Abstract

A wireless notice board is a device that allows users to display information wirelessly on a screen or display board. It is typically used in public places, such as school, hospitals, airports, and train stations, to provide real-time information to the public. The wireless notice board system consists of a transmitter and a receiver. The transmitter is a computer or mobile device that send the information to the receiver wirelessly. The receiver is connected to a display screen or board, which displays the information sent by the transmitter.

The information displayed on the wireless notice board can be in various forms, such as text, images, and videos. The system also allows for real-time update, so the information displayed on the board can be changed or updated quickly and easily. Wireless notice boards have several advantages over traditional notice boards. They are more convenient to use, as they do not require physical updating, and they can display a variety of multimedia content. They are also more attention from the public.

Overall, a wireless notice board is a useful tool for business, organizations, and institutions that need to communicate important information to the public quickly and efficiently.

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Chapter 1

Introduction

In this world Mobile Phones and the related technologies are becoming more and more prevalent. Various technical arenas in the field of Telecommunication and Embedded Systems are becoming omnipresent in the people. The use of cell phones has rapidly increased over the last decade and a half Upgradation in networking technologies has encouraged the development and growth of very dense networks. Notice boards are one of the widely used ones ranging from primary schools to major organizations to convey messages at large. A lot of paper is been used and which is later wasted by the organizations. This in turn leads to a lot of deforestation thus leading to global warming. Small innovative steps in making use of technology for regular purposes would have an adverse effect on the environment issues which we are presently concerned about. The whole process can be described from the transmitter and receiver section. The Bluetooth module receives a message from the authorized mobile phone and the message is extracted by the microcontroller from the Bluetooth module and is displayed on the matrix display board. Serial to parallel communication is used for the entire process from Bluetooth module to Microcontroller and from microcontroller to the matrix display. And for the acknowledgement LCD display is used. The proposed system "Bluetooth based Wireless Notice Board using Arduino" is cheap, quick reliable and secured for any organization that requires to circulate notice regularly and reduce physical efforts. We are using Bluetooth technology. We can send notice from any location. This proposed system in this project has many upcoming applications in educational institutions and organizations, crime prevention, traffic management, railways, advertisements etc. Been user friendly, long range and faster means of conveying information are major bolsters for this application. By using this proposed methodology, we can enhance the security system and also make awareness of the emergency situations and avoid many dangers.

