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## AND ENGINEERING TRENDS

# **Smart Voice Based Notice Board for College**

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ABSTRACT: The advancement of straightforward and ease Android based remote notice board is introduced. The proposed framework utilizes either Bluetooth or Wi-Fi based remote serial information correspondence. For this reason Android based application programs for Bluetooth and Wi-Fi correspondence between Android based individual computerized right hand gadgets and remote show board are utilized. At beneficiary end, a minimal effort wireless notice board is modified to get what's more, show messages in any of the above correspondence mode. Utilizing the created framework, two distinct applications for showing messages on a remote advanced notice board and remote individual calling has been actualized. The created framework will accordingly points in remotely imparting the data to expected clients and furthermore helps in sparing the time and the cost for paper and printing equipment.

**KEYWORDS**: Android, Bluetooth, Wi-Fi, Wireless notice board

#### **I INTRODUCTION**

In this paper Using the Bluetooth interface a Personal Area Networks (PANs) has been created in the range between 10-15 meters. Bluetooth uses the 2.45 GHz frequency band for connection. A HC-05 Bluetooth module. The module's Media Access Control address is used by Android application program (Bluetooth Terminal) which allows only this device to communicate with the smart phone for controlling the external devices. The interconnection of Android PDA with the external Bluetooth devices like HC-05 Bluetooth module, using Bluetooth terminal for transmitting or receiving the data in form of hex or string. Using the android based wireless notice board in Bluetooth communication mode the user can send the alphanumeric text message instantly once the connection is established between Android based PDA and Bluetooth device (HC-05). The notice on the LCD display can be changed at any time by resending the new message from PDA using android application program that is Bluetooth technology. The new message will overwrite the previous message making the system very simple and easy to use. The implementation of Android based wireless notice board.

#### II RELATED WORK

This paper carries out a detailed review of the various techniques employed in the recent years in GSM technology. It discusses the current innovations in technology, and within

this context, the operation of wireless electronic display boards using GSM technology has been reviewed. The important techniques used in past are also tabulated. Various technical papers and articles on wireless technology have been analyzed. The paper takes an inquisitive approach to the proposals and prototypes of an electronic display board obtained using GSM, which can be used in public areas for information dissemination. Although this review paper cannot be all-inclusive, it may serve as a reference for further analysis in the domain of GSM and its application in wireless notice boards.[1] The paper describes the design and development of an alarm device that can disseminate disaster early warnings to threatened communities over the GSM network. The device is capable of generating audible, high-volume alarms, flashlights and turning on an in-built radio in response to a warning message from an authorized entity via GSM s short message service (SMS) or cell broadcast (CB) [2]. The limitations of each security technology combined with the growth of cyber attacks impact the efficiency of information security management and increase the activities to be performed by network administrators and security staff. Therefore, there is a need for the increase of automated auditing and intelligent reporting mechanisms for the cyber trust. Intelligent systems are emerging computing systems based on intelligent techniques that support continuous monitoring and controlling plant activities. Intelligence improves an individual's ability to make better decisions. This paper presents a proposed architecture of an Intelligent System for Information Security Management (ISISM)[3]. This paper introduces a kind of intelligent communications dispatch terminal equipment. The equipment is applied to taxi. Its core technology is GSM short message module. The paper describes the overall design of this application in detail. And it studies the power system in terminal blocks, the overall circuit design, short message sending and receiving control. The module of taxi communications scheduling provides an economical and practical technical project for vehicles tracking, call and management[4]. This dissertation reports on the opportunities for GSM-based positioning techniques anno 2008. Practically, this means that both the typical structure of dense (sub)urban networks and the possibilities of modern handsets are taken into account. The potential of the techniques under study is every time evaluated for the stringent demands of the upcoming generation of location-based services (LBS). Though privacy issues are not



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explicitly dealt with, it is noteworthy that all developed techniques focus on a terminal-based implementation. This means that a user keeps full control over his position information. This work shows that GSM-based positioning techniques – especially in a terminal-based implementation – have their use within a context of location-based services[5]. Notice board is primary thing in any institution or organization or public utility places like bus stops, railway stations or parks. But sending various notices day to day is a tedious process. This paper deals with advanced notice board. It presents an SMS based notice board incorporating the widely used GSM to facilitate the communication of displaying message on notice board via user's mobile phone. Its operation is based on microcontroller ATMEGA32 programmed in assembly language[6].

