go through the orders in real time and process it efficiently with minimal errors.

Keywords: Quantitative Approach with 187 Respondents, Hypotheses, the SOR Model, and Stimulus Organism Response Model Is a Framework

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 homekitchen, 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 food 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 or website. The customer is informed by the website and app about the food's

quality, how long it takes to prepare, and when it will be ready for pick-up or delivery.

II. RELATED WORKS

- 1) Kirti Bhandge, Tejas Shinde, Dheeraj Ingale, Neeraj Solanki, Reshma Totare, "A Proposed System for Touchpad Based Food Ordering System Using Android Application", this paper The basic problem in the food service industry is that restaurants are not realizing efficiencies that would result from better applications of technology in their daily operations. The earlier food ordering system was entirely a manual process which involved waiters, pen and paper. The waiter had to note down orders from customers, take these orders to kitchen, update them in records and again make bill. Even though this system is simple it may involve human errors in noting down the orders. There are many reasons leading to the feeling of dissatisfaction including being entertained late in terms of order taking by the waiter and meals serving. To overcome these limitations in manual system, multi- touchable restaurant management system is proposed in this paper to automate food ordering process. The food restaurant with automated food ordering system will be equipped with a user-friendly touch screen, display screen in the kitchen, and software for completing the process at the backend
- 2) Varsha Chavan, Priya Jadhav, Snehal Korade, Priyanka Teli Online Food Ordering System Using Web Based Application", Typically in a restaurant food order process involves several steps for ordering the food where firstly customer starting from browsing the paper based menu and then inform to the waiter for ordering items. Usually the process require that the customer has to be seated before starting. An alternative method for the customers is "Food Pre-Order System using Web Based Application" in which customer can be able to create the order before they approach the restaurant. Customer using Smartphone. When the customer approach to the restaurant, the saved order can be confirmed by touching the Smartphone. The list of selected pre-ordered items shall be shown on the kitchen screen, and when confirmed, order slip shall be printed for further order processing. The solution provides easy and convenient way to select pre-order transaction form customers. With the online food ordering method, food is ordered online and delivered to the customer. This is made possible through the use of electronic payment system .The payment can be done through the customer's credit card, debit card. So, in this project we design a system which will allow customers to go online and place order for their food. Due to the rapid growth in the use of internet and the technologies associated with it, the several opportunities are coming up on the web. So many businesses and companies are now undertaking into their

business with comfort because of the internet. One of the businesses that the internet introduced is an online food ordering system. In today's life many restaurants have focus on quick preparation and speedy delivery of orders rather than offering a rich dining experience. Recently, most of this delivery orders were placed over the phone, but there are many drawbacks of this system

- 3) Ashutosh Bhargave, Niranjan Jadhav, Apurva Joshi, Prachi Oke, S. R Lahane, "Digital Ordering System for Restaurant Using Android" Nowadays web services technology is widely used to integrate heterogeneous systems and develop new applications. Here an application of integration of hotel management systems by web services technology is presented. Digital Hotel Management integrates lots of systems of hotel industry such as Ordering System Kitchen Order Ticket (KOT), Billing System, Customer Relationship Management system (CRM) together. This integration solution can add or expand hotel software system in any size of hotel chains environment. This system increases quality and speed of service. This system also increases attraction of place for large range of customers. Implementing this system gives a cost-efficient opportunity to give your customers a personalized service experience where they are in control choosing what they want, when they want it – from dining to ordering to payment and feedback. We are implementing this system using android application for Tablet PC's. The front end will be developed using JAVA Android and the backend will work on MySQL database
- 4) Khairunnisa K., Ayob J., Mohd. Helmy A. Wahab, M. Erdi Ayob, M. Izwan Ayob, M. Afif "The Application of Wireless Food Ordering System" This research work aims to design and develop a wireless food ordering system in the restaurant. The project presents in-depth on the technical operation of the Wireless Ordering System (WOS) including systems architecture, function, limitations and recommendations. It is believed that with the increasing use of handheld device e.g PDAs in restaurants, pervasive application will become an important tool for restaurants to improve the management aspect by utilizing PDAs to coordinate food ordering could increase efficiency for restaurants and caterers by saving time, reducing human errors and by providing higher quality customer service. With the combination of simple design and readily available emerging communications technologies, it can be concluded that this system is an attractive solution for the hospitality industry. Web-based applications are the preferred method of accessing data remotely because they provide solutions that are easy to administer and user-friendly. The use of Internet protocols as well as subsets of World Wide Web formatting and coding standards for wireless applications has shorten the development cycle drastically and free up developers to concentrate on more important issues. Most of handheld device support these technologies and thus an excellent candidate for inclusion in solutions that required remote database access.
- 5) Noor Azah Samsudin, Shamsul Kamal Ahmad Khalid, Mohd Fikry Akmal Mohd Kohar, Zulkifli Senin, M

