Advance voice controlled notice board using IOT

[1]Sonali B. Manker

[1]Research Associate, Department of E&TC Shri Chatrapati Shivaji Maharaj College of Engineering, Nepti, A.Nagar, Maharashtra, India

1. ABSTRACT

The main concept behind Voice operated Electronic notice objective of this work is to develop a smart noticeboard using display is to show messages and to control them by using our own voice. We have a board which works in a well-organized manner with respect to date and time which will help the user to already seen GSM based Electronic however speech controlled Notice board, board has easily kept in track of the notice board every day and each time he uses the system and to convey the additional advantage of ease of use. This system is a simple design, easy to install, user-friendly system, which can receive and display the notice in a particular manner with respect to date and synthesizer.

Keywords: Bluetooth module, LCD display, Arduino Uno, IOT application, PC, Android/Mobile

2.Introduction

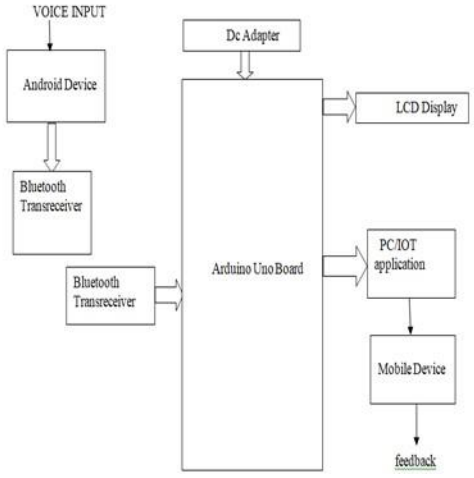
Notice boards play a vital role mostly in educational institutions. The events, occasions or any news, which has to be passed to the students, will be written on the notice boards present on every floor in the colleges or schools. 'The present system is like, a reason will be told the news and he has to update this news on all the notice board t in the college or school. This will be seen mostly during the examination. The time table or the schedule tithe exams have to be given tops. This will be done by writing the details on the notice boards. But this put a lot of time to update the news on all the notice boards and the person responsible may commit some mistakes or him sometimes. So, this may create disturbances and the entire schedule may disturb. To avoid all these problems, the wireless Notice Board have been designed etch. Impolitely eliminates manual work. This project uses a wireless network. Bluetooth is connected to the Arduino. Speech input is given to the wireless Bluetooth module. When command or notice is given via android then a message is displayed on the connected LCD.

3. Literature review

They had proposed a remotely send notice to Digital Monitor from authorized PC on Raspberry pi card. A Wi-Fi is using for Data transmission. At any time we can add or remove or alter the text according to our requirement. A transmitter authorized PC is used for sending a notice. At receiving end Wi-Fi is connected to the raspberry pi. When an authorized user sends a notice from his system, it is received by the

receiver. Wireless is a popular technology that allows an electronic device to exchange data wirelessly over a computer network, including high-speed wireless connections. The data is received from an authenticated user

4. Proposed module



5. Working

In this project, we use Bluetooth module, Arduino, Android device, LCD display, and IOT Application. When Speech input is given to Android device then it converts in proper text form using voice recognition app. Then this message sends over wireless medium through Bluetooth module. Then this message stores in the controller memory. The message is displayed on the LCD simultaneously on the IOT Application also. On the webpage, a message is stored on the cloud and keep records of the notices displayed every day. Also, send the feedback replay to the user on Email that message is displayed. This system is more useful for the college or schools system.

6. ADVANTAGES:

- Helpful for handicapped people.
- Low cost.
- User-friendly & Easy installation.
- Less power consumption.
- It overcomes all the demerits of the previous system such as wastage of paper, time and Labor

7.DISADVANTAGES:

- The range is limited to 10 meters.
- Compare to GSM module max signal rate is low
- i.e. 1Mb/s.

8. APPLICATIONS:

- It can be used in colleges, schools, bus stands, and railway stations.
- Industries where we can control machines by just saying instructions.
- Military applications.
- It can be used in malls & highways for advertisement purpose.
- To display the Room Rents, Available rooms and to AC or NON-AC rooms details in hotels
- It is used for colleges to display the placement news, circulars, daily events, schedules etc…..
- Used in hotels to display the Food items and the menu offers etc…..

• By using railway stations scheduling the time to be displayed and platforms the service offered by the railways

• To display the nursing homes using the staff attendance availability of the doctors, list of the specialized doctors and no of patients etc.

9.FUTURE SCOPE

• A commercial model can be able to display more than one information at a time.

• In our system, we transmit and receive a message via Bluetooth module and displaying on an LCD by utilizing the Bluetooth module. The same principle can be applied to control electrical appliances at a distant location by using the Wi-Fi network.

• Robots can be controlled in a similar fashion by sending commands to the robots. This can be used for spy robots at distant locations, utilized by the military to monitor the movement of enemy troops.

CONCLUSION

We are concluding that by introducing the concept of wireless technology in the field of communication we can make our communication more efficient and faster, with greater efficiency we can display the messages with fewer errors and maintenance. As well as time can be consumed and to paper wastage is reduced. And the information can be updated every second.

REFERENCES

[1] Vinod B. Jadhav, Tejas S. Nagwanshi, Yogesh P. Patil, Deepak R. Patil. "Digital Notice Board Using Raspberry Pi" IJRET, Volume: 03, Issue: 05 | May- 2016.

[2S.Arulmurugan, S.AnithaA. Priyanka, S. Sangeethapriya. "Smart Electronics Notice Board Using Wi-Fi" IJISET, Volume: 03, Issue: 03 | March- 2016.

[3]Jaydeep Raiyani1 Mr. Dharmisht Dalsaniya. "Digital Signage Using Wireless Network" IJSRD, Volume: 03, Issue: 04 | 2014.