

# Automated Attendance and Messaging System using Internet

<sup>[1]</sup>Rishikesh S.chavan <sup>[2]</sup>Onkar J. Renake, <sup>[3]</sup>Pritam R. Ruge, <sup>[4]</sup>Ayesha I.Nejkar .  
<sup>[1][2][3][4]</sup> Sharad Institute Of Technology College Of Engineering, Yadrav

**Abstract:** - Nowadays attendance in colleges is generally paper-based which may sometimes result in proxy. Automated time and attendance marking system can help schools and higher education in many ways. There is no doubt that an attendance management system will help to save time and money by eliminating a lot of manual processes involved in attendance. With automatic class attendance system, teachers can more accurately and quickly track student's time in the classroom. To overcome this problem we have implemented this system. In this system RFID and counter play very important role. RFID is becoming one of the latest and cost-effective technologies today. In this paper, we have automatized & computerized system with data reliability. This system provides all types of information regarding students, batch information. It provides all the information of a student starting from the first day to the end of his/her course so that it can be used later for all reporting purpose, attendance tracking and hence can be used for future reference. The main advantage of this system is to eliminate proxy attendance and thus to monitor regularity and assess the students. Thus this is helpful to maintain the overall discipline in the Institute.

**Index Terms**— RFID (radio frequency identification) tag , sensor module, Microcontroller.

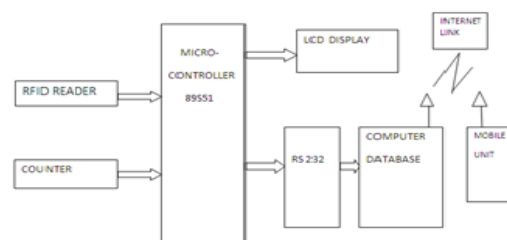
## I. INTRODUCTION

Nowadays attendance system is one of the most important things to ensure students attend their particular lectures. Some universities regulate class attendance as compulsory to each student who registered for a particular course. According to university rule, It is mandatory that student's must attained 75% total course of hours. otherwise student will be barred from attending any examinations. Currently, the practice of marking attendance in class is done through paper work method where the instructor or lecturer circulates the attendance sheet to the students which leads excess time consumption . Thus, the current practice can be further improved using RFID technology in which attendance can be collected without human intervention during lecture session. The proposed system aims to simplify the process of collecting class attendance where by the RFID reader automatically scans the tags and verifies the scanned data in databases. main while the prevision is added such that they count of number of unique ID scanned must equivalent the counter counting of the student existing out of the class. The main advantage of this proposed system is to eliminate proxy attendance, collected information is stored in server and message is send to parent's through internet.

## II. PROPOSED MODEL:

In this proposed model, RFID is placed to tag the card by the student. Each student is having its unique ID to get the access. This unique ID number will be sent to the microcontroller. After accessing unique id student will passing in between two IR sensors ,then the message will be send to the microcontroller and display this unique id as well as given to the main server, by using serial communication. Main work of the server is to fill up the data in software, the software is used to compare receiving id number and database store the data and compare then only the data will store in the server. The proxy attendance is detected. After this process the absent student parents automatic get the message.

## III. BLOCK DIAGRAM:



**Fig: Block diagram automated attendance and messaging system using internet**



the field and by doing so it can modulate the voltage sensed at the Transceiver according to the bit pattern it wishes to transmit. Tags are operable on Microwave (2.4 – 2.5 GHz), Ultra High Frequency (UHF) (860 – 1500 MHz), High Frequency.

#### **VII. CONCLUSION:**

The design and implementation of RFID based automatic attendance and messaging system which is the aim and objective of this paper was successfully implemented. This system Provides an effective and more convenient method of taking attendance when compared to the manual system. The main advantage of this proposed system is to eliminate proxy attendance, collected information is stored in server and message is send to parent's through internet.

#### **VIII. FUTURE SCOPE**

this proposed model can be extended using face recognitions

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