IoT Based Restaurant Menu system

**DESCRIPTION:**

. Nowadays automation systems are everywhere whether its home, office or any big industry, all are equipped with automation systems. Restaurants/Hotels are also adopting recent automation trends and are installing robots to deliver food and tablets for taking orders. People are looking forward for a system that will satisfy their needs more comprehensibly. Most of the restraunts are looking for any application that enhances the dining experience as well as that increase the profit. To replace the traditional restaurant system in which the customers have to wait for a long time to give their orders to the waiters and there may be mistakes while taking and delivering food items to the customers and there will be a lot of work on the waiters when massive people present in the restaurant at a time especially during this pandemic situation. So, if we provide an automation in the restaurant by IOT we can overcome all these drawbacks. Here in this project, we are building an IoT based restaurant menu ordering system using Arduino. Here a TFT touch display is used to make the order and the HC-05 Bluetooth module is used to send the data to Arduino. Blynk app is used as an IoT platform where all the data is uploaded and can be monitored from anywhere in the world. IoT based food ordering systems are replacing the traditional food ordering system in restaurants. Instead of using paper-based menu cards, Restaurants are now installing touch screen displays. Using this digital menu system, customers can easily select the dishes. This information will be sent to the kitchen of the Restaurant and also displayed on the display

**REQUIREMENTS:**

High level requirements:

**Objective:**

* Here in this project, we are building an IoT based restaurant menu ordering system using Arduino.

**Flexibility:**

It is very simple and easy in installation.

**Life span:**

Indefinite.

**Low level requirements:**

•Arduino UNO R

•2.4” TFT LCD touch screen

•HC-05 Bluetooth module

**SWOT Analysis:**

Strengths:

• Time saving for the customers

• Better service from the restaurant

• Faster service

• Bluetooth provides a simple and easy connectivity

• Also has the potential to attract more customers if implemented effectively.

Weaknesses:

* Internet connectivity should be high