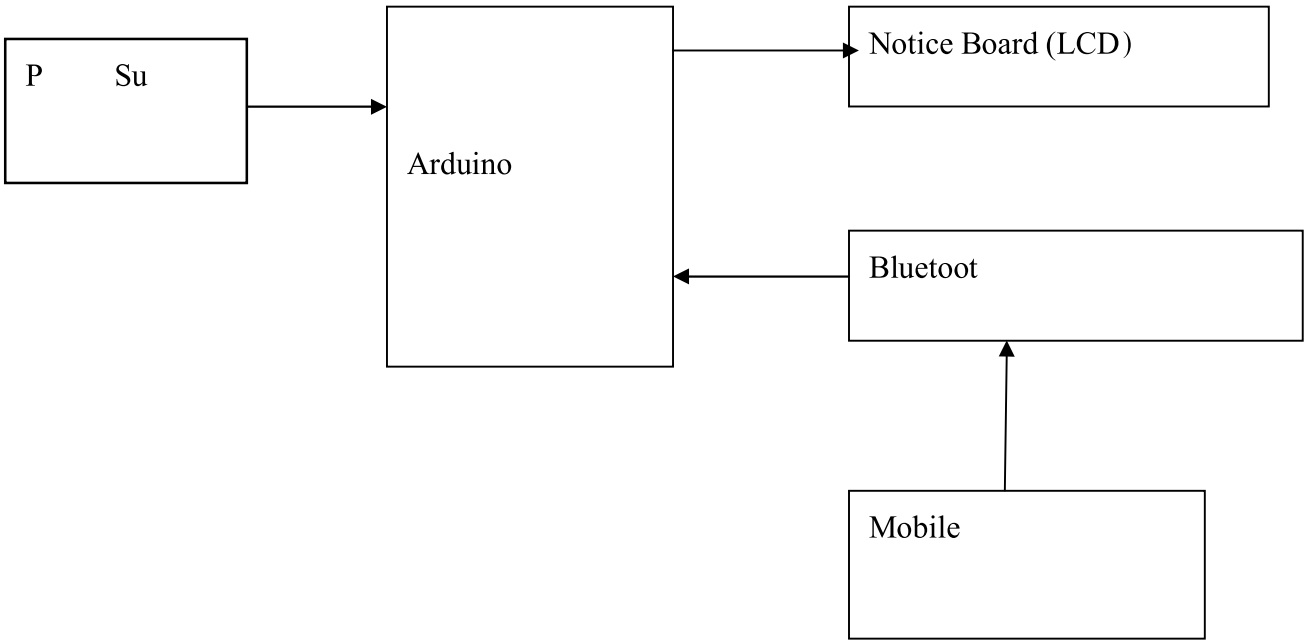
Chapter 2

Literature Survey

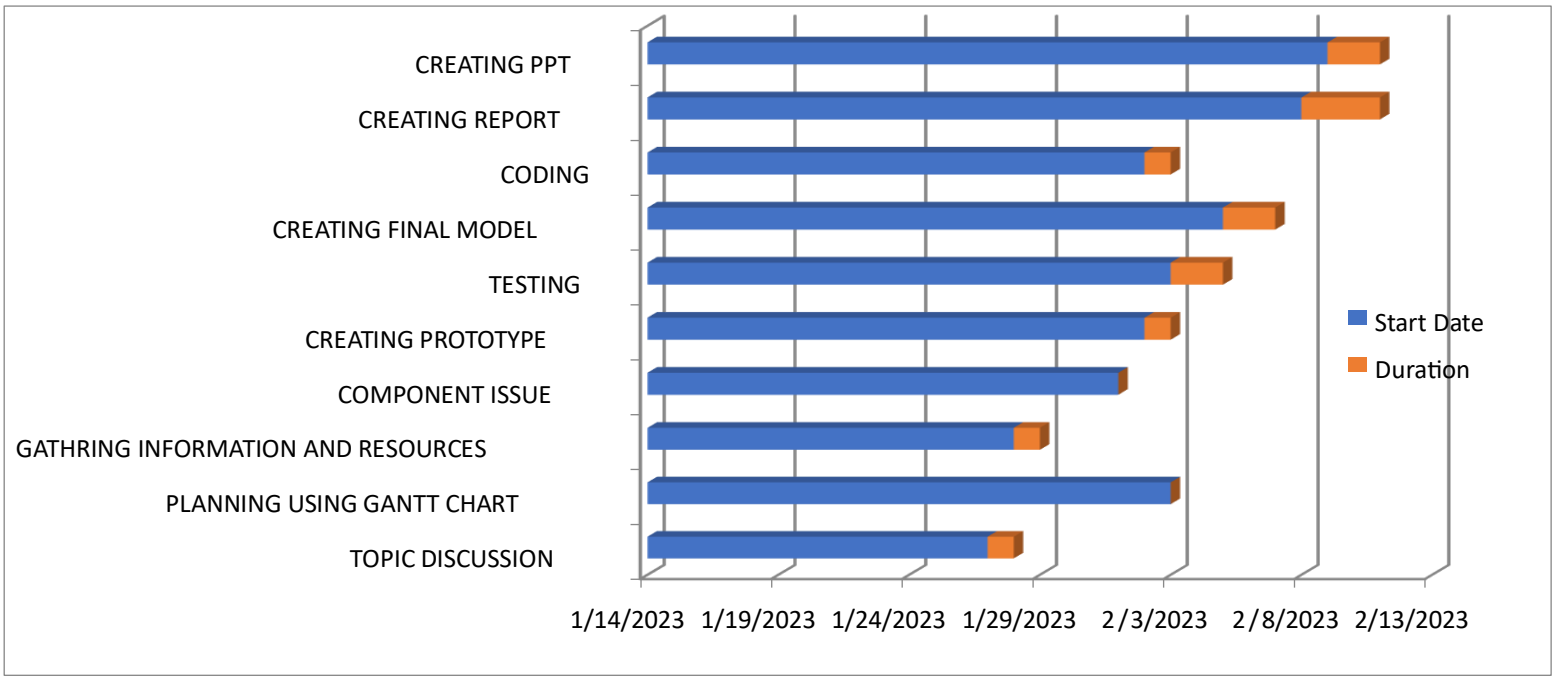
"Wireless Enotice board using Bluetooth technology" This paper explains E-notice board with the help of Bluetooth technology. This document deals with an innovative rather an interesting manner of intimating the message to the people using a wireless electronic display board which is synchronized using the Bluetooth technology. This will help us in passing any message almost immediately without any delay just by sending a SMS which is better and more reliable than the old traditional way of passing the message on notice board. This proposed technology can be used in IJIRT 151997 INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN TECHNOLOGY 175 colleges many public places, malls or big buildings to enhance the security system and also make awareness of the emergency situations and avoid many dangers. "Small and medium range wireless electronic noticeboard using Bluetooth and ZigBee" this paper introduces Notice Board using Bluetooth and ZigBee technology. When information exchange occurs between people via a network, then authentication and security of data have more priority. This paper introduces a low cost, handheld, wireless electronic notice board by using Atmel's ATmega32 microcontroller and different wireless technologies (Bluetooth and ZigBee) and their performance analysis based on the parameter such as range, BER (bit error rate), RSSI (Received signal strength indicator), signal attenuation and power consumption. The notice board receives serial data from wireless module receiver and displays it on the graphical liquid crystal display. We have realized a common communication receiver hardware for notice board having compatibility with both wireless modules i.e., Bluetooth and ZigBee. We used KS0108 