Digital Ordering System for Restaurants

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Abstract: Automation systems are increasing in World. Applications like home and industrial automation reduce man power while increasing the efficiency. Here in this restaurant menu ordering system that lets you automate menu for ordering food in restaurants. They also require very fast processing for serving food to the customer. With the increasing number of customers, it would require more man power, since the current situation has become hectic for the restaurants. Also changes in the hardcopy of the menu can’t happen. Using simple mobile app and television, an automation system was proposed.

In these modern days the numbers of restaurants are increasing, the proposed system provides better Service efficiency as compared to existing system.

I. INTRODUCTION

Automation systems are increasing in day to day life. Applications like home and industrial automation reduce man power while increasing the efficiency. Here in this restaurant menu ordering system that lets you automate menu for ordering food in restaurants. In these modern days the numbers of restaurants are increasing. They also require very fast processing for serving food to the customers. With the increasing number of customers, it would require more man power, since the current situation has become hectic for the restaurants.

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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. Here in this proposed system for restaurant menu ordering system that lets you automate menu for ordering food in restaurants. In these modern days the numbers of restaurants are increasing. They also require very fast processing for serving food to the customers. With the increasing number of customers, it would require more man power, since the current situation has become hectic for the restaurants. Also changes in the hardcopy of the menu can’t happen. Using simple mobile app and television, an automation system was proposed.

There are many reasons leading to the feeling of dissatisfaction including being entertained late in terms of order taking by the waiter and meals serving.

This study names the system as Digital Ordering System for Restaurant Using Android (DOSRUA). In definition, DOSRUA is an integrated system, developing to assist restaurant management groups by enabling customers to immediately make orders on their own selves.

This will minimize the number of minutes to wait for the meal serving. This project deals with Digital ordering system for restaurant. This topic includes scope of the project, project characteristics, operating environments.

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.

II. OBJECTIVE
The general objective of the study is to develop a reliable, convenient and accurate Ordering System. The study has the following specific objectives:

To develop a system that will surely satisfied the customer service. To design a system able to accommodate huge amount of orders at a time. To improve the communication between the client and the server and minimize the time of ordering.

One of the main objectives of a restaurant to ensure customer satisfaction. Manual listing of orders by the waiters/waitresses may result to slow response in customer service.

Hence, if the restaurant uses the proposed system, manipulation of orders to the customers is so easy and quick by just touching on the tablet and choosing the desired menu, to automatically compute the bill.

The system will also automatically calculate and displays the final bill so the bills will ready to print without having any error because the information for that item is already inserted.

To evaluate its performance and acceptability in terms of security, user-friendliness, accuracy and reliability.

Assumption, dependencies, design and implementation constraints. Scope of the project includes features that can be implemented. Design part includes the method and way of designing the product. It also explains certain constraints on designing and implementation.

III. PROPOSED METHODOLOGY

In this diagram, there are the some tablets on each table having the DOSR software application. When the user use application and Place an order from the menu list, the ordered list can be seen on the kitchen display. The cart and view detailed information about the order: The users can add any number of items to the cart from any of the available food categories by simply clicking the Add to Cart button for each item.

The user to process the payment, This is achieved when user selects “Processed to Payment” button and fill up the Payment information details.

The user is given the order conformation along with success message and same process of confirmation Payment will Work for offline Payment customers.

All the messages and protocols controlled by the server and will update and maintain the database.

Fig 4.1: Proposed System Architecture
Above given is the basic flow diagram of the project.

IV. EXPECTED OUTCOME
IV. CONCLUSION

On each table, the tablet having the DOSR software application. When the user use application and Place an order from the menu list, the ordered list can be seen on the kitchen display. As Food is ready and food will be served to the customer. The customer can initiate payment and the customer is given the order confirmation along with success message and same process of confirmation Payment will Work for offline Payment customers too.

FUTURE SCOPE

Cloud computing is a vast concept and load Balancing pays very important role in case of cloud. There is a huge scope of improvement in this area.

1. Permitting larger File Size Currently we are allowing only files whose size are less than or equal to 512MB. Hence in future we are going to try and enable user to allow users to upload a file of larger size.

2. Reduce the Time Complexity: As the system deals with large amount of files, hence the time complexity is more. And also as the size of file increases the time complexity increases. Hence some other techniques can be used so that time complexity should be reduced as much as possible.

3. Using Different Algorithms: Any algorithms which are better than AES should be used so that more accuracy and less time complexity can be achieved than that of AES algorithm.
REFERENCES


