Online Food Order Application Using Django

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ABSTRACT

With the growing popularity of food delivery, conventional phone order has become inconvenient for both customers and food delivery stores. People are concerned about how to make food delivery more timely and convenient. As a result, this research investigates and creates new takeaway apps that are simpler and more object-oriented than existing apps. Food delivery should be timely, convenient, and comprehensive. Many food delivery systems exist today, but their functions are not comprehensive, and some do not meet the requirements of timely delivery, friendliness, payment is too simple, the layout is too rigid, and information updates are not timely enough. An Online Food Ordering System that simplifies the food ordering procedure is proposed here. The proposed system updates the menu with all available options, easing the customer's job. Customers can place orders for multiple items and check order details before logging out. The customer receives an order confirmation. The order is queued, updated in the database, and returned in real-time. This technology enables personnel to go over orders in real-time and process them efficiently and with few errors.

Keywords: Online Food.

I.   INTRODUCTION

Nowadays, digital business platforms are very popular and save us much effort and time in our daily life. E-commerce companies such as Amazon and Ebay could deliver goods to customers very efficiently. On the one hand, customers could select goods and place orders online without visiting the shop, which is usually time-consuming. Besides, they do not need to carry the goods to home. Instead, the shop would deliver the goods and save customers' efforts. On the other hand, using digital business platforms could make it more convenient for shop owners to manage orders, collect and analyse data and provide better service. In the catering industry, the demand of combining the convenience of digital business with their traditional delivery service is increasingly growing. Unlike common e-commerce companies, the restaurants usually could deliver food in less than half an hour and actually saves customers' time when compared to visiting the restaurants.

In order to stand out in the digital business trend of catering industry and provide more satisfying service, we designed this Pizza Hot project. Customers usually expect fast delivery and food in good condition to eat. So in order to adapt to customers' expectation and earn more profits for restaurant owners, we improved the traditional digital business platform. In addition to the general functionalities of e-commerce platform, we developed a hardware system which is intended to be put in the delivery box. After the restaurant receives customers' orders and the dishes are ready to deliver, the delivery man put the portable system in the delivery box. The system could record the temperature in the box and the time of delivery. After the dishes arrives, it will calculate a suggested tip for customers based on temperature, time and distance the delivery man covered. If the food's temperature is suitable, the tips

could be higher and otherwise the system gives a discount. In this way, we could realize a win-win relationship between customer and restaurants. Customers can expect fast delivery and hot food. Restaurants can make more money by providing good service, which also helps them stands out among competitors. Delivery staffs will be provided information for more efficient operations such as turn by turn navigation.

The online food ordering system provides convenience for the customers. It overcomes the disadvantages of the traditional queuing system. This system increases the takeaway of foods than visitors. Therefore, this system enhances the speed and standardization of taking the order from the customer.

It provides a better communication platform. The user's details are noted electronically.

The online food ordering system set up menu online and the customers easily places the order with a simple mouse click. Also with a food menu online you can easily track the orders, maintain customer's database and improve your food delivery service. This system allows the user to select the desired food items from the displayed menu. The user orders the food items. The payment can be made online or pay-on-delivery system. The user's details are maintained confidential because it maintains a separate account for each user. An id and password is provided for each user. Therefore it provides a more secured ordering.
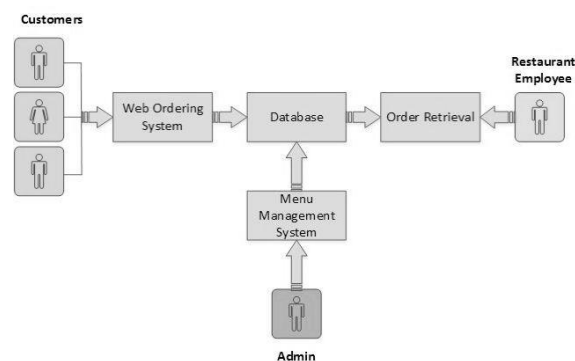
It is known globally that, in today's market, it is extremely difficult to start a new small-scale business and live-through the competition from the well-established and settled owners. In fast paced time of today, when everyone is squeezed for time, the majority of people are finicky when it comes to placing a food order. The customers of today are not only attracted because placing an order online is very convenient but also because they have visibility into the items offered, price and extremely simplified navigation for the order.

Online food ordering system that I am proposing here, greatly simplifies the ordering process for both the customer and the restaurant. System presents an interactive and up-to-date menu with all available options in an easy to use manner. Customer can choose one or more items to place an order which will land in the Cart. Customer can view all the order details in the cart before checking out. At the end, customer gets order confirmation details. Once the order is placed it is entered in the database and retrieved in pretty much real time. This allows Restaurant Employees to quickly go through the orders as they are received and process all orders efficiently and effectively with minimal delays and confusion.

