IOT Based Digital Notice Board

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*Abstract:*In this proposed system the idea of IOT Based Web Controlled Digital Notice Board Using GSM Technology has been presented. So our main aim is to reduce paper work and time At present, when information has to be updated in a notice board, it has to be done manually. To change message on display, it needs to change microcontroller program code again. By adding web controlled IOT based communication interface to this system, we can make smart notice board to overcome these limitations. So we have interfaced with raspberry pi with WIFI module. Users can access to update notices on notice board by providing them password.

Keywords: — RASPBERRY PI; WIFI; IOT;

I. INTRODUCTION

The Internet Of Things(IOT) refers to the use of Intelligently connected devices and system to leverage data gathered by embedded sensors and actuators in machines and other physical objects. IOT is expected to spread rapidly over the coming years and this convergence will unleash a new dimension services that improve the quality of life of consumers and productivity of enterprises, unlocking an opportunity that the GSMA refers to as the 'Connected Life'.

This system is a Web Controlled notice board with a Raspberry pi with Wifi at the transmitting end. So if the client needs to show any message, he can send the information inserted in a subject box in any gmail account that information will send to respected gmail which is set in respective phython code. And that sent email will displays in respective Raspberry pi display.i.e...LCD display.

II. PREVIOUS STUDY

This Undertaking portrays the framework that message send from approved client to GSM module which is situated on the notice board. So this GSM module gets the message and showed on see load up, at same time this message will be send distinctive portable number store in memory of microcontroller. At the point when new message is landed at see board than the signal will beep.

Max232 move the level of flag which changes over the flag between the microcontroller and GSM module. After the transformation of flag this message will be shown on see board
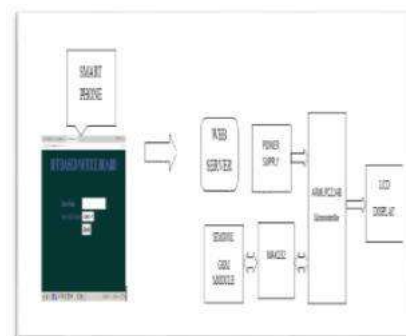
III. PROPOSED SYSTEM

In transmission section the information which we want to display on the LCD (20×4) should be entered in the web form as show in figure. The web form is created by using html and java script script is used to add functionality to the web form.

To display the data that should be entered in enter notice text box and choose field as 1 then click on submit. The data is transferred to the web server

Receiver section contains power supply, Raspberry pi, LCD display and Wifi connecection. Initially the information inserted in a subject box in any gmail account that information will send to respected gmail which is set in respective phython code. That sent email will displays in respective Raspberry pi display .i.e... Lcd display. And it will automatically refresh when another mail is send to respective Raspberry pi id.

It will makes less time to display information any public places.

Fig -1: Block Diagram of Proposed System

3.1 HARDWARE & SOFTWARE MODULES

1. Raspberry pi

2. LCD Display Normal

3. Power Supply

4. USB mouse

5. USB keyboard

6. WIFI connection

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3.2 ALGORITHM:

Step 1: Allocate storage space in Thingspeak.com server

Step 2: Create html page to enter text/message/data to be displayed on the notice board.

Step 3: Connect to the wifi module to set user id and password what we can given in that respected phython code.
Step 4: Send the information or notification to the respected gmail which is set in that code.

Step 5: That sent email will displays in respective Raspberry pi Display. i.e...LCD display

FLOW CHART:
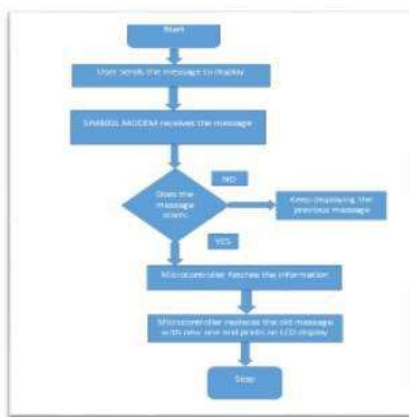
Fig -2.Flow Chart

IV. CONCLUSION

1. IOT notice board can be used in various organisations like hospitals, schools, colleges, Offices etc.

2. It provides faster and dynamic displaying of messages.

3. User can send data anywhere in the world.

4. Data is more secure.

It is Eco Friendly, using IOT notice board we can reduce paper usage

V. REFERENCES

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