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Automatic Smart Restaurant Using Arduino Uno

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ABSTRACT: Manytimes in hotel we have to wait for a waiter to give our order for food. This creates problem when there is rush in hotel especially in festival seasons and generally on weekends. Main intention of our project is to avoid such problems and to give solutions to such problems. In this project a Touch screen panel will placed on every table. Whenever customers come to their table then they will select the desired order menus from the touchscreen. For example: suppose users have selected menu no 1,5,3 so on and once he/she is done then he/she can press enter/confirm key. At this time information will be sent to the kitchen of the hotel. All this information will be displayed on a computer display. For this purpose we have used a wireless RF transmitter at the customer table side. And wireless RF receiver at the kitchen side. So orders will be directly sent to the kitchen and users dont have to wait for the waiter. And at the same time LCD will display the total

I. INTRODUCTION

Rapidly changing the word and becoming more closer to a digital and smarter world People are rapidly moving towards a smarter world, with implementation of smart cities, smart classrooms and smart phones. At present, information and communication technology has been brought to a number of business models in order to make the operation more convenient and effective. Restaurant Management can be more efficient with the help of for moving towards a smarter society, the hospitality and services sector still doesn't see an implementation of smart technology.

As the standard of living is improving, people are spending more on luxury dining. People are nowadays more meticulous on the ambience and services provided. The traditional system of restaurant working is encountering a lot of day to day problems with most of the operations done by hand, waiters rushing around with hardbound menus, data and information maintenance inability increasing the system inefficiency and probability of error.

The Smart Restaurant takes into account of all the small and large scale errors, providing a very efficient and effective way of system maintainace and delivery . It will help to reduce man work . As well help to save money as well as time . It will to make our life more efficient

1.1 Objectives

The main objective of the study is to solve the restaurant issue like serving food within time without delay. The other objectives are given below:

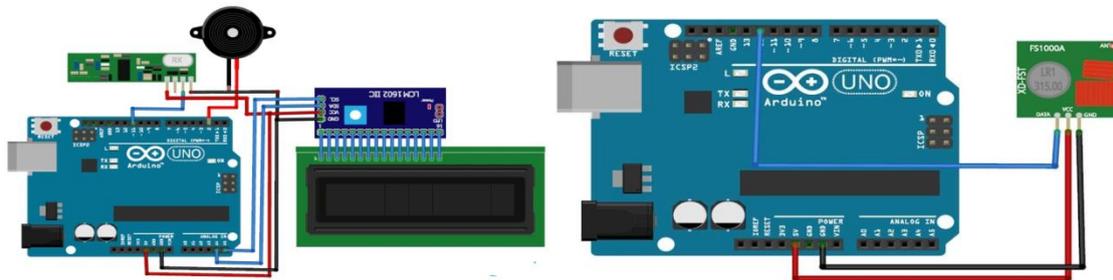
- a. To reduce the manpower
- b. To reduce the mistake by waiters.
- c. To increase custmore comfortability
- d. Custmore take their time for ordering the food.

E. To reduce the monthly cost pay employees

II. COMPONENTS

List Of Components:

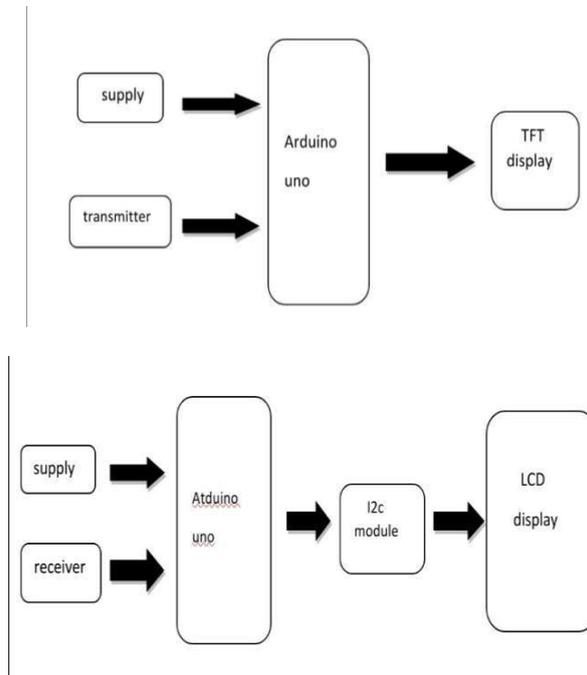
- TFTLCD
- Arduino UNO
- I2CModule
- LCD Display
- Transmitter and Receiver
- Power Supply



III. METHODOLOGY

The basic methodology of this project is using digital technology. When customer enter the restaurant they choose their table after that they use touch screen lcd display for ordering the food. Touch screen is work as switch. The menu is displayed on touch screen display.

The arduino uno board is used as a transmitter or a The circuit design shown in fig shows Transmitter section :Supply and transmitter is connected to arduino uno and then it connected to I2C module and finally it connected to lcd display Receiver section: Supply and receiver is connected to arduino uno and it finally connected to tft display When the customer order food by using touch screen lcd display then this order is sent via transmitter to I2C module and it connected to lcd display is used for converting the binary code sent by transmitter sent into character and then it sent to receiver section it received by tft lcd display. After receiving the order t chief started to make food and they serve the food after the customer got their order . Delivery status is dispalyed in kitchen and manger also so manager sent the bill to customer. It is whole methodology of this project receiver section. If customer order the food then this order is sent via transmitter Section to receiver section. But before reaching the receiver section this data is sent I2C model. This is used as a communication system or communication protocol this established between twoIC'Sthat'swhyitisknownasI2Cmodule.They are located on pcbs.finally the ordered item name displayed on lcd display. Lcd is flat pannel display is used for displaying order. After that in this will sent to receiver section . The receiver section container duino unokit for processing the data. At the end the the ordered item or food name displayed on tft display. In the whole process. The circuit design shown in fig b shows Transmitter section :Supply and transmitter is connected to arduino uno and then it connected to I2C module and finally it connected to lcd display Receiver section fig c Supply and receiver is connected to arduino uno and it finally connected to tft display When the customer order food by using touch screen lcd display then this order is sent via transmiiter to I2C module and it connected to lcd display is used for converting the binary code sent by transmiiter sent into character and then it sent to receiver section it received by tft lcd display. After receiving the order t chief started to make food and they serve the food after the custmore got their order . Delivery status is dispalyed in kitchen and manger also so manager sent the bill to custmore. It is whole methadolgy of this project.



IV. CONCLUSIONS

An automatic smart restaurant is the best replacement of normal and regular fashion designed restaurant. It plays important role our life. The most important thing in our lives is food. So by making restaurant more smarter that means we are making more people to eat food as well good food with a well enabled manner without any error or bagage. It help to reduce human stress as well human work.

There is great advancement in technology due to its features like low cost and ease of use. This technology allows us a faster and more convenient access to the world. The Restaurant automation is a revolutionary concept & is sureto take people by surprise. This system is convenient, effective and easy thereby improving the performance of restaurant’s staff. It will also provide quality of service and customer satisfaction. It will undoubtedly change the way people dine & their dining habits. It would lead to increased revenues; give the customer a better insight into the kind of food they wish to have, give them a g.

V. ACKNOWLEDGEMENT

The authors can acknowledge any person/authorities in this section. This is not mandatory.

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