

# Digital - Notice Board

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**Abstract**— Notice board is the one of the best medium to communicate with the mass media. Notice boards are commonly used at the public utility places. The project, GSM Supported e-Notice Board is an SMS-based and Android-driven Digital display board system, designed to improve the noticing processes by using GSM. The proposed system will help user to display notices from anywhere with the help of user's Android mobile phone, wirelessly. Android application provides security to the system. User sends the notices by SMS, which is received at GSM modem and display on LCD notice board. This project is our experiment on real time noticing.

**Index Terms**— GSM (Global System for mobile), Android , SMS(Short Messaging Service),LCD (Liquid Crystal Display).

## INTRODUCTION

In this GSM supported e-notice board, the module comprises of two major units. The first unit is a simple user's mobile handset. The second unit is the control unit. For instance, this system can be achieved with the help of Android application, GSM modem and LCD display. The control unit comprises of a display, the Arduino board and the GSM module. The control unit will be placed in remote places. Whenever any information or message have to be displayed the user can send the message via user's android mobile phone to the control unit. This smart notice board can be used in many applications including educational institutions, banks, public places like bus and railway stations.

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## LITERATURE SURVEY

### 1) GSM Wireless Communication System [2010] :

[1] This paper is mainly show the character of GSM (Global System for Mobile communications) network. GSM system is today a worldwide standard for second generation mobile telephony.GSM system is very popular and important in whole world. It is have a lot of advantage and conveniences.

### 2) Display Message on Notice Board using GSM [2013]:

[2] This paper proposed the notice board system which saves time, energy and hence environment. Cost of printing and photocopying is also reduced as information can be given to a large number of people from our fingertips. Thus we can conclude that this paper gives an idea to make use of GSM in communications to a next level.

### 3) Wireless Electronics Display Board Using GSM Technology [2013]:

[3] This paper develops a photo type laboratory model wireless notice board system with GSM modem connected to it, which displays the desired message of the user through an SMS in a most populated or crowded places. Notice boards are one of the widely used ones ranging from primary schools to major organizations to convey messages at large.

### 4) SMART NOTICE BOARD [2013] :

[4]This technical paper provides a discussion on present trends in technology and how exactly, simple carry-to-use devices play a vital role in day-to-day life. Using the present technological devices, how an efficient and smart notice board can be made is explained in this paper.

### 5) A Protocol for End-to-End Secure Transmission of SMS [2014] :

[5] explain the EasySMS protocol is successfully designed in order to provide end-to-end secure communication through SMS between mobile users. The analysis of the proposed protocol shows that the protocol is able to prevent various attacks. The

transmission of symmetric key to the mobile users is efficiently managed by the protocol. This protocol produces lesser communication and computation overheads, utilizes bandwidth efficiently.

**6) Transmission Policies for Multi-Segment Short Messages [2015]:**

[6] This paper proposed analytic models to investigate two multi-segment short message transmission policies. The analytic models were validated against by more than 100 millions measured data obtained from a 6-month commercial SMS operation. This analytic model can effectively speed up network planning for commercial SMS operation.

**SURVEY TABLE**

<b>Project name</b>	<b>Year</b>	<b>Author</b>	<b>Advantages</b>	<b>Limitation</b>	<b>Application</b>
GSM Wireless Communication System	2010	Guifen Gu and Guili Peng	1. Knowledge about GSM Services. 2. we can connect without internet	Communication consumes cost. Its not free service.	Cellular Communication System.
Display Message on Notice Board using GSM	2013	Foram Kamdar, Anubhav Malhotra and Pritish Mahadik	1. we can use in advertisement world. 2. we can use in public utility areas	There is limitation of number of characters used in SMS.	LCD Display's used to Notify Notices.
Wireless Electronics Display Board Using GSM Technology	2013	N. Jagan Mohan Reddy and G.Venkeshwaralu	1. Effective use of LCD display. 2. Effective use of electronic boards.	Network problem could happens at some places.	Remote Notice Board by using GSM device.
SMART NOTICE BOARD	2013	Shruthi K., Harsha Chawla, Abhishek Bhaduri	1. Quick communication with digital system. 2. Effective use of LCD Notice board.	Only one notice shows at a time.	Notice board with many features.
A Protocol for End-to-End Secure Transmission of SMS	2014	Neetesh Saxena and Narendra S. Chaudhari	1. Define working of Transmission Protocols.	Speed of transmission of notices depends on network.	Transmission protocol for SMS service.
Transmission Policies for Multi-Segment Short Messages	2015	Yi-Bing Lin, Sok-Ian Sou	1. Define process of communication.  2. Shows working of SMS (Short message services).	Limited Characters should be accepted while Transmitting SMS.	Transmission policies for SMS service.

## CONCLUSION

As the technology is advancing every day the display board systems are moving from Normal hand writing display to digital display. Further to Wireless display units. This paper develops a photo type laboratory model wireless notice board system with GSM modem connected to it, which displays the desired message of the user through an SMS in a most populated or crowded places. By developing Android application in this proposed methodology we can enhance the security system and also make awareness of the emergency situations and avoid many dangers.

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