based 128x64 graphical LCD as display element. "GSM based wireless noticeboard using Arduino" In this paper built a Noticeboard using GSM technology. The GSM based notice board is aimed at the colleges and universities for displaying day-to-day information continuously or at regular intervals during the working hours. Being GSM-based system, it offers flexibility to display flash news or announcements faster than the programmable system. • To develop a GSM based notice board whose contents can be updated through an SMS which realized through an embedded system with microcontroller. • To design a project simple, easy to install, user friendly system, which may receive and display notice in a very specific manner. • SMS based notice board incorporating the widely used GSM to facilitate the communication of displaying message on notice board via user's mobile phone. • SIM 800 GSM modem with a SIM card is interfaced to the ports of the Arduino with the help of AT commands. "Cost effective Android based wireless notice board" IJETER International Journal of Emerging Technologies in Engineering Research. In the day-to-day life, smart phone is gaining a wide range of importance in its usage and is portable. Thus, an android smart phone can be for the purpose. An android application is installed in the user's smart phone which permits the transmission. At receiver end, a low-cost microcontroller board (Arduino Uno) is programmed to receive and display messages in any of the above communication mode. Using the developed system, two different applications for displaying messages on a remote digital notice board and wireless person calling has been implemented. The developed system will therefore aim in wirelessly sharing the information with intended users and also helps in saving the time and the cost for paper and printing hardware.

