

ANDROID BASED ORDERING SYSTEM FOR RESTAURANT

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ABSTRACT

Now a day's web services technology is widely used to integrate heterogeneous systems and develop new applications. Here an application of integration of hotel management systems by web services technology is presented. Digital Hotel Management integrates lots of systems of hotel industry such as Ordering System Kitchen Order Ticket (KOT), Billing System, Customer Relationship Management system (CRM) together. This integration solution can add or expand hotel software system in any size of hotel chains environment. This system increases quality and speed of service. This system also increases attraction of place for large range of customers. Implementing this system gives a cost-efficient opportunity to give your customers a better service experience where waiter are in control choosing what customer want, when they want it from dining to ordering to payment and feedback. We are implementing this system using android application for Tablet PC's. The front end will be developed using JAVA Android and the backend will work on My-SQL database.

Keywords: *Android Device, WI-FI Router, My-sql Server, Eclipse software, PHP Language, Printeretc.*

I. INTRODUCTION

The Advancement In Information And Communication Technology Has Greatly Influenced The Business Transactions. The Adoption Of Wireless Technology & Emergence Of Mobile Devices Has Led To Automation In The Hospitality Industry. Business In Hospitality Industry Such As Restaurants Can Be Improved With The Combination Of Wireless And Mobile Technologies. The Competition In Restaurant Business Has Increased With The Advancements In Food Ordering Techniques. It Is A Wireless Food Ordering System Which Made The Use Of Smart Phones To Place Orders. Taking An Idea Form This System We Have Proposed Our System, Which Is Specially Designed For Android Devices. This Project Highlights The Low Cost Android Based Restaurant Management System Using An Android Smartphone Or Tablet As A Solution. The System Consists Of A Smartphone/Tablet At The Waiter Contains The Android Application With All The Menu Details. The Waiter Device, Kitchen Display Connects Directly With Each Other Through wi- fi. orders selected by the customers will be instantly reach the kitchen module. this wireless application is user-friendly, improves efficiency and accuracy for restaurants by saving time, reduces human errors.

II. Objective

The objectives of proposed work are as follows:

- 1) To develop android application for restaurant ordering system.
- 2) Facility to update the menu.
- 3) To develop a software at kitchen and cashier to receive order from waiter.
- 4) To print the bill at cashier side.
- 5) To establish Wi-Fi network for kitchen cashier and android device.

III.METHODOLOGY

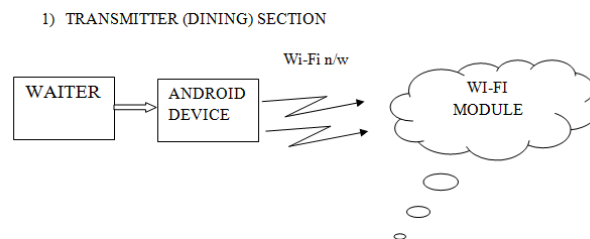


Fig.5. 1 Transmitter section

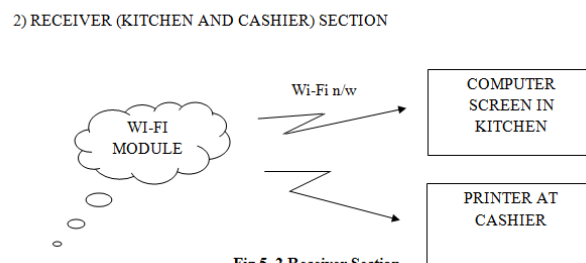


Fig.5. 2 Receiver Section

IV.WORKING

Our main aim is to increase the efficiency of the food ordering system and reduce human errors and provide high quality services to the customers of the restaurants. The application on the tablets must be able to communicate wirelessly with the other devices. Fig.1 shows the dining section that is waiter with mobile placing an order. Fig. 2 shows kitchen and cashier section. And Fig. 3 shows flow chart of the system.

Firstly the person at the reception is empowered to allot the suitable of table(s) to the customers.

- The customer sees the categorized menu card on the table.
- The waiter or waitress inputs the orders into the handheld android device.
- The orders are sent to the kitchen via Wi-Fi.
- The kitchen staff sends a notification whether the food is available or not.
- When the kitchen staff sends a notification that the food has been prepared, the waiter in the kitchen serves the food at the respective table.
- If there is a need for modification in the food menu, the manager modifies the menu. The menu gets changed in the database. The changed menu then gets updated on the waiter's android device.

- The print of bill also will get from receiver sections printer.

Flow chart:

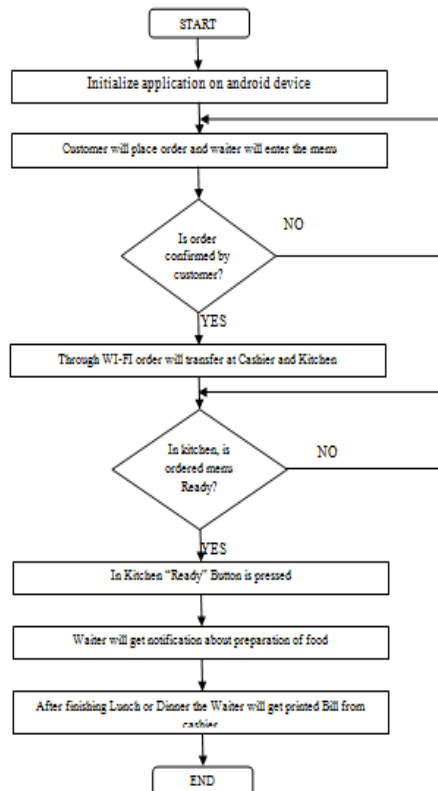


Fig.5.3 Flow Chart for Ordering System

V.FUTURE SCOPE

- Online food ordering system for particular restaurant from home using internet.
- Mentioning of preparation time of food that will helpful to customers in their busy schedule.

VI. CONCLUSION

The proposed system would attract customers and also adds to the efficiency of maintaining the restaurant's ordering and billing sections.

VII. ACKNOELEDGEMENT

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