



## Click to Eat with Mess Facility

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### ABSTRACT

*The purpose of Click to Eat is to automate the existing manual system with the help of computerised equipment and full-fledged computer software, fulfilling their requirements 'so that their valuable data and information can be stored for a longer period of time with easy accessing and manipulation of the same. The required software and hardware are easily available and easy to work with. Click to Eat main purpose is to keep track of information such as item category, food, delivery address, and order. It keeps track of information about the item category, the customer, and the item category. Only the administrator gets access to the project because it is totally built at the administrator level. The project's purpose is to develop software that will cut down on the time spent manually managing item categories, food, customers, and delivery addresses. It saves the delivery address and order. The food industry has always been profitable, not only for manufacturers and suppliers but also for users and distributors. Online food delivery systems need more hours due to recent changes in the industry and the increasing use of the internet. A real-time online food ordering system for the customer is our proposed system. The traditional queueing system's drawbacks and disadvantages are overcome by our system application.*

*Food can be ordered online in a hassle-free manner through our system from restaurants as well as delivery services. Meal order-taking methods from the customer improve our system's application. A food menu is set up online, and according to their wishes, customers can easily place their orders through the proposed system. For the initial implementation of the system application, a pay-on-delivery payment system is used. Separate accounts are maintained for each user to make placing orders more secure by providing an ID and a password.*

**Index Terms:** PHP, MySQL, Laravel, XAMPP, HTML, CSS, JS, VS Code,

**Keywords:** - Dynamic database management, online food ordering system, restaurants.

### INTRODUCTION

**Click to Eat** is the process of ordering food from a website. An online food menu is set up by the proposed food ordering system, and customers can easily place orders according to their wishes. Also, customers can easily track their food orders. The management improves the food delivery service and maintains the database of customers. Motivation to develop the system comes from the Restaurant Management System. To efficiently obtain services provided by the user of the system, various facilities have a restaurant as well as a mess facility for customers to be considered by our system. The most messed-up users are the people who have been shifted to new cities, and this can be considered an inspiration for our system. One more inspiration can be considered as the increasing use of smart phones by customers, so that any user of the system can get all system services. Online food ordering systems in restaurants set up a food menu online, and guests can place orders as per their preferences. With the food menu, online guests can track orders fluently. The operation maintains a database of guests and improves food delivery service. The restaurant operation system inspires us to develop it. If junkies are assigned colourful establishments, the system will receive service effectively. In addition, the system also envisages a café as well as a mess installation for the guests. It comes to mind again that those who are really addicted to filth are those people who have been transferred to new megalopolises for colourful reasons. So, they are related. Adding access to the number of smart phones is also considered provocative, so that any addict of this system can get all the services at one click.

The labour rates are increasing steadily year on year, thus making it difficult to find employees. The food industry is highly labor-intensive, and the biggest expense in the food industry is the cost of employing the right kind of people to do the work. One of the ways to reduce this expense is to use modern technology to replace some of the jobs done by humans with machines. Here we propose a "Click to Eat" that has been designed for fast food restaurants, take-out restaurants, or college cafeterias. The system can also be used in the food delivery industry. This simplifies the process of food ordering for both the customer and the restaurant, as the entire process of taking orders is automated.

The Internet is one such business. This is an online food ordering application. In today's era of fast food and takeout, many restaurants have opted to focus on quick preparation and speedy delivery of orders rather than providing an enriching dining experience. It's possible for one to order any goods through the internet and get them delivered to his or her home.

Restaurants and mess services are recommended to new customers based on the user ratings through the proposed system, and for any improvements in quality, the restaurant or mess staff will be informed. For the initial implementation of the system application, a pay-on-delivery payment system is used. Separate accounts are maintained for each user for more secure ordering by providing an ID and a password.

