

Students Attendance Management System

T. M. Geethanjali¹ Maheshwari² Surabhi B. N.³ Vaishnavi R.⁴

¹Assistant Professor ^{2,3,4}Student

^{1,2,3,4}Department of Information Science & Engineering

^{1,2,3,4}P E S College of Engineering, Mandya, India

Abstract— The prime intention of making this project is to present a digitalized way to keep track the attendance of the student, which in turn would reduce the usage of pen and paper based manual method of marking attendance. Replacing the pen and paper method of taking the attendance, this system will conserve time and it will reduce the amount of task the teachers has to do. This system will replace the paper material with computer based system. This system deals with the maintenance of student's attendance details. It generates the attendance of the student on basis of presence in class. This system is maintained on the monthly basis of student's attendance. The teachers handling the individual subjects will be in charge of marking the attendance for all students. The attendance of student will marked if the student is present on that particular class. The system developed makes use of PostgreSQL as back end and PHP, HTML and CSS as front end. It generates the reports of student attendance.

Keywords: Attendance, Web Based Application, ID's

way of taking attendance. It is a platform for maintaining student attendance in schools, colleges and institutes. It makes easy for accessing the attendance information of a particular student in a particular class. In this proposed method, data accuracy is maintained, within a short span of time. The system is not only improves the work efficiency, but it also saves human and material resources. This system will help in evaluating attendance eligibility criteria of a student. All the attendance information of a student is fitted into the computer immediately and reports can be generated through computers.

A. Objectives

- To automate the attendance system without using any manual effort
- To make user friendly system
- To generate accurate results in calculation
- To generate desired reports
- To increase security

I. INTRODUCTION

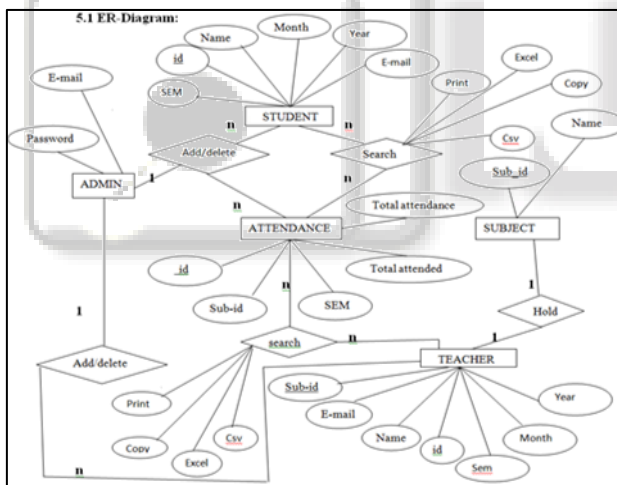


Fig. 1: Entity-Relationship(ER) Diagram of the Proposed System

In the present system, attendance of the student is maintained using the attendance registers. To maintain student's attendance data, attendance is taken manually by the teachers by calling out the students name/roll numbers or making students to write their name on the paper. In this method: paperwork, maintaining of records and computing the attendance of every student becomes very difficult. The attendance maintained in the registers is very difficult to manage as well as to update the data. In the present system it is very difficult of calculating the percentage of student attendance. Collecting previous year's data or backup of data is very difficult in this paper based method. Other disadvantage of the present system is paper work or sheets could be stolen. The motive of developing Students Attendance Management System is to digitalize the normal

II. RELATED WORK

Nowadays, there is much research made in the field of student attendance management system. There are multiple ways of developing an students attendance system like web based application, mobile based application, RFID (Radio Frequency Identification) fingerprint based attendance system, Bluetooth based application, and iris-based attendance system.

In [2] Web based student attendance management system used a SMS software technology. This software is used to send SMS quickly to student parents. These systems can store information regarding the students and those cares absent student details. The advantage of using this system is, it uses efficient technique to store and update the student attendance and report in the website rather than wasting paper work.

In [1] Web based student attendance management system used a QR (Quick Response) technology. In this technology, a student scans the QR code using a QR code scanner; it registers the students who are present in the class. Then this data is send to the server, where the server makes a call to the API.

