A Survey Paper on Android Controlled Notice Board

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Abstract-- The project is an electronic notice board that is controlled by an android device and displays message on it. Traditionally, there were notice boards where any information or notice had to be stick daily. This becomes tedious and requires daily maintenance. The project overcomes this problem by introducing an electronic display notice board interfaced to an android device through internet connectivity. The receiver device receives the message from the android device that is sent to a micro controller. The micro controller displays the message on a LCD screen. This project can be used in colleges, offices, railway stations or airports for displaying any information.

I.   INTRODUCTION

Traditionally, there were notice boards where any information or notice had to be stick daily. This becomes tedious and requires daily maintenance. The objective of this project is to develop a wireless notice board that displays notices when a message is sent from the user's android application device. Android Controlled Notice Board is an electronic based project. This automated system can reduce the manual work. The concept of this project is to design a Internet driven automatic display board. It is proposed to design receiver cum display board which should be programmed from an authorized mobile phone. This electronic system is a combination of software and hardware. In this paper, to design a model messages are sent through an Internet from an authorized transmitter and then message is transmitted to the microcontroller and the message is read and sent to digital display board.

II.   LITERATURE SURVEY

Bluetooth based notice board is an android based application. In this application, user sends the message from the android application device, and then the message is received and retrieved by the Bluetooth device at the display unit. The Bluetooth access password will only be known to the user. It is then sent to the microcontroller that further displays the notice sent from the user on to the electronic notice board which is equipped with a 16X2 LCD display. It uses a microcontroller from 8051 family.

GSM based display toolkit, the wireless communication has announced its arrival on big stage and the world is going mobile. We want to control everything. This remote of appliances is possible through embedded systems. This project designs a SMS driven automatic display toolkit which can replace the currently used programmable electronic display.

III.   COMPARISION STUDY

SR. NO.	PROJECT NAME	WORK DONE	DISADVANTAGE
1	SMS Controlled Smart e-Notice Board	In this, the notices are displayed using GSM technology where the microcontroller used is 8051.	In this, notices can't be updated from any remote place.
2	Yi-Jen Mon Bluetooth based led display	In this, the notices are displayed using Bluetooth technology where the board is made of seven segment display.	Use of seven segment display is a tedious process. The notice can't be updated from any remote place.

IV.   PROPOSED WORK

As people mostly use the manual process to update the notices, they need to update every time manually which is a tedious process.Following are the modules associated with our android application which helps an individual to easily update notice.

A. Login

User needs to get logged in for uploading the notice. By using this module the user can be able to update the notice directly from android phone that will be automatically updated on the digital notice board.

B. Authentication

The purpose of authentication is to see whether the user who logged in is the one who has been given the user oard.id and password by admin. Authentication is used so that only the faculties of the college or an individual who is responsible for updating the notice is able to update the notice on digital notice board.

C. Displaying Notice on Notice Board

To display a notice, first user will have to enter it in an android application which will be displayed directly on a digital notice board. This happens with the combination of software and hardware. The notice is entered in a software device and displayed on a hardware device. The interface between software and hardware will be raspberry-pi. The message to be displayed is sent through a remote place from an authorized transmitter. The microcontroller receives the notice and displays the desired information.

D. Clearing Notice Board

There's an another module called clearing notice board where notice board is being cleared so that another notice can be updated.

E. Logout

When the notice updating work has been completed, users can logout.

CONCLUSION

Thus here by we conclude that the proposed system remove all the drawbacks of existing system and enhanced with the automatic internet and wifi notice board system. The proposed system gives the automation in all the processes like updating notices from any remote places. It provide the detailed solution in existing system problem.

References

[1] Gowtham. R 1, Kavipriya. K "Multiuser Short Message Service Based Wireless Electronic Notice Board", International Journal Of Engineering And Computer Science ISSN:2319-7242 Volume 2 Issue 4 April, 2013 Page No. 1035 -1041.

[2] Pawan Kumar, Vikas Bharadwaj, "GSM based e-Notice Board: Wireless Communication", International Journal of Soft Computing and Engineering (IJSCE) ISSN: 2231-2307, Volume-2, Issue-3, July 2012. N. Jagan Mohan Reddy, "Wireless Electronic Display Board Using GSM Technology", International Journal of Electrical, Electronics and Data Communication, ISSN: 2320-2084 Volume-1, Issue-10, Dec-2013.