ohdNor, Ikhaskan. A customizable wireless food ordering system with real time customer feedback The existence of wireless technology and the emergence of mobile devices enable a simple yet powerful infrastructure for business application. Some early efforts have been made to utilize both technologies in food ordering system implementations. However, the food ordering systems that have been proposed earlier exhibit limitations, primarily in cost effectiveness, allowing customizations and supporting real-time feedback to customers. In this paper, we discuss the design and implementation of a customizable wireless food ordering system with real-time customer feedback for a restaurant (CWOS-RTF). The CWOS-RTF enables restaurant owners to setup the system in wireless environment and update menu presentations easily. Smart phone has been integrated in the CWOS-RTF implementation to facilitate real-time communication between restaurant owners and customers. A preliminary testing suggests that the CWOS-RTF has the potential to eliminate the limitations of existing food ordering systems. Keywords-smartphone

- 6) Patel Krishna, Patel Palak, Raj Nirali, Patel Lalit "Automated Food Ordering System". The Frequent growth of wireless technology and Mobile devices in this era is creating a huge impact on our lives. Some early efforts have been made to combine and utilize both of these technologies in advancement of hospitality industry. This research work aims to automate the food ordering process in restaurant and also improve the dining experience of customers. In this paper we discuss about the design & implementation of automated food ordering system with real time for restaurants. This system, implements wireless data access to servers. The android application on user's mobile will have all the menu details. The order details from customer's mobile are wirelessly updated in central database and subsequently sent to kitchen and cashier respectively. The restaurant owner can manage the menu modifications easily. The wireless application on mobile devices provides a means of convenience, improving efficiency and accuracy for restaurants by saving time, reducing human errors. The restaurants have two different departments that is cashier department and kitchen department. At the kitchen department, the order will display at the kitchen's screen. In communication with the first server are second and third servers for processing payments and transmitting orders to the restaurant for processing and fulfilment
- 7) Mayur D. Jakhete, Piyush C. Mankar "Implementation of smart restaurant with e-menu card" There are many reasons leading to the feeling of dissatisfaction including being entertained late in terms of order taking by the waiter and meals serving. The issue of being late entertained could be solved with help of the advancement in the technologies of communication. In accordance, this study initiates an integrated and networked system, with the focus is on its ability to solve the above described limitations in order taking. This study names the system as Digital Ordering System for Restaurant Using Android (DOSRUA). In definition, DOSRUA is

an integrated system, developed to assist restaurant management groups by enabling customers to immediately make orders on their own serve the vehicle for its intended purpose, i.e. the movement of people and loads in time and space. On the other hand, servicing is a set of organizational and technical activities aimed at restoring and maintaining the serviceability of a vehicle. At present, apart from technological and economic factors, an environmental factor is gaining significance in restoring vehicle parts to fitness (regeneration). The use of regenerated parts reduces negative impact of production processes on the environment.