#### III SYSTEM ARCHITECTURE

The proposed system uses either Bluetooth or Wi-Fi based wireless serial data communication in displaying messages on a remote digital notice board. Android based Application programs available for Bluetooth and Wi-Fi communication for personal digital assistant (PDA) devices are used for transmitting the alpha-numeric text messages. Using the Bluetooth or Wi-Fi based serial data communication technique, the corresponding transceiver module has been interfaced with Wireless notice board at the receiver end. For this purpose, a low cost wireless notice board is programmed to receive alphanumeric text messages in any of the above selected communication modes. The proposed system will help in reducing the human effort.

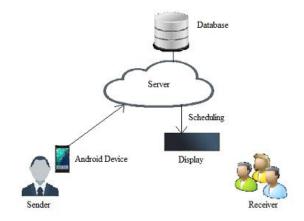


Figure 1. System Architecture
IV METHODOLOGY

#### 1. Speech to text conversion:

In this module android device captures users voice, and converts it into text or hex format. Then converted message will be sent to connected Bluetooth or wifi transceiver. The display device receive the notification stored it and display. The message from remote user either in Bluetooth and Wi-Fi based wireless communication technology.

#### 2. Display Monitor:

In this module We used scheduling algorithm. The scheduler is an operating system module that selects the next jobs to be admitted into the system and the next process to run. Scheduling method by which work specified by some means is assigned to resources that complete the work. The work may be virtual computation elements such as threads, processes or data flows, which are in turn scheduled onto hardware resources such as processors, network links or expansion cards.

## Speech-Reorganization System

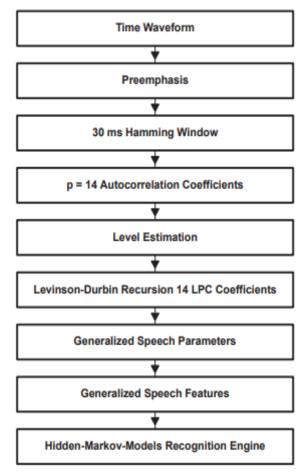


Figure 2. Block diag. Of the Speech-Reorganization System

# V MATHEMATICAL MODEL

Let S be the whole system

 $S = \{I, P, O\}$ 

I-input, P-procedure, O- Output

 $I = \{I_0\}$ 

I<sub>0</sub>=Speech

 $P = \{P_0, P_1, P_2\}$ 

P<sub>0</sub>=Check Speech

P<sub>1</sub>=Speech to text convert

P<sub>2</sub>=Send display

 $O = \{O_1\}$ 

O<sub>1</sub>=Display Text



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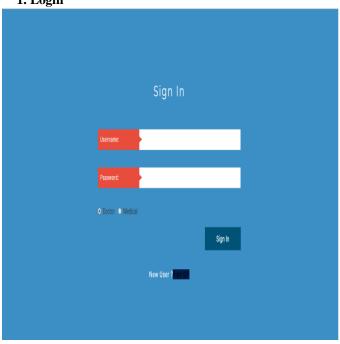
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#### VI APPLICATIONS

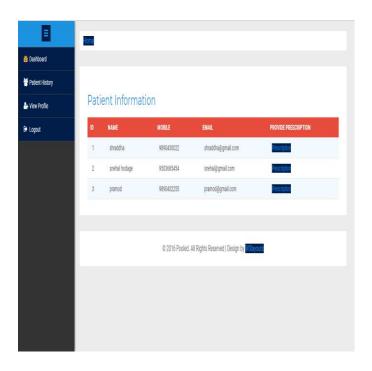
- Using android mobile we can send message to any distinct locations, from any part of the world.
- Multiple users are authorized to update notices on the notice board.
- No printing and photocopying costs. Thus saves time, Energy and finally environment.
- Problem related to direct manual update of notice board is removed. Just an SMS is enough. • Notification can be delivered within seconds.

# VII RESULT

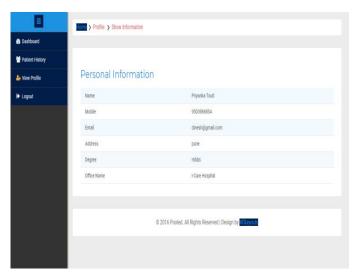
# 1. Login



#### 2. Patient Information



#### 3. Personal Information



#### VIII OUTCOME

- Reduce paper work.
- Scheduling of notices.
- Reduce manual work

## IX CONCLUSION AND FUTURE WORK

In this system the mechanical progression of the notice load up is suggested that will help in sparing time and assets furthermore, making the data accessible in a flash to the expected individual. The framework is basic, minimal effort and simple to utilize that associates with the expected clients in a flash.

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