Food Ordering System

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Abstract - *An online food ordering system is web based system that allows restaurant businesses to accept and manage orders that are placed through internet .The main objective of this project is to develop a web-based food ordering system in which the customer will be able to choose food according to their priority and order the food online and will receive the order at their place. This web based system will also the allow restaurants to quickly and easily manage an online menu which customers can browse and use to place orders with just a few clicks. There is also a Food Customization option provided for the customer and in the dining feature of every restaurant the vaccination information of the waiters and managers of that particular restaurant is provided due to which the customer can order food in a very safe manner through this online food ordering system and can enjoy their meals.*

Key Words: **User-friendly, Easy to Manage, Food Ordering**

1. INTRODUCTION

An online food menu is set up by the proposed food ordering system and as per their will customers can easily place the order. Also, customers by can easily track the orders with the food menu. The management improve food delivery service and preserves customers database. Motivation to develop the system is from the restaurant management system. To get the services efficiently the users of the system provides various facilities. Restaurants is considered by our system for the customers. Another motivation can be considered as the increasing use of smart phones by the customers, so that any users of this system get all service of the system. The system will be designed to avoid users doing fatal errors where users can change their own profile also where users can track their food item through GPS and where users can provide feedback and recommendations to Restaurants service providers. There's a need for the system due to lack of a full fledge application that can fulfill the customer requirements by providing him food from restaurants. The increasing use of online mode can be considered motivation. Our system will be very beneficial for students who study in different cities. The proprietors of restaurants which are updated on a daily basis. There will be no limit to the number of orders that can be placed by using our system to order food, customers can get exactly what they want. As a result, the similar technique is used in the startup business for the developers, It is possible to utilize the program customer comments in real time and our algorithm assigns ratings and comments to each item to the owner of a restaurant .It provides suitable

feedback to the user. Users, thus if a mistake occurs, there will be a notification and option of feedback to communicate with users .

1.1 Reasons to choose Food Ordering System

Our system helps the customer to get familiar with dishes, their prices as well as the discounts available.

This web based system helps the restaurant as well as the customers to keep track of their costs and transaction.
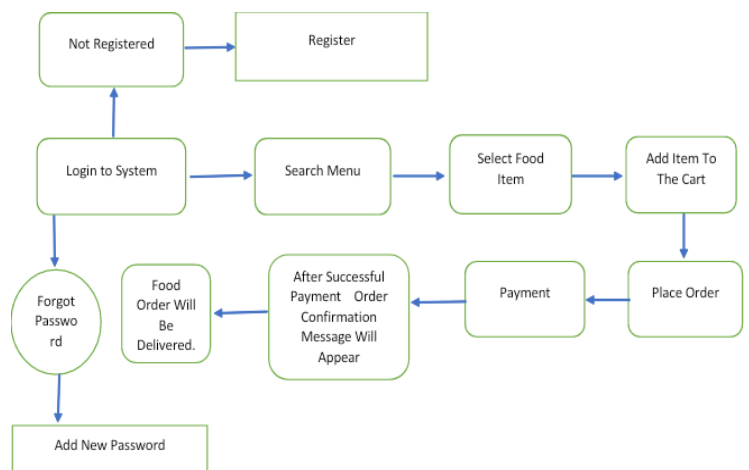
Along with ordering food online, customers can also compare various dishes using the information displayed.

1.2 Drawbacks of the Current System

Due to the large distances between ordering and delivering, food may not always remain as hot as we get in the restaurant when it arrives at the customers home. The customer who has ordered the food might have to reheat or eat the food as it is.

