

Online Food Ordering Management System

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Abstract: Online food ordering management system is a software used to ease the customer's life. Sometimes you don't feel like cooking or doesn't feel like to go to the restaurants, therefore we here propose an Online Food Ordering Management System which can help the customers to get food delivered immediately. This is mostly designed for a single restaurant having various food items at valuable food price. It gives effective way to order your food and almost within no time food will be delivered. Customer, he/she has login form with password in order to secure the information details and then they can select his/her favorite food items, place the order, also mention the quantity and finally can make the payment. When the order is placed, it gets stored in the database of the restaurants and then the staffs go through the orders and processes it efficiently.

Keywords: Dynamic Database Management, Automated Food Ordering System, Service Automation Environment

1. INTRODUCTION

Nowadays, every technical field is trying to style the human life at ease. The past couple years there has been enormous growth of internet restaurants. It's just a single window for ordering from varied series of restaurants. Basically, "Online Food Ordering System" can be defined as a simple and convenient way for the customers to purchase food online, without having to go to the restaurant. This system is very useful to those who are very busy in work or in home and do not have the time to go outside or cook the food. Customers doesn't really need to have technical knowledge to operate it. Because it is designed in very modest way. It provides complete dashboard with information about menus, orders, etc. This system can be used in any online food industry. In short, it's easy, convenient, completely transparent food software and also customer-friendly online ordering system.

2. LITERATURE REVIEW

Industries who lag behind online ordering systems will be left behind from the restaurants who have stepped up. By implementing new technology, it not only benefits customers life but also confirm the business to stand tall. So, here are some of the true benefits of online ordering system:

- With busy lifestyles, most of us lean towards convenience. When the dinners can be ordered from their favorite restaurants faster, easier and at their convenience, they incline more towards the system because their needs are met.

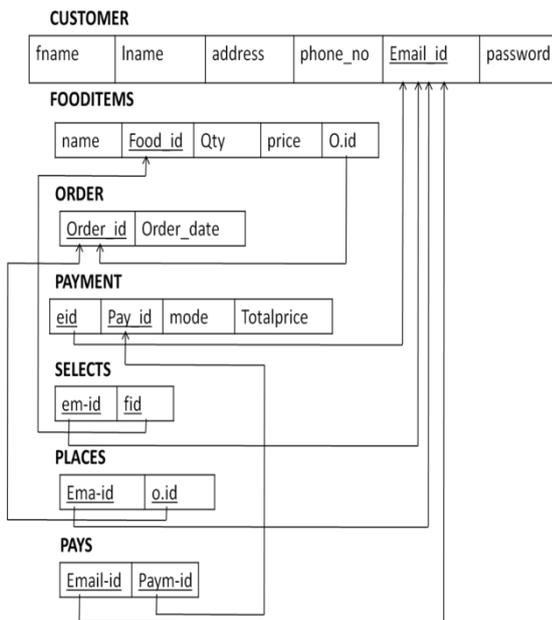
- Online food ordering allows the customers to place their order virtually, anytime from anywhere. This ultimately helps to save the time of the customers which can be consumed certainly on travelling.
- It reduces the labor work. By ordering over an application, it can eventually reduce the staff work because it is replaced by the machine.
- While the order is being taken over phones or in person there might be some misunderstandings and orders might not be that accurate. But by placing it online, it can be more precise and customers have the controls, they can customize the orders again and again and make their order crystal clear.

3. METHODOLOGY

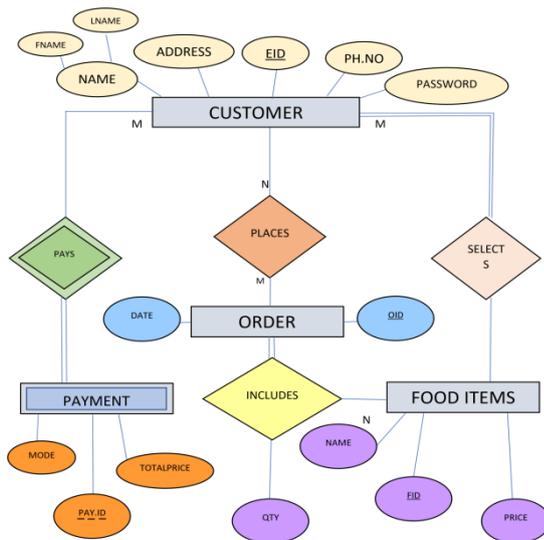
The application starts by displaying the login or registration form. If the user is ordering for first time then, he/she has to first 'Register' and then they can start viewing the deals. Else, if it's not their first time then they have to 'Login' with all the credentials such as filling his/her first name, last name, phone number, Email Id, address and password.