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## LITERATURE SURVEY

1. Thus, the labour rate is continuously increasing year by year. It is becoming difficult to find employees. The food industry is extremely labor-intensive, and the biggest expense is the cost of employing the right kind of people to do the work. One way to reduce this cost is to use modern technology to replace some of the functions performed by humans with machines.
2. In this paper, it is planned that the way to improve the management of food delivery services is to focus on the database of customers and develop a system management system to motivate the services with efficiency from the users of the system. Many facilities can be provided. Here, an "online food ordering system" has been proposed designed for fast food, which is also available in restaurants, take-out, or college cafeterias. The system can also be used in the food distribution industry. It simplifies the whole process of ordering food for both the customer and the restaurant. Order taking is automated.
3. An automated food ordering system is proposed that will keep track of user orders quickly. They executed a food ordering system for different types of cafes in which users would make orders or make custom food with only one click. Utilising Android operations for tablet PCs, this system was executed. The anterior end was developed using HTML, CSS, JavaScript, and PHP, and at the backend, a MySQL database was used.
4. Nowadays, social media has become one of the most powerful platforms. In gift production, one of the reasons for the increase in online media consumption is that the consumption of traditional media is decreasing and the consumption of online media is increasing, so in this case, businesses had to modify their way of operating and implement pure trading methods and made-to-order (MTO) food while there is no physical store.
5. The research work aims to automate the food ordering process in restaurants and also improve the dining experience for customers. In this paper, the design and implementation of a food ordering system for restaurants are discussed. This system implements wireless data access to servers. The Android application on the user's mobile device will have all the menu details. The kitchen and cashier receive the order details wirelessly from the customer's mobile device. These order details are being updated in the central database. The restaurant owner can manage the menu modifications easily.
6. The website has been wanted to list many restaurants and chefs' kitchens with their menus accordingly. Thus, customers do not get to carry pamphlets and a menu list to order the food they want. They know that for our food ordering convenience, merely clicking one button is ample, and they claim that by providing consistent and effective services to customers, innovation will grow with success.
7. The discussion concerning the impact of COVID on the food delivery business is like this: however, the pandemic competes for a dramatic role in everyone's lives and work, which during this situation makes everybody most popular on the net. The ordering happens online and offline; however, online gets preference. So, in this, they need to use the first as a secondary supply of knowledge to induce a transparent image of the matter within the online food delivery services.
8. The disquisition work aims to automate the food ordering process in cafés and also improve guests' dining experiences. The design and performance of the food ordering system for cafes were discussed in this paper. This system provides wireless data access to waiters. The Android operation on the user's mobile will have all the menu details. The kitchen and cashier admit the order details from the customer's mobile wirelessly.
9. Describes an online food menu set up by the proposed food ordering system, and as per their will, customers can easily place the order. Also, customers can easily track their orders on the food menu. The management improves food delivery service and preserves customer databases. Motivation to develop the system comes from the restaurant management system. To get the services efficiently, the users of the system provide various facilities.
10. Restaurants as well as mess facilities are considered by our system for the customers. Most Mess users are people who are shifted to new cities, and this can be considered a motivation for our system. Another motivation can be considered as the increasing use of smart phones by customers, so that any user of this system can get all the services of the system. The system will be designed to avoid fatal errors for users, and users can also change their own profile where they can track their food items.
10. Getting your business online allows you to make a lot more sales, which will help you build a better reputation in the market. Existing customers will have a fantastic new way to order with your online menu, and new customers will find you quickly through popular web search engines. The system is customised to match the look and feel of your current website. We assist entrepreneurs in expanding their businesses in the digital age.
11. The modern history of fast food in America began on July 7, 1912. Opening of a fast-food restaurant called Automat in New York. self-drive There was a cafeteria with its prepared foods behind small glass windows and cooperative slots. Joseph Horn and Frank Hardy had already

opened an automaton in Philadelphia, but his automaton on Broadway and 13th Street in New York City created a sensation, and many automaton restaurants were quickly built across the country to cope with the demand. Automats were extremely popular in the 1920s and 1930s. The company also popularised the notion of "take-out" food with the slogan "less work for mom". The American company White Castle is generally credited with opening the second fast food outlet in Topeka, Kansas, in 1921, selling hamburgers for five cents apiece. White Castle later added five holes to each beef patty to increase its surface area and speed cooking times. White Castle was successful from its inception and spawned numerous competitors.

## METHODOLOGY

There are many dimensions and methods of research methodology. The scope of research methodology is wider than research methodology. It is mainly adopted by the researcher in carrying out this research. Method is the set of underlying principles and rules that govern a system's methodology; on the other hand, it is a systematic process for a set of activities. Thus, from these definitions, "methodology encompasses the methods used within a study.

The waterfall model under the software development life cycle (SDLC) is the online food ordering system and methodology used for customer preparation and self-ordering. It is used by system developers to produce or change information systems or software. It divides the development process into several stages or processes. After the completion of one phase, it will logically move on to another phase. Sometimes, due to failure in the current step, it is necessary to go back to the previous step. Systems design methodologies are a discipline within software development. Industry that seeks to provide a framework for activity and the capture, storage, transformation, and dissemination of information to make it economically viable to develop computer systems that are fit for purpose.

