# INTERNATIONAL JOURNAL
# FOR RESEARCH

IN APPLIED SCIENCE & ENGINEERING TECHNOLOGY

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# Online Student Attendance System

P. N. Garad[1], S.P.Take[2], H. R. Khemnar[3], P. B. Abhang[4], V. S. Tamboli [5]

[1,2,3,4,5]Department of Computer Technology,

Padmashri Dr. Vitthalrao Vikhe Patil Rural Institute of Technology & Engineering (Polytechnic), Pravaranagar,

*Abstract — Today students' attendance is become more important part for any institutions. In present system all work is done on paper. The whole attendance is stored in register and at the end of the session the report is generated by calculating average of attendance which takes more time. . Recording and monitoring of class attendance is an area of administration that can require significant amounts of time and effort in a school/university environment, largely due to the amount of time required in lectures to get the necessary information[1] .At the end of session the students who don't have 75% of attendance get notice. In order to reduce time and human effort instead of manual attendance system we can use online attendance system. Hence, we design software for online attendance system. In this software, we can send message to student as well as to parent whose attendance is below 75% and who are absent. We are able to calculate percentage attendance when we required. In this software only staff has log in account and has right of making daily attendance and generating report.*

*Keywords—Online attendance, Percentage attendance, Send message .*

## I.  INTRODUCTION

Attendance Management System (AMS) is the easiest way to assist the faculty and the lecturer for this time-consuming process. The most common means of tracking student attendance in the classroom is by enforcing the students to manually sign the attendance sheet, which is normally passed around the classroom while the lecturer is conducting the lecture. For instance, lecturers with a large class may find the hassle of having the attendance sheet being passed around the class and the manual signing of attendance by students are burdensome and most likely distract them from teaching and getting full attention from the students. Besides, as the attendance sheet is passed around the class, some students may accidentally or purposely sign another student's name. The first case leads to a student missing out their name, while the latter leads to a false attendance record. Another issue of having the attendance record in a hardcopy form is that a lecturer may lose the attendance sheet. In terms of attendance analysis, the lecturer also has to perform manual computation to obtain the students' attendance percentage, which normally consume a lot of time. [2]Attendance Management System is software developed for daily student attendance in schools, colleges and institute. In this software only rights to the teachers of particular class . This system will also help in evaluating attendance eligibility criteria of students. This system eliminates the use of paper and space for storing the reports. After the class has been finished, the lecturer can view the student attendance system that has been saved in the faculty server. This online attendance system can be accessed by the administrator and staff. The system is fully controlled by administrator about the staff's profile, student information student attendance. The administrator can add new student, add new staff, view staff and student profile and view the student attendance report. The purpose of developing software is to computerized the tradition way of taking attendance. Another purpose of software is to generate the report automatically at the end of the session. The scope of project is the system on which the software is installed, i.e. the project is developed as a desktop application, and it will work for a particular institute. But later on the project can be modified to operate it online.

## II.  LITERATURE SURVEY

We see that in school & in collage attendance are taken manually. It difficult to calculate a report. This is not a systematic method where the form can be lost and may be damaged. And folders that it needs some spaces to put in rack or cabinet. Minimize the student cheating by asking their friends to sign the attendance form. This software can reduce time and the database report can be viewed and be printed immediately by the lecturer. Thus, the system is more efficient. In many colleges, hardware is used to take attendance like card swiping. In this technique, there are chances of making proxy entry or failure of hardware, etc. Also there is chance of lost of card as the card is small in size, light weight if the person is irresponsible.

## III.EXISTING SYSTEM

Till now Many schools, colleges and organization use process of manual attendance.This manual attendance consumes time and inefficient resulting in false marketing of attendance.Today, we did not maintain pen and paper based

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attendance,registers.Attendance record in hardcopy form and at the end of the semister the annual or term report was generated and then it was inform to the parents of particular student about there attendance with cause lost of time.In this case a lecturer may lose the attendance sheet.So,This record and time needs to be maintained properly.After this,mechanism used to take online attendance was biometrics and hardware devices like Finger prints,swaping card,Retina ,RFID techniques which causes risk of hardware to get damage.This may cause lose of data/information.Also the possiblity of giving proxy attendance is also possible in swapping card.In case of biometrics, if any damage or injury to finger will not identify the person.

## IV.PROPOSED SYSTEM

In order to overcome the drawbacks in existing system we propose a new System which does not required any hardware devices.In this system,the staff has authority to fill attendance, to view attendance and if any student is absent the staff just want to tick mark infront of the student and automatically the message will be sent to their parent.Parent can also view attendance,send feedback to any of the faculty member.

In this project, we gave access to three user i.e. Admin, Student, Others. This project is based on client-server. Here, the serve is Tomcat and client is JSP. In this project teachers or the admin will be filling attendance and sending message to the student who is absent. The flow of sending message will be attendance filled by teacher will be stored in database and also the message sent by teacher will be stored in database and when parent will open there account the message sent by teacher which is stored in database will be fetched and will view to parents or student. Also the system provides the facility to send message to the students whose Academic fees are pending.

Admin means staffs who have access to the system. They will have privilege to fill attendance form, update attendance form, send message to the guardian's account whose child is absent,also those attendance is less than 75%, and they also have privilege to send message to the students whose fees are pending. Each staff member will have its own user name and password they will be entering date, time along with the course while login. The staff can also view the message whenever they want and also can modify the details of students.

Parents have privilege to view attendance and to view message sent by the teacher. This message may be for absentees of student, less attendance i.e. below 75% or for pending fees. Parents will have their username and password for login.  So that the parents will be updated day-to-day.