Once he/she has successfully logged in, they will be able to see the 'Home page' with a dashboard of menus, orders and food cart. He/she has to choose their favorite dishes from the menu, then place their favorite dishes in the food cart, this food cart will help them to customize the orders like increasing the quantity, removing the food items etc. Once he/she is done customizing their orders, they can checkout and will be redirected to the final order page including their personal details, their orders, total amount to be paid with appropriate payment method. Lastly, they can just pay the amount by selecting the payment method of their choice and simply log-out. Below shown are the ER diagrams that are used to construct this application fig1(a), fig1(b).

This above simulation flow is with respect to customers point of view. And the restaurant manager or staff can keep on track of the orders by viewing the database or by the notification.



(a)



(b)

Fig.1(a)Initial Relational model from ER model, (b) ER model representation of online food ordering system.

4. SOFTWARE REQUIREMENTS

Below mentioned are the modules we have used in our project Online food ordering system,

- **HTML** (Hypertext Markup Language) is the most basic building block of the Web. It defines the meaning and structure of web content. Each page contains a series of connections to other pages called hyperlinks. Every web page you see on the Internet is written using one version of HTML code or another.

- **Cascading Style Sheets (CSS)** is a simple mechanism for adding styles (e.g., fonts, colors, spacing) to Web documents. CSS defines how HTML elements are to be presented on screen, paper, or in other media. CSS saves a lot of work. It can control the layout of multiple web pages all at once.

PHP is a server-side scripting language. that is used to develop Static websites or Dynamic websites or Web applications. PHP stands for Hypertext Preprocessor, which earlier stood for Personal Home Pages. PHP scripts can only be interpreted on a server that has PHP installed.

As mentioned above HTML CSS and PHP are the languages used in this project. As php is server-side language it requires a server to be interpreted. Therefore, we have used WAMP server.

WAMP SERVER: WampServer refers to a software stack for the Microsoft Windows operating system, created by Romain Bourdon and consisting of the Apache web server, MySQL database and PHP programming language.

The database language used in our project,

MySQL: MySQL is a relational database management system based on SQL – Structured Query Language. The most common use for MySQL, however, is for the purpose of a web database. Standard SQL commands such as ADD, DROP, INSERT and UPDATE can be used in MYSQL.

Advantages of MySQL:

- High speed, using the SQL queries, the user can quickly and efficiently retrieve a large amount of records from a database.
- In the SQL standard, it is very easy to manage the database system.

5. RESULTS

Below are some of the results/consequences obtained from this online food ordering management system software:

- Offering Online food ordering helps the customers to place order more conveniently.
- Traditional long queues to fetch the food or the take-outs will no longer exist.
- This proposed system can even be used by the customers with no such technical background.
- Labor work is almost reduced.
- Also, people can have food from their favorite restaurants. Just 'one click' and their favorite restaurants delicious food will be right at the door.

- Last but not least, it saves the customer time and that time can be used by customers into something more productive.

From Fig.2(a)-(d) are some of the snapshots of our online food ordering system.



Fig.2(a). The above snap is of the Login/Registration page of Our Online food ordering system



Fig.2(b). The above snapshot is of the home page.



Fig.2(c). The above snapshot is of the food cart



Fig.2(d). The above snapshot is of the log out page after confirmation of the order.

6. DISCUSSIONS

Convenience is all what the customers are looking for. After a hectic long day, when they come home and so tired to cook the food, will surely aid them to order online food. They don't have to stand in those long queues in restaurants. This online food order will surely benefit the restaurants business. Customer can easily operate this application. The restaurants staff work will be reduced as the waiter doesn't need to wait in front of the customers for them to order besides, the waiter can be easily annoyed if the customer keeps on customizing their order. But in the online food ordering system he/she can customize as many times as they want and then finalize the order. It doesn't involve any human intervention hence its fully automated. Hence it is an efficient and affordable interface.

7. CONCLUSIONS

In this paper, we have presented that why and how the online food ordering systems can be used and built. This online food ordering systems is built for the customers who are dealing with busy lives, this could help them to save some of their time. With private login system customer can place a secure online order and also can view or receive the updates in real-time. It allows the customers to navigate through the menus and customize their orders. Our experience in developing this software was to show the abilities of wireless communication and in refining the business management and decent service delivery. Generally, the customers who keep on visiting the restaurants are facing problems may be in terms of time, weather, etc. By this application the customer can access their adored food in their place itself. Moreover, this application is useful to all the introverts who hesitate to interact with others. This application does not take much time to order or the delivery of food. It is very simple to use and it gives an efficient way also.

This designed project is customer friendly and can be used efficiently for storing the customer details, orders, payment options, etc. Thus, this system is user-friendly, convenient and effective so that improves the restaurants performance.

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