Chapter 3

Block Diagram



GANTT CHART



Task	Start Date	End Date	Duration
TOPIC DISCUSSION	27-01-2023	28-01-2023	1
PLANNING USING GANTT CHART	03-02-2023	03-02-2023	0
GATHRING INFORMATION AND RESOURCES	28-01-2023	29-01-2023	1
COMPONENT ISSUE	01-02-2023	01-02-2023	0
CREATING PROTOTYPE	02-02-2023	03-02-2023	1
TESTING	03-02-2023	05-02-2023	2
CREATING FINAL MODEL	05-02-2023	07-02-2023	2
CODING	02-02-2023	03-02-2023	1
CREATING REPORT	08-02-2023	11-02-2023	3
CREATING PPT	09-02-2023	11-02-2023	2

Pugh Chart

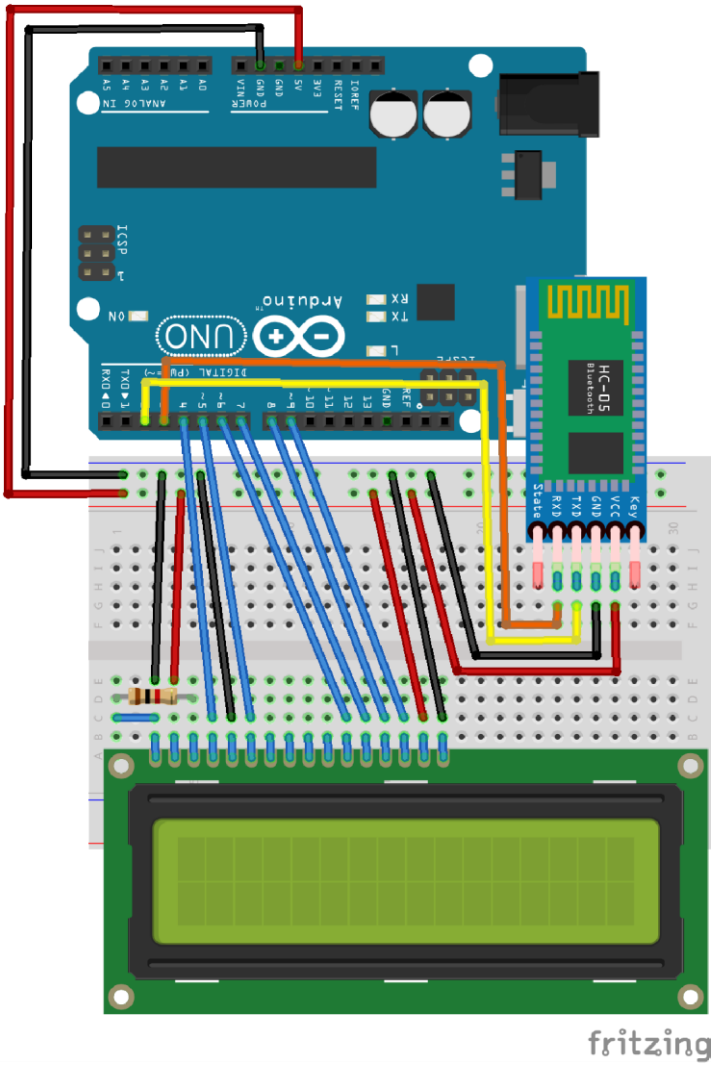
Design criteria	Weightage	HC05	HM10	AT01
Easy to use	**4**	++	+	**D**
Function	**3**	**-**	**--**	**A**
Easy Connection	**6**	+	+	**T**
Cost	**2**	+++	**--**	**U**
Maintenance	**3**	**--**	+	**M**
Durable	**2**	+	**0**	
	+	**22**	**13**	
	0	**0**	**1**	
	-	**9**	**10**	
	TOTAL	**13**	**3**	

Pairwise Comparison Chart

	Durability	Cost efficiency	Low Maintainence	Ease of Use	Automatic	TOTAL
Durability	**-**	**0**	**0**	**0**	**0**	**0**
Cost efficiency	**1**	**-**	**0**	**0**	**0**	**1**
Low Maintainence	**1**	**1**	**-**	**0**	**1**	**3**
Ease of Use	**1**	**1**	**1**	**-**	**1**	**4**
Automatic	**1**	**1**	**0**	**0**	**-**	**3**

Chapter 4

System Design



Chapter 5

Applications

- In school and college to display students result,events and important notice
- In hotels to display welcome notes and costs of items
- In banks to display special offers and new plans
- In airports to display arrival and departure timings of planes and special attention message
- In railway station to display platform and arrival and departure timings of trains and special attention message

Chapter 6

Conclusion and Future Scope

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 WIFI MODULE and BLUETOOTH connected to it, which displays the desired message of the user through an SMS in a most populated or crowded places. This proposed system has many upcoming applications in educational institutions and organizations, crime prevention, traffic management, railways, advertisements etc. Been user friendly, long range and faster means of conveying information are major bolsters for this application. By using this proposed methodology we can enhance the security system and also make awareness of the emergency situations and avoid many danger.

Future Scope:

1.This proposed system has many upcoming applications in educational institutions and organizations, crime prevention, traffic management, railways, advertisements etc.

2. By Using this proposed methodology, we can enhance the security system and also make awareness of the emergency situations and avoid. Latency involved in using of papers in displaying of notices is avoided and the information can be updated by the authorized persons.

References

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