III. SYSTEM ARCHITECTURE

A. Proposed System

The working of the system starts with the collection of user's vehicle service data and send it to respective service station and in this project we introduce doorstep service pickup to the customers i.e coming to customer's location and taking their vehicle for service to their respective service station

B. Proposed System:

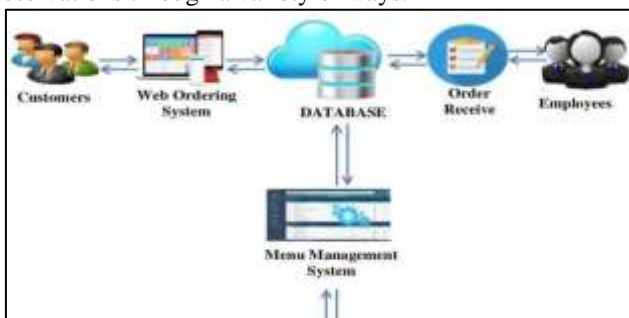
Here is an illustration of a software project plan: 1) How will the project be carried out with company? What are the time, financial, and human resource limitations? What does having a market strategy entail? 2) Customer meetings: Weekly or as needed customer meetings that include a progress report presentation. Additionally taking into account customer input, adjustments and changes are made as necessary. The client is also shown project deliverables and milestones. The steps listed below can be used to create successful software projects:

Select a project. The aims and objectives of project are as follows:

- Understanding specifications and requirements.
- Using analysis, design, and implementation methods.
- Using testing procedures.
- Documenting.
- Budget allocation or exceeding limits under control.
- Understanding project milestones and deliverables

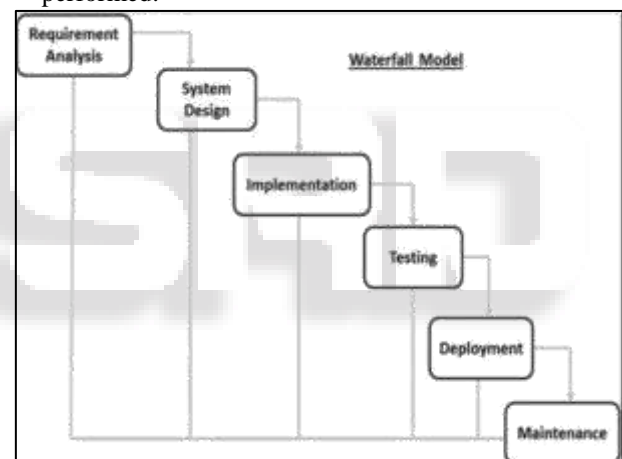
C. System Architecture

An easy-to-use table management system will also be included in a good restaurant reservation setup. This enables restaurants to see their restaurant hour by hour and receive reservations through a variety of ways.



- Requirement Gathering and analysis – During this stage, all potential system needs are gathered and outlined in a requirement specification document.

- System Design – The system design is created in this phase after studying the requirement specifications from the first phase. This system design aids in determining the overall system architecture as well as the hardware and system requirements.
- Implementation – The system is initially built in discrete programs known as units, which are then combined in the following phase, using inputs from the system design. Unit testing is the process of developing and evaluating each unit for functionality.
- Integration and Testing – Following the testing of each unit created during the implementation phase, the entire system is merged. The entire system is tested for errors and failures after integration.
- Deployment of system – Once the product has undergone functional and non-functional testing, it is either published to the market or deployed in the customer's environment.
- Maintenance – Various problems can arise in a client environment. Patches are published to address certain problems. Additionally, improved versions of the product are issued. To bring about these changes in the surroundings of the consumer, maintenance is performed.



IV. METHODOLOGY

Structural Query Language (SQL) is used for accessing, manipulating, and communicating with the database. Almost every function such as retrieving data from the database, creating a new database, manipulating data and databases such as insertion, deletion and updation can be performed using SQL. It is a user-friendly and domain-specific language.

The SQL standard defines three kinds of data types

- predefined data types
- constructed types
- user-defined types.
- Constructed types are one of ARRAY, MULTISSET, REF(erence), or ROW.
- User-defined types are comparable to classes in object-oriented language with their own constructors, observers, mutators, methods, inheritance, overloading, overwriting, interfaces, and so on. Predefined data types are intrinsically supported by the implementation.