Students also have their account with the privilege to view message sent by the subject teacher and to view the attendance. This message may be for absentees of student, less attendance i.e. below 75% or for pending fees. Students will also have their username and password for login.

## V.  ALGORITHM

1. Start
2. Select User Interface
        2.1. Teacher Go to Step 3
        2.2. Student Go to Step 6
        2.3. Parent Go to Step 7


3. Enter Username and Password
     If (Password and Username is Valid)
       Teacher  Go to Step 4
       Student Go to step 6
     Else
       Invalid password
4. Fill Attendance
    If (absent || attendance<75)
    Send msg
    Go to Step 8
6. View msg, attendance
     Go to step 8
7. View msg , attendance and give feedback

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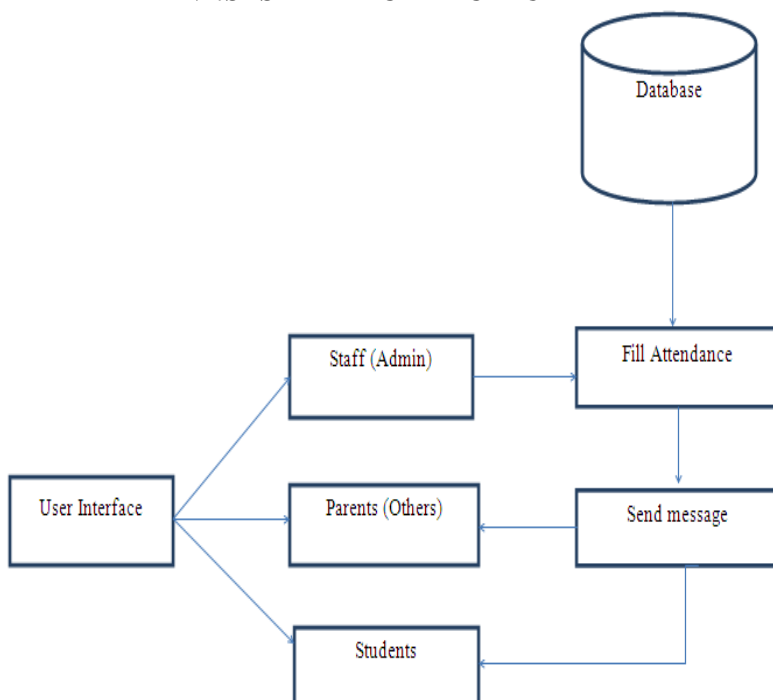
Go to step 8

8. Logout

## VI. SYSTEM ARCHITECHTURE



Fig. 1 System architecture

## VII.   RESULTS
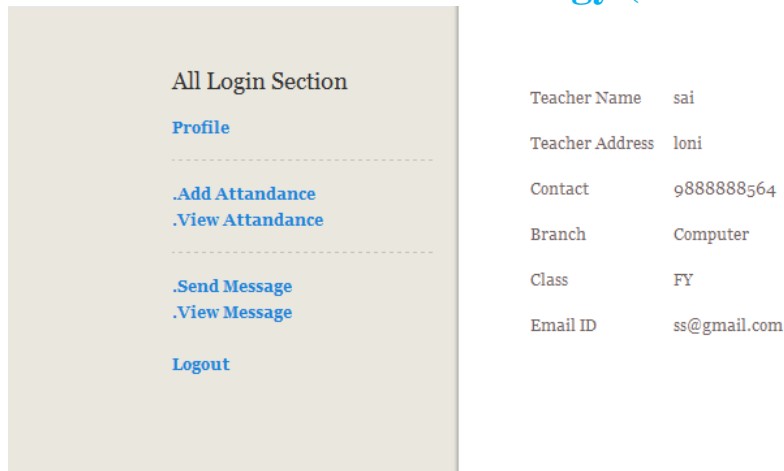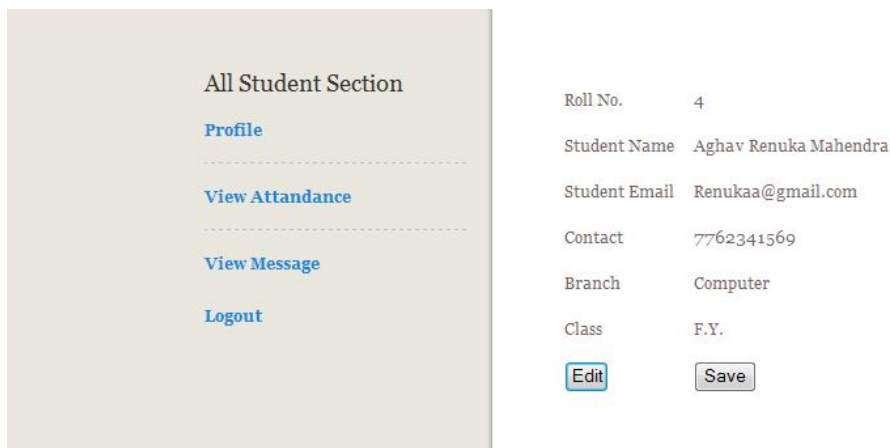


Fig.2 login form

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Fig 3 Admin account

Fig. 4 Student account

## VIII.    CONCLUSIONS

The online attendance management system will reduce human efforts and save time. There is chance of error in manual attendance as well as it required lot of calculation for report generating. By using of the proposed system there will not be chance of errors and we will easily generate reports. The developed system will very helpful in saving valuable time of students and lecturers, paper and generating report at required time.

By using proposed system student attendance will improve. Due to this system parent will get information about attendance of ward. This will improve the performance of student.

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