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OBJECTIVE

This Project is aimed to provide

✓   An order system on multi-platforms for customers to select dishes and place orders
✓   A convenient management dashboard for restaurant manager to easily manage the whole system
✓   A smart delivering system for helping delivery staff improves the quality of delivery service

II.   SYSTEM ANALYSIS

System analysis is the process of gathering and interpreting facts, diagnosing problems and using the information to recommend improvements on the system. System analysis is a problem solving activity that requires intensive communication between the system users and system developers.

System analysis or study is an important phase of any system development process. The system is viewed as a whole, the inputs are identified and the system is subjected to close study to identify the problem areas. The solutions are given as a proposal. The proposal is reviewed on user request and suitable changes are made. This loop ends as soon as the user is satisfied with the proposal.

EXISTING SYSTEM AND PROPOSED SYSTEM

After analyzing the necessities of the task to be performed, the next step is to analyze the problem and understand its context. The first activity in the phase is studying the existing system and other is to understand the necessities and domain of the new system. Both the behaviors are equally significant, but the first movement serves as a basis of giving the purposeful specifications and then winning design of the proposed system. Understanding the properties and necessities of a new system is more difficult and requires creative thinking and understanding of existing running system is also difficult, improper understanding of present system can lead diversion from solution.

Existing System

Drawbacks of Existing System

- ❖ As the current system is totally manual
- ❖ Existing system is manually, so it increases the chances of errors.
- ❖ Lot of the time consumed for each report generation
- ❖ Immediate response to the query's is difficult
- ❖ More stationary use so they are expensive
- ❖ Manual systems are takes more time
- ❖ More man power.
- ❖ Consumes large volume of pare work.
- ❖ Damage of machines due to lack of attention.

Proposed system

The aim of proposed system is to develop a system of improved facilities. The proposed system can overcome all the limitations of the existing system. The system provides proper security and reduces the manual work. The existing system has several disadvantages and many more difficulties to work well. The proposed system tries to eliminate or reduce these difficulties up to some extent. The proposed system will help the user to reduce the workload and mental conflict. The proposed system helps the user to work user friendly and he can easily do his jobs without time lagging.

Expected Advantages of Proposed System

The system is very simple in design and to implement. The system requires very low system resources and the system will work in almost all configurations. It has got following features

- ❖ System can generate immediately getting the data and report.
- ❖ Avoid stationary expense
- ❖ New system provide online payment facility
- ❖ Any record is easy to store and manage
- ❖ Easy to solve customer query
- ❖ Provide better security in new system
- ❖ Give the feedback answer
- ❖ Ensure data accuracy's.
- ❖ Proper control of the higher officials.
- ❖ Reduce the damages of the machines.
- ❖ Minimize manual data entry.
- ❖ Minimum time needed for the various processing.
- ❖ Greater efficiency.
- ❖ Better service.
- ❖ User friendliness and interactive.
- ❖ Minimum time required.

