Menu Ordering System Using Microcontroller

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Abstract: **The system is implemented to reduce the manpower and enhances the accuracy of work in a restaurant. This system wake to provide service facility to restaurant and also the customer.**

Keywords: **microcontroller**

1. Introduction

Automatic systems are increases in our day to day life. Application like home appliances and industrial automation reduce man power and increasing efficiency. Here restaurant management system that automate menu for ordering food in restaurants. In this modern day number of restaurant are increasing. They also required very fast processing for serving to the customers. With the increasing number of customer, it would be requiring more man power, since the current situation has become hectic for the restaurant. Also change the hardcopy of the menu can't happen.

Using simple component and programming techniques, an automation system is proposed. Menu is displayed on the LCD. User should be press the corresponding number of selected items from the display.
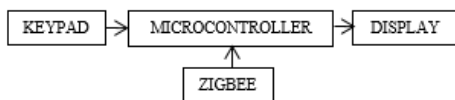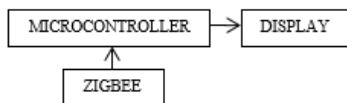
2. Block diagram

Fig. 1. Transmitter section

Fig. 2. Receiver section

A. Block diagram description

Transmitter section: A keypad is used to select the items. Menu is displayed on LCD. A number is indicated for each item in the menu. It is selected by using keypad. In case if touch panel is used there is no need of using a keypad. Zigbee transmitter is used to transfer the menu. Receiver section: Receiver is arranged in kitchen. Receiver section consists of a microcontroller, zigbee receiver, LCD. Multiple receivers can be connected on the zigbee network. Zigbee defined has a rate of 250kbits/s. On the receiver side order the menu is received from multiple transmitters. The data received from the transmitter is displayed on the LCD.
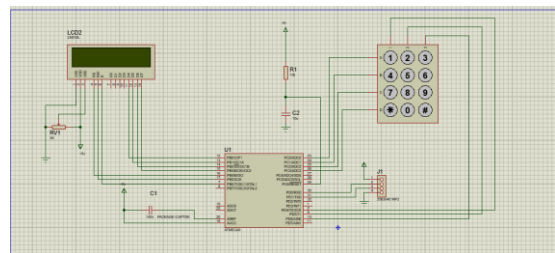
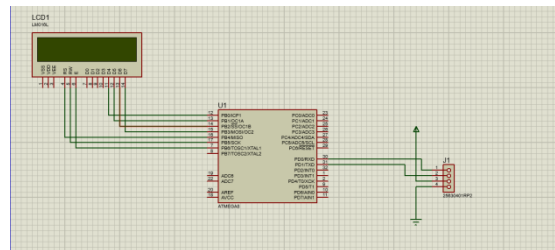## 3. Circuit diagram

Fig. 3. Transmitter section

Fig. 4. Receiver section

A. Description of circuit diagram

In circuit diagram Microcontroller (Atmega8) has connected with the Graphics Display, Keypad and Zigbee module. From the basis of block diagram we can connect four pin connector instead of zigbee module and input is given to the microcontroller at Port C. Input received from the Port C where we connected keypad or touch panel microcontroller gives the output to Port B. The output of the microcontroller at transmitter side is menu card and the output at receiver side is the ordered menu which ordered by customer.

4. Result

The LCD display displays the menu card on the table of customer and then transmitter section takes the order from customer and it send to receiver section through the zigbee module. After that receiver side displays the order of each table by the given table number.

5. Conclusion

The project entitled "Restaurant Management System" has been proposed to be implementing to replace the manual

International Journal of Research in Engineering, Science and Management
Volume-2, Issue-10, October-2019
www.ijresm.com | ISSN (Online): 2581-5792

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system. The whole management system is designed for a general computerized digital restaurant so that any restaurant owner can get it and can start automated process to his restaurant.

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