

An Innovative Approach for Providing Advanced Data in Educational Institutions

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Abstract— Now a day's everything is becoming smart and secure. This paper describes how an institute will get information smartly. In this paper, it contains SD card which is useful to store the information which is updated. Using GSM technology a user which belongs to particular institute will get information according to his requirement. Using Ethernet connection a particular connection was established between the users and the institution. The whole thing was controlled by an embedded device. The whole system will make easy accessing of updated information with a mobile.

Key words: embedded system, SD card, Ethernet, GSM, mobile phone

I. INTRODUCTION

One of the major criteria for an industry development is conveying the information among the employees. The information exchanging, getting updated information will leads the industry to development side. For this information exchanging is happened in different ways. one thing is question to answer means in this a person or a employee will directly get information for his question. The other thing is individually have to go to get information in notice board. Always it is not possible to the individual to get information in notice board which leads the lagging of industry development. One of the other process to pass the information is storing the information in desk. For this process one of the specialized person should maintain and pass the information to employees or students. In this case may thief can modify or get the information of particular institute secrets. To avoid all these problems, in this paper we gave a system that will give information according to user choice like results, exams and so on without a human interference. By using this system individual will get according to his/her choice. The main aim of the system is to employ the information instantly. This system works with GSM module. Individual can communicate with the sytem using SMS. If board wanna convey information with a particular person, it is also possible by sending SMS with some specific format. By using this information user can get information even from out of the institution at any instant time.

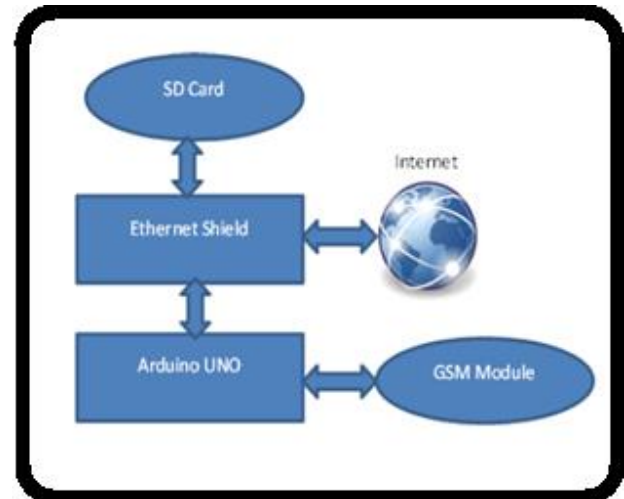


Fig. 1: An overview of system block diagram

II. METHODOLOGY

Conveying the information can be happened in two ways, the very first is the person get answers directly for his/her question. In another way, social medias also play vital role for conveying the information. But its possible for every person to open internet in his/her system because of expensive charges. Using GSM updation of notice board is also one of the best approach to update the employs/students. But its become to difficult for individuals to get information from a particular place where notice board can appear in the large area of institutions. In this system individual will get directly information according to his/her requirement by sending a simple message and he will get information in the form of message the can can become more easier for any person. The person can communicate with the system using GSM which play major role in the system.

III. AN OVERVIEW OF PROPOSED SYSTEM

The main aim of the system is to create notification system, so that user can get information about results, schedules and time tables instantly by the form of messages. In this paper we implemented a system passing information instantly. The major criteria of the system are to update the information instantly. This system works using GSM module. User can communicate with the system by SMS. Individual can send SMS to the system. According to the user requirement system will send SMS back to the user by using GSM. The system contains SD card, GSM SIM900d, aurdino board. The information which is stored in the SD card appear as text files(.txt). Each and Every file which is going to be stored in the card having its own name according to the specification of document. If user wants to get updated information he/she should follow one format which system

going to understand. If the information wants to change by the administrator or user also possible by sending SMS in special format. The machine and user can communicate with each other through SMS. The GSM module will get SMS from the user. The arduino board manipulate the data and send information using GSM module. If any worker wanna send beginning text the same information will send to the all user. All cell figures can be stored in the arduino board EEPROM. The received information is decoded with arduino and search appropriate data in the SD card using Ethernet and message will send to the user according to his choice. If the user sends wrong message format then the system will send correct message format to the sender. The system always check by itself by communicating all the components with in itself for up-to-date data. So control on information files happened automatically in SD card. Following the system was deployed within the Department of Electronic Engineering, MUET; it's been examined for correct and ongoing operation. Two instalments of asking for information happen to be talked about within this paper, the very first is the asking for from the updates in order to see whether there's been any up-to-date information and also the second test was the request of the specific information in the system, within this situation caused by a test. Looking here we are at the asked for record and formation from the SMS to become sent are minimal when in comparison towards the SMS delivery and reception occasions.

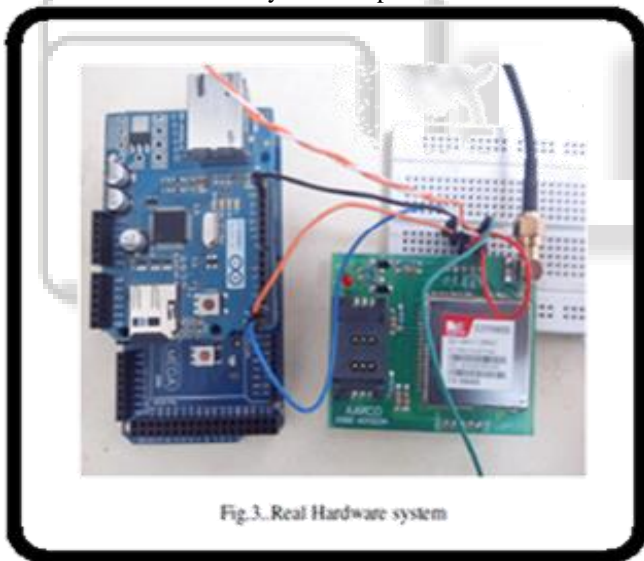


Fig.3. Real Hardware system

Fig. 2: An overview of hardware system

IV. CONCLUSION

In this paper we have implemented a system to update the employees or students instantly inside a college. The major factor here we have to consider is without no trouble, without no delay, without no expensive charges employee/student get updated about the institutions instantly. This quick updating can be happened by sending SMS according to requirement using GSM module .the whole system contains embedded system, GSM module, Ethernet card to communicate from outdoor users within the campus to update the information, SD card. The machine was proven to be effective when needing information remotely on the mobile phone via SMS.

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