



# Android Controlled Application For Smart Notice Board System

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**ABSTRACT:** The Android Controlled Smart Notice Board System Provide Helps more in less time and minimum cost. Like as video, images, text. The system is ensured with high end security using user name and password feature in the Notice Board. This System Saves the date, time of the sent notice. When the notice is Displayed on the Notice Board the Buzzer will turn on and the notice will be announced. The System can be used by Blend People as well as college, bus stop, Railway Stations etc. This system in reducing the human effort, paper, printer ink and cost for manual changing of the notices.

**KEYWORDS:** Raspberry pi, android app, LCD board.

## I .INTRODUCTION

The Android Controlled Smart Notice Board System by use android device and displays message on it. 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. The main objective of the project is to develop a wireless notice board that displays notices when a message is sent from the user's android application device. Remote operation is achieved by any smart-phone. The smart notice board uses the digital technology and the electronic components/modules. It is implemented to display the notice or message which is more convenient for the administrator in terms of displaying, modifying and viewing of the notices/messages. This message display the any Languages like that (Marathi, Hindi, English). Smart Notice board display the message on LCD monitor this message is maximum 2000 char at a time and set the date and time message in this system. The proposed system will help in reducing the human effort, paper, printer ink and cost for manual changing of the notices. The system is ensured with high end security using user name and password feature in the android app.

## II. RELATED WORK

Currently we rely on putting up notices on the noticeboards using papers. This is time consuming since we need time for preparing notices. Also there is wastage of paper. If we need to renew the notice then we have to take a new hardcopy. A separate person is required to take care of this notices display.

The project is to develop a wireless notice board that displays notices when a message is sent from the user's android application device. It has been observed that by using the proposed design, the display notice length is up to 160 characters with LCD monitor.

Various notices day-to-day is a difficult process. The Notice board is a common display for effective mode of providing information to the people, but this is not easy for updating the messages instantly.

## III. PROPOSED ALGORITHM

### A. Design Considerations:

- Send Message Form the Android Application.
- System Receive.
- System Record Maintain.
- Authorized System (Admin Login).
- Display Notice.



- Buzzer on
- Notice Announced e.g Text.
- Play Video.
- Images Display.

B. *Description of the Proposed Algorithm*

1. The proposed system removes all the drawbacks of existing system and enhanced with the automatic internet and Wi-Fi 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.

- Login module:  
In which module there is need of user name and valid password for login the system.
- Notice Section module :  
In this section, admin can insert a text notice or upload an image, video, audio. The user who has logged onto the account can upload a text message or he/she can even upload an image
- View & Delete Notice module:  
Here,we can delete or view the notice If admin wishes to delete the notice then he/she can delete notice using this module.
- Notice Display Section module:  
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 second or rminutes and then next notice will appear.

2. The implemented system can be used in shopping malls and bus stations for dynamic updating of notices/messages. Also scan copy of notices can be displayed using the proposed system. The voice feature can be added to this design for advertisement/ announcement of notices in public places.

#### IV. PSEUDO CODE

Step 1: Start

Step 2: Send Message Form the Android application (video,Images Text).

Step 3: System Receive.

Step 4: Record Maintain to the Database.

Step 5:Admin Login To The System.

Step 6: Login Condition

- A) if(pass==True) then  
Go to step 7
- B) If(pass==False) then  
Go to step 6

Step 7: Display Notice.

Step 8:Exit.

#### V. SIMULATION RESULTS

The Android Controlled Smart Notice Board System by use android device and displays message on it. This project can be used in colleges, offices, railway stations or airports for displaying any information. The main objective of the project is to develop the Microsoft visual studio,SQLserver2008. Html,Python.MariaDB database. The proposed system will help in reducing the human effort, paper, printer ink and cost for manual changing of the notices. The system is ensured with high end security using user name and password feature in the android app.