2. DETAILS RELATED TO THE PROPOSED SYSTEM

2.1 Architecture Diagram

Fig -1: Architecture Diagram for the Proposed System

Information Architecture: Client Side

First the customers/users will register themselves after successful registration , the customer can then login into the system with valid credentials . If the user forgets the

password he can click on forgot password option and can reset the password . When the user successfully logins to the system he will have access to features that our , the customer will first browse the menu , then he will select the food item of his/her choice , then he/she will add the selected food item to the cart , and will place the order . After that the payment option will be visible to the customer/user . After successful payment or after clicking on the preferable payment option the order confirmation message will appear. So after all this procedure the delivery man will deliver the ordered food to the customer . This is for the customers point of view.
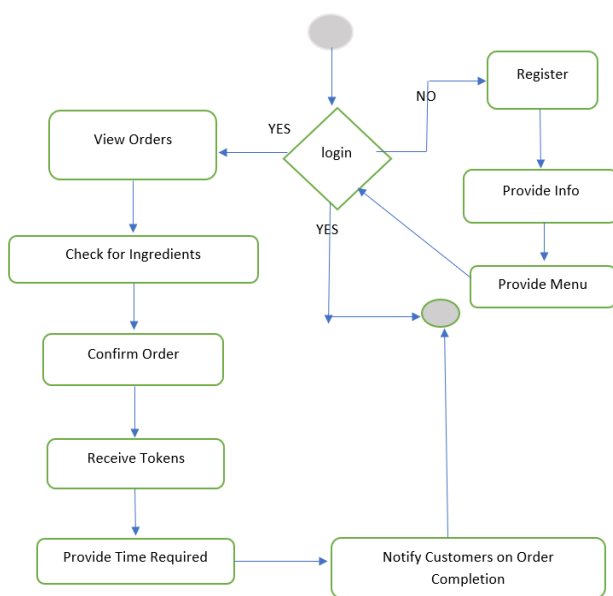
Information Architecture: Admin Side

For admin point of view , you can simply select the login option and enter the valid admin credentials that is valid username and password. The admin has the rights such as to add, delete, change or update the menu . once a specific operation is selected   and the implementation of that operation is done that is add , delete , change or update then the added or updated menu is displayed and if a particular food item has been deleted then it won't be visible in the main menu.

Information Architecture: Delivery Side

For the delivery point of view , when the customer confirms the order and places it after that when the order is ready to deliver the delivery boy will enable it's location which will be visible to the customer so that the customer can keep track and see the exact location of the delivery boy is. After the delivery boy delivers the food at the customers end he will stop the location for that specific customer .

2.2 Activity Diagram

Fig -2: Activity Diagram for the Proposed System

Information Activity Diagram

Whenever the customer/user visit our web base system for the very first time they will have first have to register themselves by proving valid information . If the user is already a registered user then he/she simply have to click of login option by using valid credentials that is username and password. And after the successful login the customer can then browse different types of menu ,can see what are the offers available , And when the customer wants to place a order he simply have to add the food items to the cart , then he/she can check or customize the ingredients of their choice , then once the user does this and save the order then a payment section will open in which there are multiple options available such as google pay, phone pay, debit card and net banking. After that user have to click on confirm order , then once the order is been confirmed by restaurant they will get a notification . The customer can keep track of their orders easily . And once the order is prepared , then the customer can see location of delivery boy who will be delivery the order to the user/customer.

3. LITRETUARE SURVEY

In [1] The system that is proposed in this paper is a "Online food ordering system". The system that is developed eliminates the drawbacks of customer going in person are standing in lines to place the order. The solution provided to overcome this drawback is a easy way to order food online from both restaurants as well from the mess service without facing any errors. This online food ordering system improves the method of taking a customer's order. This system creates a menu of foods that can be ordered online and Customers can easily place orders according to their preferences. Also Customers can simply follow their orders with a meal menu. This system also has a feedback option where users can rate their overall experience of using this system. In addition, the proposed system can make recommendations for different Hotels and also suggest different types of food menu the customer can try.

In [2] The system that is   proposed in this paper is a"Touchpad based food ordering system using android application" , This system is an automated food ordering system which is developed so that the customer as well as the admin can keep the track off all the orders more efficiently   and in an automated way   so there are no situation of data getting lost. The development of this system is done using an android application for tablet PC 's. They have essentially created a food ordering system for various types of foods and restaurants where the user may place an order with a single click with the help of android application. This system was implemented using tablet computers and JAVA, Android, and MySQL were the languages used for the development of this system.

