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Intelligent wireless notice board

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ABSTRACT

It is a process of information exchange, it is precisely this aspect of the technology, which plays an important role in all forms of commercial activity, or the organization of the subject. Currently, all companies have to have to have or advertising to promote their products and services to you. Digital advertising is the dire need of the modern business, and, in the digital world. The drop indicator of the non-matrix displays can be used at international airports, markets, subway stations and shopping malls. Bus, drive, and so on. The LED display is the best and most efficient mode, and the display of the data, but the problem is, the message is dynamic, if the user changes the content of the message, in order to meet specific requirements. In the event of a change in the text of the message and connect to the LED display to the computer in such a way that the screen is on, the control board may not be placed anywhere else, due to the complex circuitry. The goal of this project is to develop a wireless, scrolling for your message board, which allows the user to gain access to the content of the message may not have access to the display of the matrix, a computer, or a laptop computer. It is up to the user to update the content of the message, via Bluetooth or Wi-Fi access is available.

Keywords: *Bluetooth, Wi-Fi, Arduino, Iot, Application software.*

1. INTRODUCTION

Notice board is generally utilized in schools, colleges, complexity industries, and other communication displays etc. This is a good and efficient way to get the output and the public will be able to see the information in the display. The notice boards are commonly used thing in the communicating places for viewing the public A great deal of paper is been utilized and which just efficient. Normally the man's power is so hard to get and time waste process for fixing the various notice boards in notices for several times,

In colleges sometimes the attender would be busy when the important times at that time the keeping of notices in the board is very hard, so we want to modify the scrolling led system with the efficient manner to get the message for the purpose. So We Want To Reduce the Hardship of Our Notice Board to Future Extensions and improve our society

2. BASIC PRINCIPLE

Taking into consideration, it tends to be inferred that, there exists a need for an electronic notice board that empowers a proficient direction to the client for showing notice. This venture is a usage of the possibility of remote correspondence among a mobile cell phone and an AVR controller

Bluetooth or Wi-Fi Based Electronic Notice Board

Bluetooth or Wi-Fi innovation is uniquely utilized for SMS applications. Bluetooth is an open remote conference for trading information over quick exact ways from fixed and mobile phones, making Personal Area Networks (PANs). It was start with imagined as a remote option to links. Bluetooth will get the signal sent with the aid of the Android application device (cell telephone), and afterward, impart this signal to the Arduino. So as to execute this venture, we must make an Android application app this is capable of playing out the accompanying functions. It sends the text over through Bluetooth or Wi-Fi

3. MOTIVATION

While many LED screens currently on the market offer wireless connectivity, they do not offer the modularity and input choices proposed for this product. Combining wireless connectivity and modularity into one product will allow the customer to place the display anywhere within the range of the transmitter and near a standard power outlet. Since the wireless connection obviates the need for running communication wires between the board and android application device, the placement and installation of the board will be much easier than that of a wired counterpoint.

4. EXISTING SYSTEM

Notice Board is primary factor in any establishment / organization or utility places like bus stations, railway stations and parks. Projecting varied notices day-after-day may be a troublesome method. A separate person is needed to require care of notices show. This project deals regarding a complicated advanced wireless bulletin board for back-up power supply and tend to don't extend the nodes in collective reach of our network. Thus, we couldn't connect the multiple connections in previous technique.

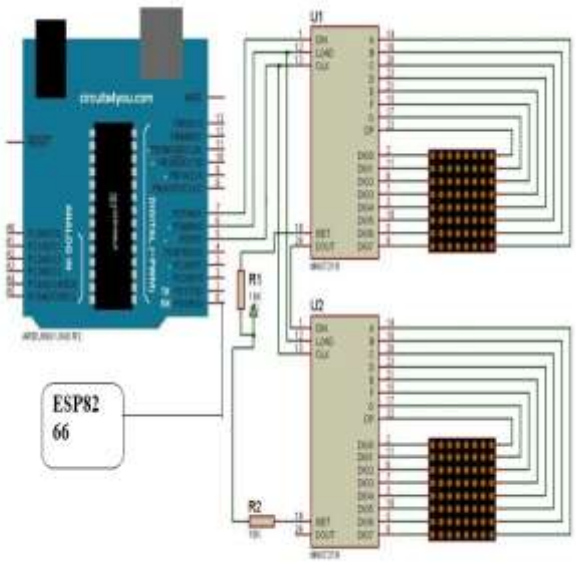
5. PROPOSED SYSTEM

In proposed system we want to use wireless notice board displays messages sent from PC or Mobile and to change or update the message on the screen. There was a backup power source to update automatically at anywhere.This technique allows the range of an individual node to be expanded and multiplied In Emergency Cases the BUZZER Has to Intimate the SMS through the Sound and also the app based system. Also implemented in it. The ultrasonic sensor senses the persons comes near by it and it shows message when the person comes and it off the message when the person goes.

6. WORKING

The system working two principles one is Bluetooth based and the other is Wi-Fi based controlling. The Project is to develop a wireless notice board that displays messages send from the user's mobile or pc. When a user sends a message it will check the message through the app called LEDART and we want to send the message with the help of a phone or pc by using app and it is received by the receiver unit of LED or LCD. The Notice board is an LED or LCD display interfaced to an Arduino, powered by a regulated power supply 230v.