Fig.1. Home page

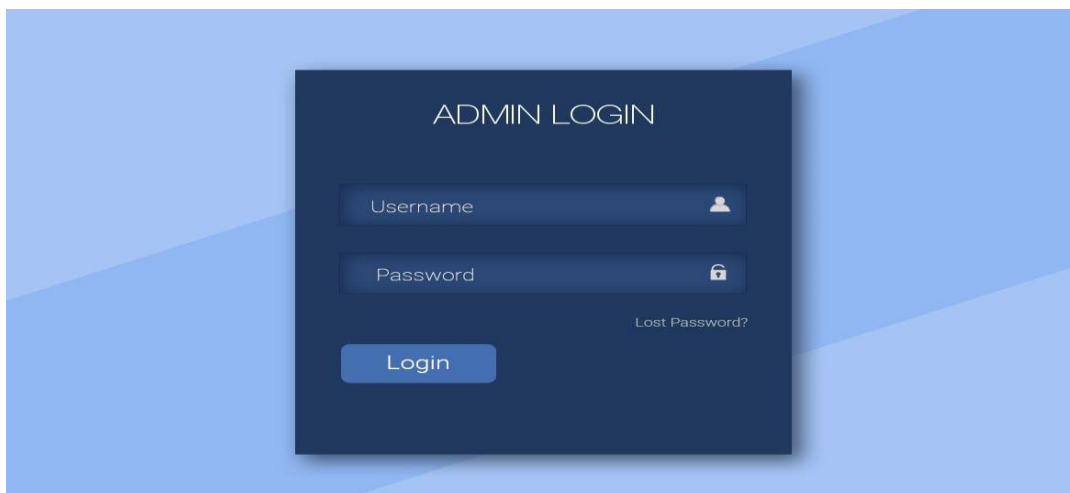


Fig.2. Login page

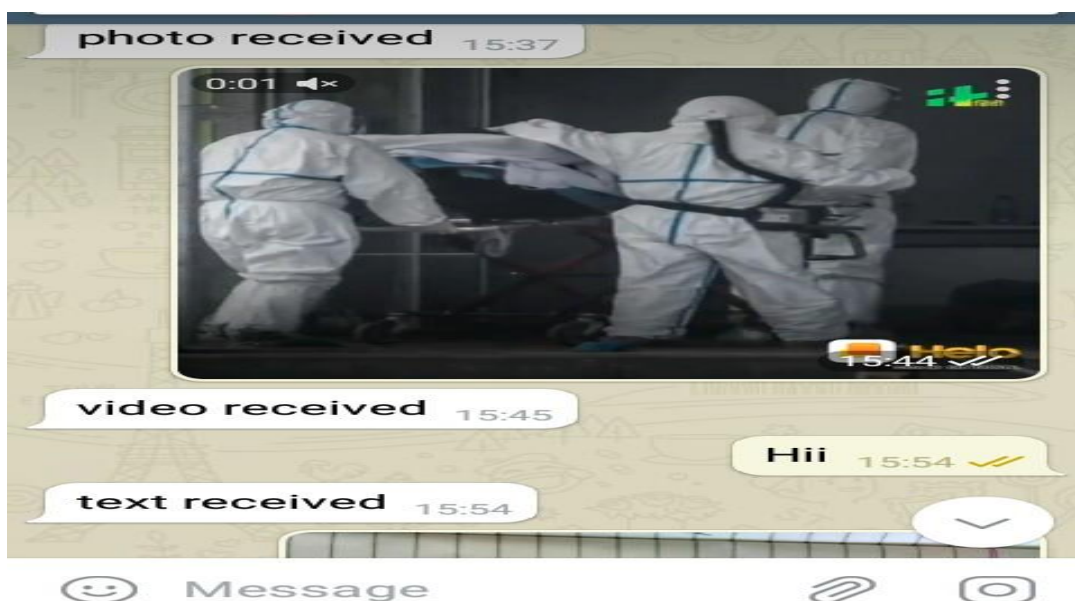


Fig.3. Android application page

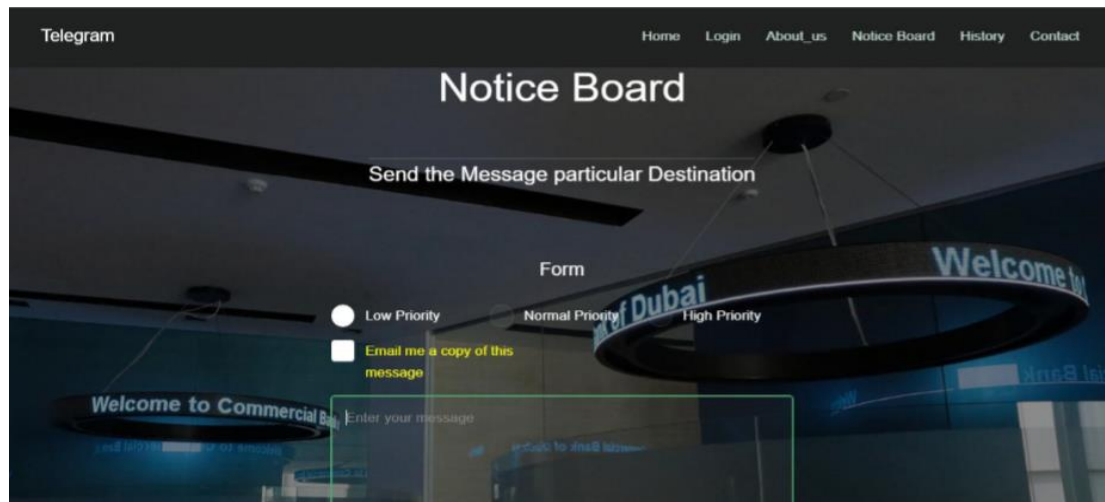


Fig.4.Notice Board

## VI. CONCLUSION AND FUTURE WORK

Using the IoT technology of Raspberry Pi and Android, an authenticated user can send and control the messages/notices from anywhere which will be displayed on LCD display notice board at the home location. With the proposed system, the resources like time and manpower are reduced sufficiently. Thus here by we conclude that the proposed system remove all the drawbacks of existing system and enhanced with the automatic internet and Wi-Fi 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.

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