In [3] The system that is proposed in this paper is a "E-Food Cart: An Online Food Ordering Service". This a user friendly

application and designed by taking the reference of already existing food ordering systems or applications such as Zomato , swiggy, uber eats and many more. Unlike the already existing food ordering applications this service mainly focuses on giving opportunities to the small food business or to small vendors who allocated in small towns or places where there are less opportunities to make their business reach people. So this E-Food Cart service makes sure the small businesses can sell their food online , can reach a large number of people and can gain profit. This application is also beneficial to the students to order food online in a more easy way. The one rule of this application is that whenever a new vendor wants to sell their food and wants to make their food menu available on this application they will first have to register themselves for security purpose as their can be chances of fraud. This one added advantage of this service provider application. This system provides positive approach for the college going students as well as provides a strong support for small vendors to expand their business are gain profit. There is only one drawback that needs to be upgrade is the payment procedure with new payment methods such as online money paying facilities such as google pay, phone pay and many more.

In [4] The system that is proposed in this paper is a "Online Food Ordering Application", this application is basically developed particularly for use in the food delivery industry. This system enable hotels and restaurants to expand their company by lowering personnel costs. This system also enables fast and easy management of different food menu that can be visible to the user easily and can order food in more effective and easy manner. This systems makes the admin word easy to keep track of all data , food menu , when to delete , add , change or update menu, All this is done easily without facing any errors and all this is done with help of graphical user interface. This system provides security to all its users by providing unique username and password. It helps customers a lot as they can keep track of their orders and whenever a customers places an order a confirmation mail is also provided in this system. The proposed system also has option of cancelling the order, editing the order and also different payment options are available which makes this system easy to understand.

This [5] paper consists of "A Review of the usable food delivery apps". This paper has overall information of the food delivery applications and their procedure of placing the order via food delivery applications. In many existing systems the orders are taken in manual way . Proposed system has overcome this drawback by storing the data , taking orders in the digital way and has also introduced multi touch technology which allows the users to use digital method for ordering the food.

In [6]this Paper " Designing Food Ordering Application Based on Android", the main aim of this study is to see how effective it is to order meals and drinks using an and his study took a qualitative method, which included observation and

the creation of an Android-based app for ordering food and drinks by android-based app and by ordering them manually. Consumers were given the choice of using the system manually or using the app to measure the performance of the system. According to the findings of this survey, many customers prefer using an app to place order rather than placing them manually. Customers can see and order food and drinks by sitting at home without going in person to place the order when they use this app. It not only makes it easier for customers to order food, but it also makes it easier for restaurant owners to maintain each menu.

In [7] this paper the system that is proposed in this is "The study of interest of consumers In Mobile Food Ordering Apps" , In this paper, a study is conducted to determine consumer interest in mobile food Apps, which will further assist us in determining consumer knowledge of mobile food Apps , valid aspects evaluated when ordering food from a particular app, consumer expectations when ordering from a new app, and different techniques and aspects on which food apps can be equated. The percent of the respondents were found to be aware of using these applications, to make use of the benefits, to order food on a daily basis, and to consider specific aspects when doing so. Research proves that the importance of this app in today's environment and how they have evolved the industry of food service. The goals of this study can be described as to gain a better understanding of consumer knowledge of mobile food apps , To gain a better understanding of the issues that consumers experience when using food apps, To determine what people expect when ordering meals from a new food app and To be aware of the various ways for reviewing online food apps.

4. CONCULSION

An online food ordering web based system is developed so that the customer can order food easily rather than waiting in queue for hours. This website that we have designed is a secure , user friendly food ordering management website . This web based system helps the administrator as well as the customer to easily manage food orders , to browse the menu as well as to customize the menu as per the customers choice. This system also helps the administrator to manage client meals, delivery man data, and assisting in expansion without causing any inconvenience. This system is absolutely safe because each user is given a unique login Credentials, ensuring that no illegal access occurs. It is easier to use with digital payments, registration, and rejection. As a result, this web-based system helps to reduce employment costs while also offering more opportunities for customers to enjoy the services.

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