A. Advantages:

1) Faster Query Processing –

Large amount of data is retrieved quickly and efficiently. Operations like Insertion, deletion, manipulation of data is also done in almost no time.

a) No Coding Skills –

For data retrieval, large number of lines of code is not required. All basic keywords such as SELECT, INSERT INTO, UPDATE, etc are used and also the syntactical rules are not complex in SQL, which makes it a user-friendly language.

b) Standardized Language –

Due to documentation and long establishment over years, it provides a uniform platform worldwide to all its users.

c) Portable –

It can be used in programs in PCs, server, laptops independent of any platform (Operating System, etc). Also, it can be embedded with other applications as per need/requirement/use.

d) Interactive Language –

Easy to learn and understand, answers to complex queries can be received in seconds.

2) XAMP

XAMPP is a stack of free and open source PHP and Perl interpreters, the MariaDB database, and the Apache HTTP Server are the primary components of Apache Friends' free and open source cross-platform web server solution stack. Cross-Platform (X), Apache (A), MariaDB (M), PHP (P), and Perl make up the acronym XAMPP (P). It is a straightforward, lightweight installation of Apache that makes setting up a local web server for testing and deployment very simple for developers. An extractable file contains the server program (Apache), database (MariaDB), and scripting language (PHP) required to set up a web server. Cross-platform means that XAMPP functions equally well on Linux, Mac, and Windows. Since XAMPP uses the same components as the majority of real web server deployments, switching from a local test server to a live server is also incredibly simple

B. PHP

Hypertext Preprocessor (or simply PHP) is a server-side scripting language used for general programming purposes as well as Web development. The PHP Group now produces the PHP reference implementation, which was first developed by Rasmus Lerdorf in 1994. Personal Home Page was the first meaning of PHP, however it has since evolved into PHP: Hypertext Preprocessor. PHP code can be used alone, in conjunction with different web template systems, web content management systems, and web frameworks, or it can be incorporated into HTML code. A PHP interpreter, which can be either a web server module or a Common Gateway Interface (CGI) executable, is typically used to process PHP code. The output of the interpreted and executed PHP code, which could be any kind of data, including graphics, is combined with the created web page by the web server. PHP code can be used to create standalone graphical apps and can also be run using a command-line interface (CLI).

C. Bootstrap

Bootstrap is a front-end framework that is open-source and free to use while creating websites and web apps. It includes optional JavaScript extensions along with HTML and CSS-based design templates for navigation, buttons, forms, buttons, and other interface elements. It only addresses front-end development, unlike many web frameworks.

Advantages:

- 1) Easy initiation: Coding is a hurricane task for a person who is unbeknownst to web development. But the greatest use of Bootstrap in web development is it makes coding hassle-free. Bootstrap handles everything for you. Despite having no extensive knowledge of coding, one can design an enticing landing page using Bootstrap. The only criterion is to have moderate experience of CSS and HTML. Alongside this, the integration process of Bootstrap is easy on existing and newer websites. In your current CSS, you can incorporate diverse platforms, frameworks, elements of Bootstrap without any hassle
- 2) Responsiveness: Statistics highlight over 6.4 billion smartphone users worldwide. This study infers smartphone penetration of over 80 percent. And the numbers do not stop here; in fact, they are rising rapidly. Due to this extensive demand, having a mobile-responsive website has become a prerequisite, and this task is a cakewalk with Bootstrap by your side. It has a fluid grid layout, which adapts as per the screen resolution.
- 3) Highly customizable: You can find an array of templates in Bootstrap. However, if you find them unappealing, you can concoct your customization using the CSS file. Besides, if you cannot spare time to start everything from scratch, you can blend the customization with the existing code and enhance the functionality. All this can be undertaken under the customization page.
- 4) Extremely user-centric: While creating landing pages, it is very important to design from the user's point of view. If a landing page is engaging, only then does it appeal to the audience. One of the prominent advantages of Bootstrap is you can design landing pages complementing the audience's requirements. It comes up with suggestions regarding elements like photos, Call-to-actions (CTA) that look best for your audience and enhance user experience. Moreover, it helps in making easy edits to the landing page elements for reaching out to more audiences.