The simulation first starts with the customer entering his or her credentials (name, ID, and password). Once that has been verified, the customer can place an order specifying the quantity of food required. Now we get a window that displays the order number, customer ID, food name, price, and quantity. Once the customer finalises his or her order, they are redirected to the payment window, where the total price is displayed and the customer can select the payment method of their choice. The customer then gets a message confirming the order. The block diagram and the ER diagram of the proposed online food ordering system are given in Figures 1 (a) and (b).

The above-mentioned simulation flow is from the customer's point of view. If you are an admin, you can select the normal login option and enter the admin credentials (email ID and password). Once you enter the admin portal, you have the option of adding, deleting, or updating food. Any choice leads you to the food menu. Once the selected operation is carried out, the end result, i.e., the added food or the updated food list, is displayed, and if you have deleted a food, that particular food disappears from the main menu.

*The system provides correct security and reduces manual work-*

Customer panel	Admin panel
<ol style="list-style-type: none"> <li>1. Home</li> <li>2. Login</li> <li>3. Registration</li> <li>4. Food classes</li> <li>5. Food categories</li> <li>6. Food</li> <li>7. Food order</li> <li>8. Food quantity</li> <li>9. Payment</li> </ol>	<ol style="list-style-type: none"> <li>1. Login</li> <li>2. Home page</li> <li>3. Add Admin</li> <li>4. Add food</li> <li>5. Add classes</li> <li>6. Add category</li> <li>7. Add food</li> <li>8. Manage Admin</li> <li>9. Manage classes</li> <li>10. Manage category</li> <li>11. Manage food</li> <li>12. Manage order</li> <li>13. Update admin</li> <li>14. Update classes</li> <li>15. Update food</li> <li>16. Update category</li> <li>17. Update Order status</li> </ol>

