

Digital Notice Board

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ABSTRACT: In any organization or institution, a Notice Board is a very important component as it is one of the best mediums to communicate with the individuals of that organization or institution. The system allows the user to display the message from anywhere just by sending the text via Email with an associated password. This paper is introducing a new notice system which does not require reaching to the display or any pinning or pasting of papers anywhere. The system is consisting of the voice alert notice the new system is consist of a text to voice feature, also the message will can be remotely send through email.

Keywords:E-mail (Electronic Mail), SMS (Short Messaging Service), LCD (Liquid Crystal Display).

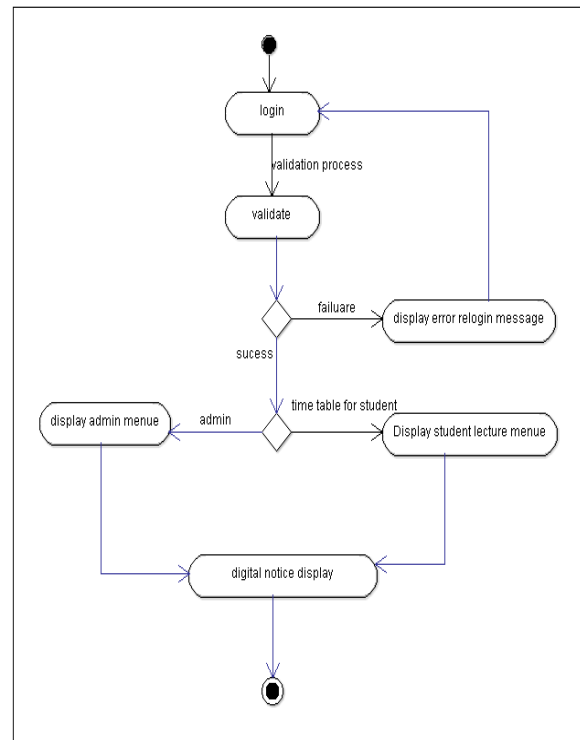
I. INTRODUCTION

Notice board is an essential information gathering system in our life. In our day-to-day life we can see notice boards in various places like, educational institutions, railway stations, shopping malls, Bus stations, offices etc. So, we can say that Notice boards are the places to leave public information such as advertise events, announce events or provide attention to the public, etc. Now days a Separate person is needed to stick that information on the notice board. It will lead to lose of time as well as usage of manpower. In conventional analog type notice boards paper is the main medium for information exchange. We know that information's counts are endless. So there is a usage of huge amount of paper for displaying those endless counts of information. The problems faced by the wooden or conventional type notice boards are resolved by the implementation of our digital notice board. It will bring an advanced means of passing notices around in the world in a much easier and efficient way. Due to the popularity of internet, we choose internet as a medium for transferring information's. The Internet of things (IoT) is the network of physical devices, vehicles, home appliances and other items embedded with electronics. Software, which enables these objects to connect and exchange data. Each device is uniquely identifiable through its embedded computing system but is able to inter operate within the existing Internet infrastructure for provide security, we add username and password type authentication system. So only respective authority can send information. Our primary aim is to get more people's attention on the display. By the usage of high definition display devices people can get more attention on the notice board rather than

conventional notice boards. In conventional wireless notice board can display only texted messages. But in our newly implemented system can display images and pdf documents in addition to text messages. Because in Educational institutions majority of information given from the higher authorities in the form of images or pdf format. So displaying these types of information make our system more user friendly. Due to the utilization of internet the sender can send message anywhere in the world.

II. SYSTEM ARCHITECTURE

The purposed of scheduling we are going to FIFO and priority scheduling algorithm. As per scheduling the notice is display on the automatic digital notice board. All the notices are display on LED, LCD display for connecting the software and display different Wi-Fimodem is used. Following is the flow chart which shows the flow of working of the system.



Flow diagram of the proposed system

The flow diagram above represents the various modules in

which the data is being processed at the time of operation.

III. LITERATURE REVIEW

The author proposed 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 128×64 graphical LCD as display element. [1]

The Author proposed that with the continuous development of librarianship, the functions of university library change. How to analyze the needs of university library users more effectively and rationally, thus provide corresponding service for the readers, has become a specific task which the future development of library will face. Data mining techniques can transform the collected data as questionnaires seeming to be uncorrelated and discrete into usable reference information provided to the library decision makers, which results in the effective dispose of the factors restraining users from using the library digital resource. Librarians not only should pay more attention to the specialties and academics research of all subjects, but also should not ignore the needs of some of small departments. And then, the library also can focus on recommending books to the active groups, have interactive communication with readers, and play more active roles to achieve the goal of efficient access to the reader needs and the reasonable books procurement based on the results of clustering. [2]

The author here proposed that Digital display board is a common sight today. Advertisement is going digital in recent days. The use of digital display boards at railway station, bus stands, shopping malls, educational institutions and public places are becoming an effective mode of communication in providing information to the people. But these off-the-shelf units are somewhat inflexible in terms of updating the message instantly. If the user wants to change the message it needs to be done using a computer and hence the person needs to be present at the location of the display board. It means the message cannot be changed from wherever or whenever. Also

the display board cannot be placed anywhere because of complex and delicate wiring. Digital notice board using IoT overcomes these drawbacks. [3]

The author proposed that Sharing information among a group of gathering is a very important and critical application in many circumstances. Even though many electronics notice board has evolved in the recent time, they are not flexible enough in serving its purpose. The aim of this project is to provide a well flexible and reliable e-Notice board which can be used in Colleges, Schools, Railway Stations, or in any group gatherings. This project is done with Raspberry Pi2 as a Server and the Arduino Boards with LCD displays as the Smart e-Notice Boards. [4]

The author proposed that IoT is the network of physical “things” or object that contain embedded technology to interface and sense to move with their internal states or the external setting. Automation is the most often spelled term within the field of electronics. The hunger for automation brought several revolutions within the existing technologies. Notice board could be a primary factor in any establishment or public places like bus stations, railway stations, colleges, malls etc. Sticking out numerous notices day to day could be a tough method. A separate person is needed to take care of this notice display. This project is regarding advanced wireless notice board. In IoT based Web Controlled Notice Board, Internet is employed to wirelessly send the message from Browser to the liquid crystal display. A local web server is created, this could be a global server over net. At the Raspberry Pi, LCD is used to display message and flask for receiving the message over network. Whenever Raspberry receives any wireless message from Web browser, it displays on the liquid crystal display. [5]

IV. OBJECTIVES

1. The objective of this project is to develop a wireless notice board that displays notice when a message is sent from the user's android application device.
2. This automated system can reduce the manual work.
3. The proposed system gives the automation.
4. A display connected to a server system should continuously listen for the incoming messages from user, process it display it on LED screen.
5. Messages displayed should be updated the user sends new information. Only authenticated people should update the data to be displayed on the monitor.

V. CONCLUSION AND FUTURE SCOPE

1. Helps in timely providing information about time table, guest lectures and many more stuff related to social boundaries
2. Timetable generation system generates timetable for each class and teacher, in keeping with the availability calendar if teacher, availability and capacity of physical resources and rules applicable at different classes, semester, teacher and subjects level. Best of all this timetable tremendously improves utilization and optimization.
3. It maximum and minimum work load for a faculty for a day and week will be specified for the efficient generation of timetable

VI. REFERENCES

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