

# Voice Based Notice Board Using Android Application

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**Abstract** - The era of mobile technology opens the windows to the android app. The websites are disappearing and the mobile phones are prominent. It's the time to change from conventional websites and other things to apps, which has become the part of our daily routine. we are introducing "VoiceTotext.apk" the android application software which would convert the voice to text. It works on all android platforms, but also it can work with a working internet. Our multipurpose program is considering the user as an Albertan or non-Albertan, student or parent, faculties or office staffs individually. Project gives a total solution to everyone. It gives us more comfort and a better user interface later on Students can interact with Google directly. Latest news and updates is got through the application.

**Key Words** : Notice board, android-application information, messages, smart -phones, Arduino.

## 1.INTRODUCTION

We come across situations where we need to urgently need to display notices on a screen. For areas like railway stations and other such busy facilities the station master/announcer need not have to type in every announcement message manually on the screen. So here we offer an innovative Android based notice display system which allows the user to display the notice without typing manually.

Here the announcer/administrator may speak out the message through his/her android phone, the message is then transferred wirelessly and displayed on the screen. To demonstrate this concept we here use an LCD screen to display messages. The LCD is interfaced with an 8051 family microcontroller. We use a Bluetooth receiver to receive Android-transmitted messages, send them to the microcontroller for decode and further into the process. The microcontroller then displays the message on the LCD screen. Use of this notice board system can be used in various places including railway stations, schools, colleges, offices to display emergency announcements on screen instantly, instead of typing the message at all times.

So that voice based notice board project is very useful in different organizations.

## 2. Literature Survey

**2.1** R. G. Gupta et al. in his paper basically focused on designing an electronic notice board for different sectors like schools [1]. The notice can be send wirelessly within a second. This creative technique can be used to display latest information. The contents of notice can be changed anytime. This concept is designed to design an SMS based automated display board that can replace the current usable programmable electronic display.

**2.2** Abhishek Gupta et al. the main objective of this paper is to develop a wireless notice board that displays message sent from the user and to design a simple, easy to install, User friendly systems, which can display notice about information and time in a particular way, so that the user can help keep track of the information board easily every day and every time he uses the system.

**2.3** Ramchandra K. Gurav et al. in this paper it is focused on GSM (Global System for Mobile) technology to design a digital notice board, "Wireless Notice Board using GSM System" is wireless module which send message wirelessly with the help of GSM module [3]. This means that users or registered persons may be able to send messages from anywhere and this message is displayed on the LCD display.

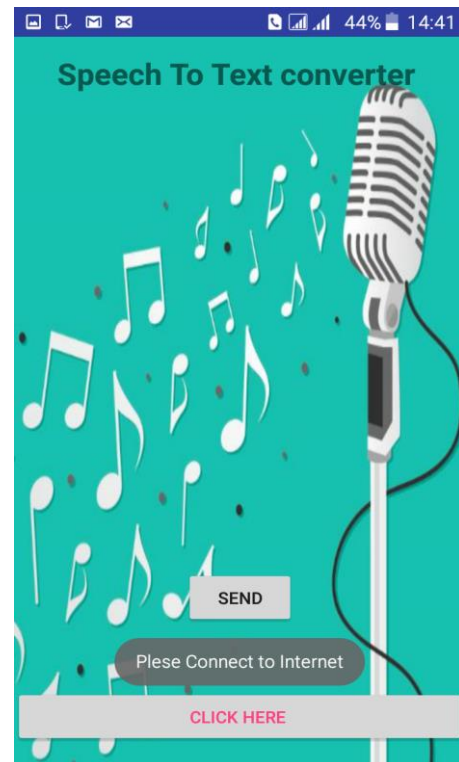
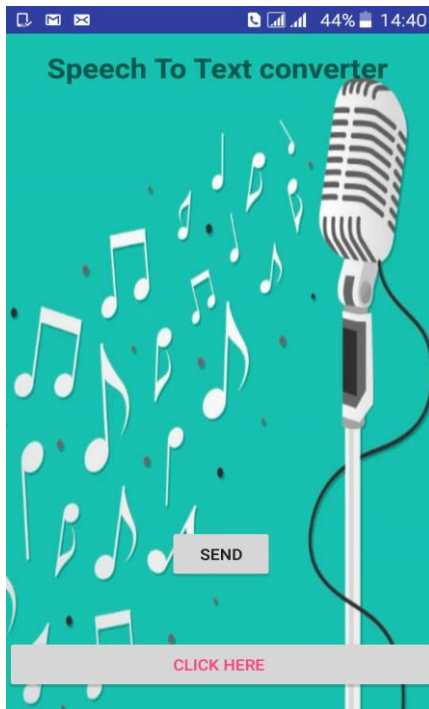
## 3.METHODOLOGY

In this we have made this using Java framework Technology used

**3.1 JAVA:** Java is a general-purpose computer programming language that is concurrent, class-based, object-oriented and specifically designed to have as few implementation dependencies as possible. It allow the application developers to "write once, run anywhere".

**3.2 ANDROID:** Android is a mobile operating system developed by Google. It is used by several smartphones and tablets. Android phones typically come with several built-in applications and also support third-party programs. Developers can create programs for Android mobile phones using

2. Now click on the “send button” and if net is not connected.



Android studio and other software’s. Android programs are written in Java and run through a Java virtual machine JVM that is optimized for mobile devices.

3. If internet is connected it will show the “speak now” box.

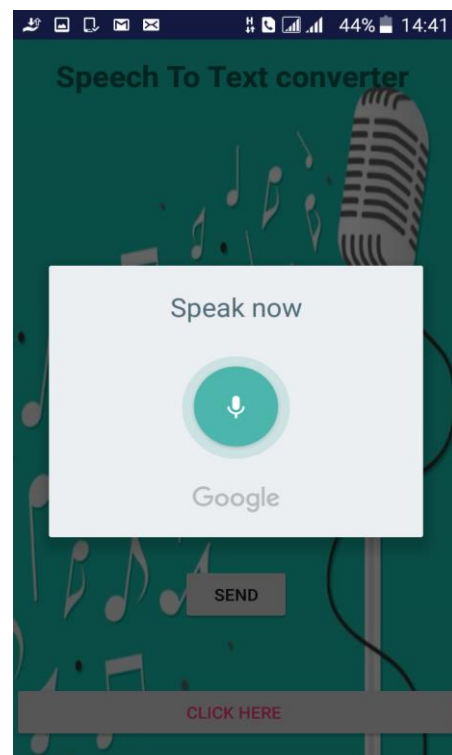
#### 4. Software Used

**4.1 Android Studio:** It is an integrated development environment (IDE) Developed by Google that provides developers tools needed to build applications for the Android OS platform.

**4.2 Arduino:** Arduino is an open-source electronics platform and a software used for programming of Arduino system. Arduino is designed to make electronics more accessible to artists, designers, hobbyists and anyone interested in creating interactive objects or environments.

#### 5. Working

1. Open the application and click on the “CLICK HERE” button.



## 6. Advantages

- It is easy to use and easy to install.
- Speech controlled rolling display is really helpful for disabled people or handicapped people.
- It is a part of iot.

## 7. CONCLUSIONS

By introducing the concept of this technology in the field of the communication we can make our communication more efficient and faster, with greater efficiency. We can display the messages with less errors and maintenance. This system can be used in college, school, offices, railway station and commercial as well as personal used. The above technical paper explains how we can develop as well as modify voice control Android based wireless notice board.

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