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Smart Meals

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ABSTRACT

Online business, also known as e-commerce or electronic commerce, refers to transaction and the activities that have been performed by the customers and seller over the business is facilitated by the web based technologies. Online food delivery system is one of the most popular online business products. Customers are able to view and select their favourite food from the list, add to the cart, choose the delivery types, make payments and the order is complete.

Keywords : Automated Food Ordering System, Dynamic Database Management, Global Positioning System

I. INTRODUCTION

With the online food ordering system, food is delivered online to the customer. This is possible using electronic gadgets. Due to rapid growth in the use of internet and the technologies associated with it, several opportunities are coming up on the web. So many business and companies are undertaking into their business because of internet.

In this project, an efficient online food ordering system is proposed. By using the shortest path algorithm, we have established a system to reduce the time consumption of the customers. Also we have used Heuristic algorithm for the same. In today's world, Android and IOS operating system are more popular.

Different types of programming language is used for such operating system. So, in order to mitigate these problems, web base solutions can be used. Here we came with a food delivery application, where the application front end is developed using .NET technology and the back end is developed by using MySQL.

Thus time as well as cost of the developers will be reduced. In our system the user will first register and login themselves into the database. So that he/she can then order their food and make their transaction happen.

II. PROBLEM STATEMENT

To create a database of the eating joints falling within the origin and destination points of the journey and placing the orders as per the available menu at particulars eating joint with the time of service. Our idea is to develop an application that provides the travellers, the meal without any time consumption. Basically the application will contain the information about the hotels i.e. the eating joints that will provide the food to the travellers.

III. LITERATURE REVIEW

In [1] a food ordering system is proposed with Delivery Routing Optimization using GPS Technology and Google Maps. In this paper they have explained about the use of GPS and Google Map for ordering purpose. The major problem in this paper is routing optimization. The system also uses GPS in Android mobiles and take advantage of Google Map for map solution.

In [2] a Digital Ordering System for Restaurant using Android was proposed. In this application they combine the hotel management system by web technologies. Digital Hotel Management combines lots of system of restaurant and hotels such as Ordering System Kitchen Order Ticket, Billing System Customer Relationship Management System together. This combine solution can add or expand the software system in any size of hotel chain environment. This system increases the speed of service and quality. This system also increases attraction of many customers.

In [3] this system explained Implementing Customizable Online Food Ordering System Using Web Based Application. Previously the process requires that the customer has to be seated in the hotels before starting. An alternative method of this for the customer is that 'Food Pre-Ordering System using Web Based Application' in which customer can be able to do the order before they approach to the hotel, the saved order can be confirmed by touching the smartphones. The list of theie selected order items shall be shown on the kitchen screen, and when confirmed, order slip shall be printed for further processing. This solution provides the easy and convenient way to select the order transaction from customers.

In [4] an Implementation of Smart Restaurant with e-menu card is proposed. Lots of work have been done by the restaurant owners to adopt information and communication technologies like PDA, wireless LANs, costly multi-touch screens, etc. to enhance the dining experience. This paper highlights limitations based on PDA base food ordering system using an android smartphone or tablet as a solution. The customer tablet, kitchen display connects with each other through Wi-Fi. Orders did by the customer then reach the kitchen module instantly. This wireless application is user friendly which improves accuracy and efficiency for hotels by saving their time, reduces human errors and provides customer feedback.

IV. PROPOSED SYSTEM

To overcome the limitations of the above system, an Online Food Ordering System based on web based technologies is proposed. Here .NET technology is mainly used. Our main objective in the project is in designing completely automated menu in hotels with the help of Android phones using Wi-Fi module and to provide a user-friendly environment. The menu will be displayed automatically on the customer mobile application using wireless connectivity and we can directly order the menu with the help of press on the menu. The greatest advantage of this system is its flexibility.

ASP.NET is an open-source server side web application framework which is designed for web development to produce dynamic web-sites, web-applications and web services.

There are following steps in our process which first includes that the customer has to log in to our system. If he is new to the system, he need to first register himself and then log in to the system. The next page that will appear will be the menu card where the customer needs to choose the items from the list and place his order. This order is collected and acknowledge by our system. After this he has to fill all regarding details like his credit card details, etc.

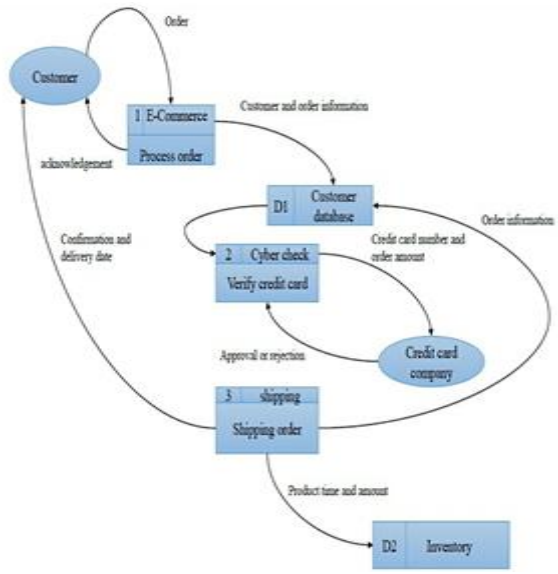
Now the verification of the customer details will be done to see that whether it is valid or invalid. So for this we have to contact the credit card company. After this if we find all the details correct in all means then the order is placed successfully. But if given details mismatch then the order will be cancelled.

Now, the last step is to make the product ready and get the delivery.

ADVANTAGES

- Online Ordering and easy to use for all.
- Freedom for demanding food.
- Food available on decided places.
- Remove time consumption.
- Meal comes with good packing.
- Hygiene has first priority.
- Hassle-free food preparation.

FLOW DIAGRAM



V. CONCLUSION

In this project, we have worked on the A* algorithm for GPS tracking, All Pair Shortest Path Algorithm for finding the nearest route of the customer, Heuristic Search algorithm for again to find out the shortest path. In this project through .NET technology we have created login page, checking our password and through MySQL we created database. After login our site will show variety of nearby hotels through which a customer can order the meals.

In the future research, we suggest adding more variable for routing optimization process such as type vehicle, the size of food packages, holiday session the driver license type owned by delivery service and the maximum capacity of the vehicle type. These additional variables will add the complexity to our application. This system can also enhance to produce an online system by adding the email notification feature for order confirmation with official receipt.

VI. ACKNOWLEDGMENT

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