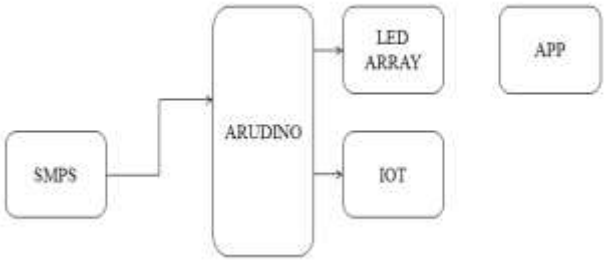
7. CIRCUIT DIAGRAM



8. CIRCUIT PRINCIPLE

When we send the message from the mobile. The connected system observe the message sends from the user then further it display on the LED board with the help of connected Arduino programming. In the above circuit want to display the message by using the app development also. The connections and ports of the terminals are shown the above circuit diagram. For better glowing of LED wants to 2Ma is need.so load current 20mA needed and to turn on the led want to need 2v for better performance. The app based software also implemented in these system for sending the quick message to the Display through the mobile. Hence make use of app development may give accurate and quick results to the public for viewing the display.

9. BLOCK DIAGRAM



As The Block Diagram Says That the switch Mode Power supply is the Open Source and to make the Connection to the Desirable Device Arduino. The LED ARRAY Connected to the Arduino for Viewing the Message .And coming to INTERNET OF THINGS for Communication. The App Based Software Also Develop In It.

Fig.1. Bluetooth message terminal

Fig.1 represents the terminal for Bluetooth interface through which the user will connect itself and give the input message. There are a few steps the user must follow to ensure connection to the Bluetooth terminal is secure, when we first open the terminal dialogue box will appear asking us to turn on the Bluetooth and after the Bluetooth is turn on we will be connected to the device as a slave. Once the connection with the system is established the user can type message, but for the message to be displayed on the screen the message must end in a hash function.

10. RESULT

The notice board is the severe system in the communication purpose, in order to control the noticeboard to the internet of things (IOT) and also app controlled based system has to be implemented

11. CONCLUSION

Thus the system will be an effective Design for us providing a more efficient way of displaying notice across the entire building with a very short span of time saving a lot of time and efforts. The Led module can also be attached to a rechargeable battery the whole process should be monitored which make the system will more secure and also any additional delay and error can be eliminated. The system in future can be connected in a mesh topology which will increase the range of the network which under current circumstances will be around 5meter due to choice of Bluetooth module.

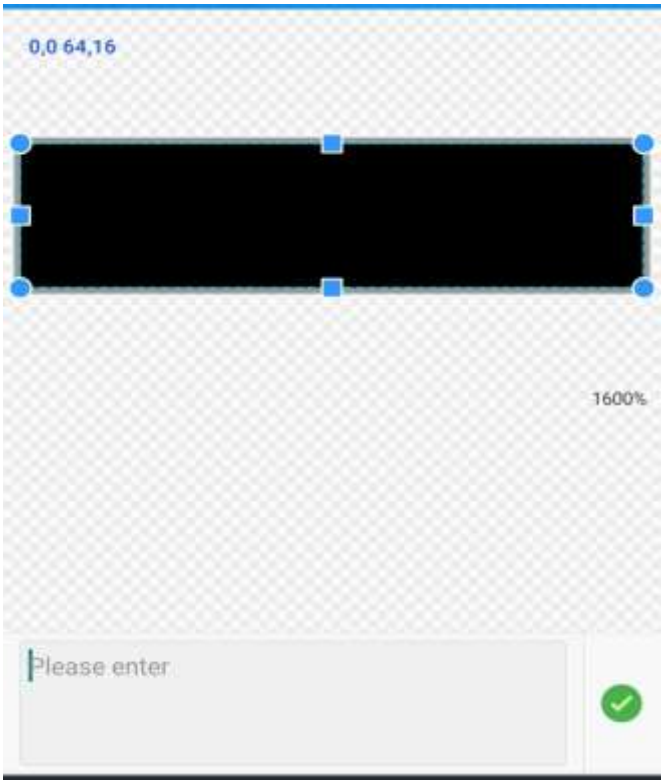


Fig.2 Sample message on terminal by APP

12. AKNOWLEDGEMENT

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14. HARDWARE SETUP

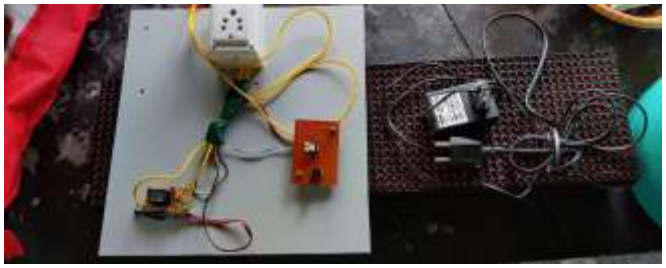

Fig 3. Hardware Setup

15. OUTPUT