An Implementation 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 digital screen. This project can be used in colleges, offices, railway stations or airports for displaying any information.

1. 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.

2. 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.

3. COMPARISON STUDY

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

1. Flowchart

2. Use Case Diagram

3. IMPLEMENTATION

a) Registration

This is the registration module where admin will register into the account. The registration can be done only by the person who has been given the opportunity (e.g., HOD) to upload the notice.

b) Login

The registered user will login into the account. The user who has been login into the account will upload the notice.

c) Menu

It’s the menu section, where admin can edit, view the notice. He/she can also view the information about the app or logout from the account. User can register into the account using this module.

d) Notice Section

In this section, admin can insert a text notice or upload an image. The user who has logged on to the account can upload a text message or he/she can even upload an image.
e) Inserting Text Notice

Here, admin can upload a text message that can be displayed on the notice board. In this there’s a section where admin can upload the common notice for all or separately for all departments.

f) Uploading Image

Here, admin can upload an image that can be displayed on the notice board. In this there’s a section where admin can upload the common notice for all or separately for all departments.

g) View & Delete Notice

Here, we can delete or view the notice. If admin wishes to delete the notice then he/she can delete notice using this module.

h) Notice Display Section

This is the output section where the notice will be seen. The notice will be in loop that is one notice will be displayed for few seconds or minutes and then next notice will appear.

6. ADVANTAGES

➢ It has remote application achieved by any smart phone or tablets.
➢ This project reduces Human work for maintaining the Notice Board.
➢ It also saves the printing as well as paper costs.
➢ Because of Wi-Fi access password will only be known to the user such as Principal, HOD or Head Person, It is Confidential and reliable.
➢ Due to the use of Wi-Fi system which is the fastest usage of internet, it will give high performance and it will be cost effective.

7. DISADVANTAGES

➢ The main disadvantage of this system is that it require power supply which is absent in Traditional Notice board.

8. APPLICATIONS.

➢ It can be used in domestic, industrial, official and colleges.
➢ The big shops and the shopping centers use digital displays now.
➢ Also, in trains and buses the information like platform number, ticket information is displayed in digital boards.

9. 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 provides the detailed solution in existing system problem.

10. REFERENCES


[2]. Pawan Kumar, Vikas Bharadwaj, “GSM based e-Notice