D. JavaScript

JavaScript often abbreviated as JS, is an interpreted, high-level programming language. Additionally, it is a dynamic, weakly typed, prototype-based, and multi-paradigm language. One of the three fundamental technologies of the World Wide Web, together with HTML and CSS, is JavaScript. JavaScript is a crucial component of online applications because it makes web pages interactive. The vast majority of websites make use of it, and every significant web browser has an engine specifically designed to run JavaScript.

E. CSS

Cascading Style Sheets (CSS) is a language for creating style sheets that describe how a document produced in a markup

language like HTML will look. The World Wide Web's foundational technologies, along with HTML and JavaScript, include CSS. Layout, color, and font may all be separated from content and presentation using CSS. By describing the pertinent CSS in a separate CSS file, this separation can make content more accessible, give definition of presentation features greater freedom and control, allow numerous web pages to share formatting, and reduce complexity and repetition in structural content.

V. SYSTEM REQUIREMENTS:

A. Hardware Requirements:

The following are the minimum hardware requirements to run the proposed system:

- Processor: Intel Core i3 or higher
- RAM - 4 GB (or) above
- System type - 32 bit OS, x64- based processor
- Storage: 10 GB or more

B. Software Requirements

- Python 3.7.6 or higher Php,sql and css

VI. IMPLEMENTATION AND ANALYSIS:

The implementation of this project consist of some specific module which deals with overall task to be performed by the food delivery website



Fig. A: Home page

The above fig shows the home page of this projects and there are some menus specified in it this pagepage provides necessary details to the user for making their food order in the website.



Fig. B: user registration

The above fib b shows the procedures for registering in food order website to make their food order



Fig. C: Order confirmation

The above fig c shows the confirmation message that the order is taken successfully and shows home to book next order



Fig. D: contact us

The above fig d shows the contact us page for solving user's queries regarding the online order taken through the website



Fig. E: ownership details

The above fig E shows ownership details of the website in order to provide the user who own this website

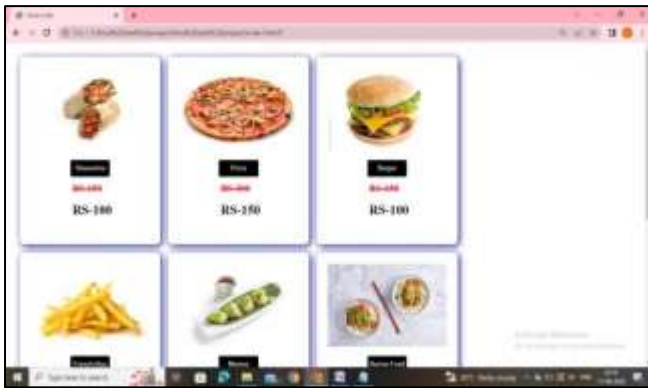


Fig. F: E-menu Card

The above fig F shows the e menu card of the website which gives clear information regarding the availability of food stock in website

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 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 front end and back end characteristics of the technology being used in the project. Future project goals and its scope have been elaborated.

VIII. FUTURE ENHANCEMENT

Each project should pay close attention to future development because it contains the system's most recent features. It lessens software issues and defects. It develops a close relationship with customers based on their comments or preferences. Developer will incorporate certain dynamic elements that are briefly described below into my restaurant management system.

Reporting module with real time mechanism.

- Modern architecture with smooth transitions.
- System for email and mobile confirmation.
- Selling Point

The ease and convenience of online food ordering using restaurant mobile apps make sure that Tele calling is no longer used for ordering. The reason behind this is the user-friendly interface of the food ordering app provides a smooth ordering experience to customers. While placing orders, customers can select their preferred order type; if it's a takeaway or a home delivery. Next, the food ordering app prompts customers to choose their location with an easy drop-down button. It allows customers to select their city and the local outlet before they proceed to the menu and place their order. Hence there is no potential chance of a communication mishap. The restaurant mobile apps use the Translation system, and hence, language is no longer a problem.

ACKNOWLEDGEMENT

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