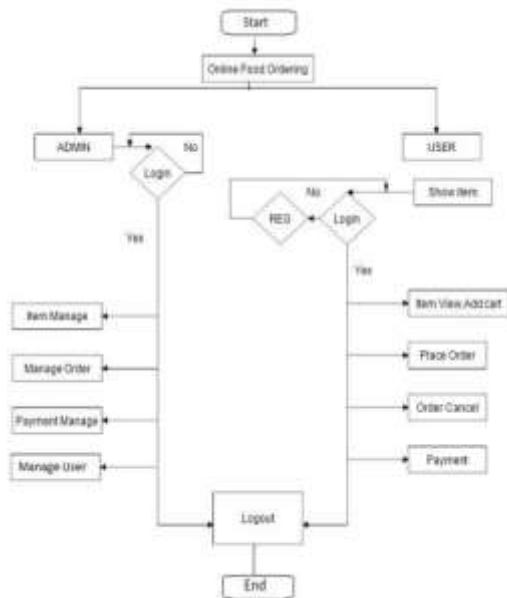


FIGURE:(b) ARCHITECTURE DESIGN

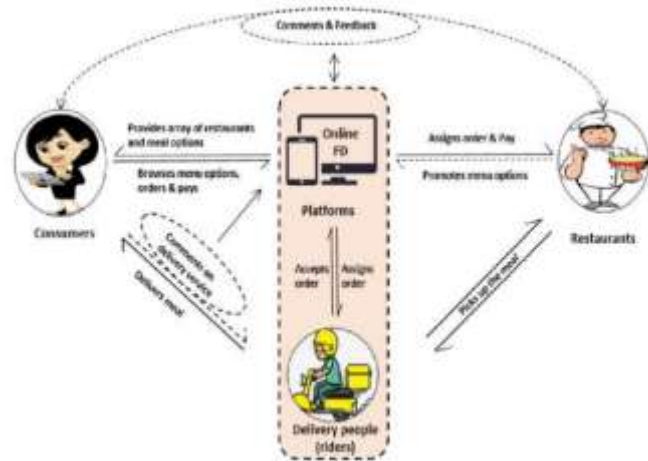


FIGURE: (a) SYSTEM FLOW CHAT

## SYSTEM IMPLEMENTATION

The implementation of the system application is done in PHP, Laravel, HTML, CSS, and JS, and the datasets are stored in a MySQL database. We have developed a web-based application using the above languages, which is CLICK TO EAT (an online food ordering system). The hardware required for this application is a laptop, the Internet, and 8 GB of RAM. For the initial implementation of the system, we have considered one software package for one restaurant. Implementation of our system consists of a real-time feedback system where, once you place an order, an email will be sent to the customer regarding the feedback on their order. According to the comments and ratings of the customer, using Sent Wordnet analysis, we provide recommendations to the customers, providing the highly rated restaurant or mess first and other, respectively. The Sent wordnet analysis uses the comments mentioned in the feedback, assigns a value that can be positive or negative, and organises the restaurant or mess in a fashion. This means the restaurant or mess with the highest positive value will be shown first, and vice versa.

There are three main users involved in the system's implementation: service customers, restaurant owners, and troublemakers. When a person moves to a new city, he must find sources for clean and better food, so he or she will locate and select the restaurant, mess, or tiffin service depending on its category.

Searching by rating is also possible through our system. A list of services is provided when it matches the rating given by the user; this is checked with the services that have a rating. Search where this can be done by accepting a distance from the user's need to find and display service providers within a certain distance.

New Order: New Order is its main feature, a client-side application that will be used to create orders. An order can be placed in two different ways: by using the "My Favorites" feature to place an order by choosing one of the top three favorite restaurants, or by using the "Make a New Order" feature to place an order by choosing a restaurant and menu readily provided.

### III.1: Software requirements

**PHP** (hypertext preprocessor) is a language that was developed for developing web applications and is also a general-purpose programming language. PHP code is executed in a given order, where it is first started by a PHP interpreter, which is then implemented as a web server module. The output of both the interpreted and executed PHP code is combined by the web server, which may be any type that is associated with the created web page.

**LARAVEL:** Laravel is an open-source PHP framework that is robust and easy to understand. It follows a model-view-controller design pattern. Laravel reuses the existing components of different frameworks, which helps in creating a web application. The web application thus designed is more structured and pragmatic.

**MySQL** is an open-source relational database management system (RDBMS). MySQL is the central component of the WAMP open-source web application software stack. WAMP is an acronym for "Windows, Apache, MySQL, and Perl/PHP/Python". From the source code, MySQL can be built and installed manually, but it is always installed as a binary package due to customization. Although further steps are required to alert the security and optimisation settings.

### III.2 Hardware requirements

A desktop computer with an Intel Core i3 64-bit processor, a graphics card with 8 GB of RAM, and the Microsoft Windows 10 operating system were used.

#### Advantages

- It's fast, easy, and comfortable.
- Less hassle for you.
- An online menu is simpler to manage.
- It's just one click away.

### III.3: Limitations of the System

The system also has some limitations. The system only has basic features in a shopping cart and does not allow for extensive cart customization. Furthermore, server-side programming handles almost all of the application's capabilities, including validation. This adds to the workload of the server, especially when the programmer receives a large number of users. Using client-side languages such as JavaScript or HTML 5 to validate data can help solve this problem. An order model has also been developed. On the other hand, the controller and functions have yet to be created to push data into the orders table. As a result, you will not be able to see the orders you have placed.

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## CONCLUSION

Therefore, the conclusion of the proposed system is based on stoner's requirements and is user-cantered. Developed in the system considering all the issues related to all the users involved in this online ordering system. If those people can access it, a wide range of people know how to operate Android smartphones and laptops. Various issues related to mess and tiffin service will be addressed with a full-fledged system. Thus, the performance of online food ordering systems in restaurants is designed to help break down one's order. Based on the result of this search, it can be concluded that it helps the customer place an order easily; it gives the information sought by the customer for placing the order. Food website operations designed for cafes and messes can help cafes and messes enter orders and modify their data, as well as being made for admins to control all online food systems. With Turnip the Beat, a cafe and mess menu can be set up online, and guests can easily place their orders. With an online food menu, tracking of orders is done easily, it maintains customers' databases, and it improves food delivery service. Cafe & Mess can actually customise the online cafe menu and upload images easily. Having a cafe menu on the internet implies that guests can easily poke holes in it and place orders at their convenience.

Thus, an automated food ordering system is presented with the features of feedback and wireless communication. The proposed system will attract guests and increase the effectiveness of the maintenance cafe and mess ordering and billing sections. The compass of the proposed system is justified as a large number of people are being shifted to different cosmopolises so that a wide range of people can use the proposed system.

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