III.   SCREEN SHOTS
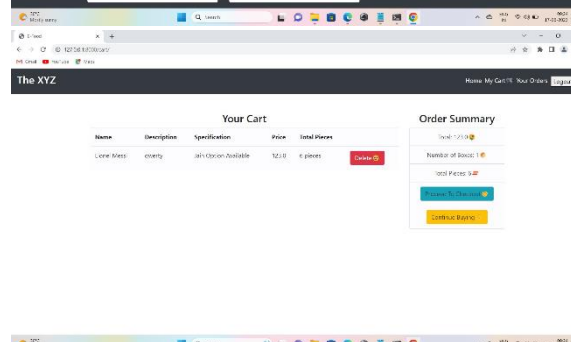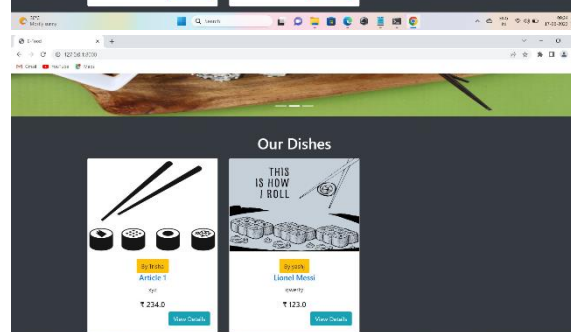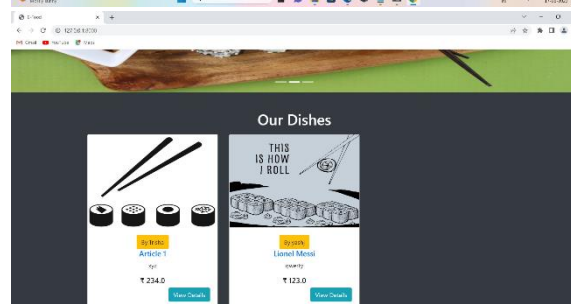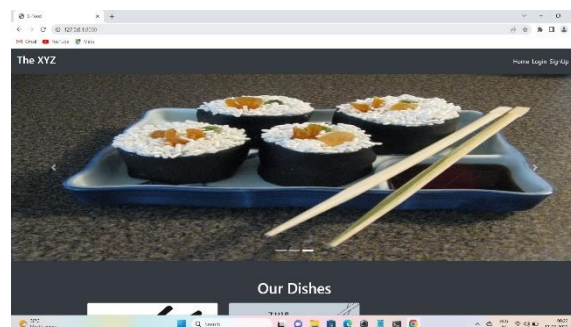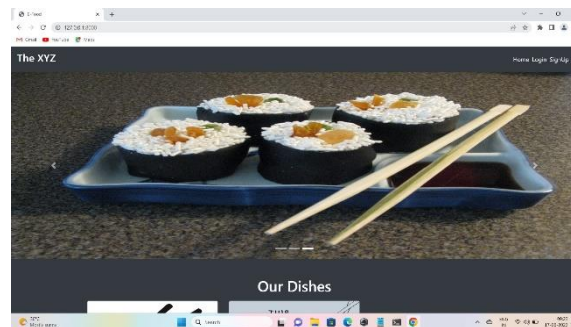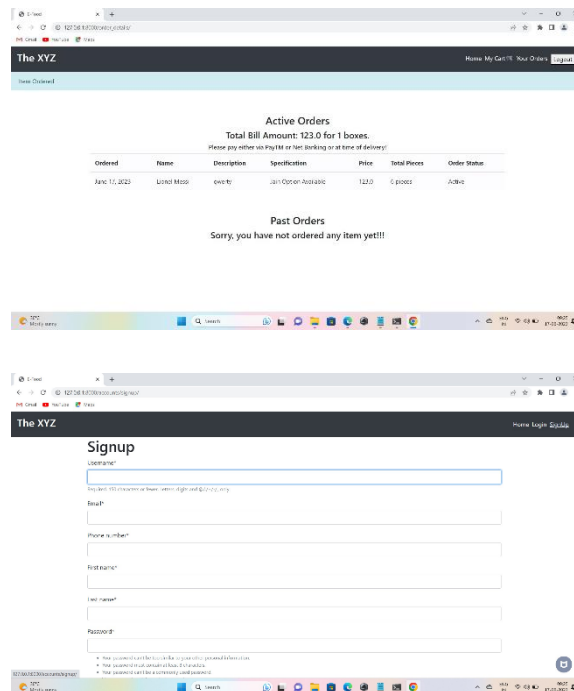
IV.   CONCLUSION

The software development is never completed. There is always a need for modification. There could have been other approaches to implement the system. I have tried to my level best to make the system an interactive as possible. The system has been developed with much care and free of errors and at the same time it is efficient and less time consuming. The purpose of this project was to develop a web application for purchasing items from a shop.

This project helped us in gaining valuable information and practical knowledge on several topics like designing web pages using html & css, usage of responsive templates, designing of android applications, and management of database using mysql. The entire system is secured. Also the project helped us understanding about the development phases of a project and software development life cycle. We learned how to test different features of a project.

This project has given us great satisfaction in having designed an application which can be implemented to any nearby shops or branded shops selling various kinds of products by simple modifications.

BIBLIOGRAPHY

During the development of our system, we have taken the reference from Books and journals, which we would like to mention in this section.

These books acted as our tutors during the system development.. System Analysis and Design

-        Kenneth E. Kendall, Julie E. Kendall

An Analysis and Design of Information Systems
-        Grayce M. BoothSoftware Engineering
-        Roger S. Pressman

Database Management System
- James A. LarsonPHP: A Beginner's Guide
- RiwantoMegosinarso

These are the following links which assist me at each and every step in completing this project, without them
✓ www.google.com
✓ www.mysql.com
✓ http://en.wikipedia.org/wiki/Recruitment
✓ www.w3schools.com
✓ www.google.co.in
✓ http://www.recruitmentsystems.com/
✓ http://www.codeproject.com/KB/architecture/OOP_Concepts_and_manymore.aspx
✓ http://en.wikipedia.org/wiki/Human_resource_management
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