In [4-7] Web based student attendance system using RFID technology will be more useful to improve the present way of taking the attendance of a student and tracking it. This system of taking attendance will be more helpful for universities or schools because it is easy to connect data to internet. This system promotes a semi-automated mode in capturing the student attendance, i.e. by making the students to move their id cards to the RFID reader.

III. PROPOSED METHODOLOGY

The proposed system i.e. web-based application. This is the most frequent attendance system available. This type of system is user friendly and cheap. The main important advantage of this system is students cannot fake attendance in the daily attendance sheet or steal the attendance registers. In our proposed system there are three type of user: admin, staff and students.

A. Admin

Admin has given the main authority to maintain the attendance of students. Admin is only person who can login into the system using login id and password and has the right for adding new student and teacher. Admin can add student and teacher details also. An admin has given the permission to update attendance of the student.

B. Staff

In our system, staff can view their profile and other staff profile by using their respective ids. Staff can also cross check the attendance updated by admin. Staff profile includes the name of the subject which they are teaching, the subject id and the number of class the staff has taken in a month along with month name and year. They can also view the percentage of classes they have taken.

C. Students

Students has only read rights throughout the system. He/She can view their personal information's and his/her attendance record by using their student ids.

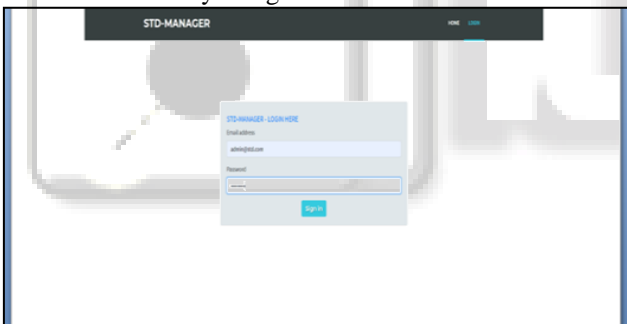


Fig. 2: Admin Login Page

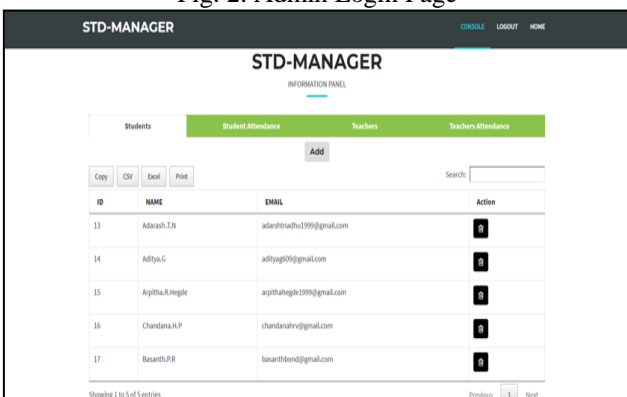


Fig. 3: Front View of the Proposed System

In our proposed, we can have the student's attendance reports. The more important is we can have reports of student profile and teacher profile information also. The attendance reports can be submitted to HOD/Principal of the college/institute for verifications.

IV. CONCLUSION

This paper shows the work done to implement the project "Student Attendance Management System" by using the PHP and HTML languages with the help of CSS and JAVA Servlets. According to the work, the project will make an easy way to maintain student attendance profile and to generate the attendance report of a student. This system uses least paper work and it is a user friendly.

V. FUTURE WORK

- This system can be further implemented as an android application.
- We can send a SMS/mail to the student parents who have less attendance.
- Bar code reader based attendance system can developed.

REFERENCES

- [1] Anitha V Pai, Krishna A, Kashma PM, Correa M. Web service for student attendance management system www.ijarse.com. 5(3): Mar 2016
- [2] Gangagowri G, Muthuselvi J, Sujitha S. Attendance management system based on SMS technology.
- [3] Pradnesh Dinesh Kore, Shubham Chandrakanth Kelkar, Gaurav Sunil Khare, Prof.Neha Singh. Published in (IJSRD/Conf/NACTT/2016/013)
- [4] Arbian N, Nordin NF, Isa NM, and Saaidin S. LAS: Web based laboratory attendance system by integrating RFID-Ardiuno technology. In IEEE: 2014.p.84-94.
- [5] Srinidhi M, Roy R. A web enabled secured system for attendance monitoring and real time location tracking using biometric and RFID technology. In IEEE: 2015.p.125.
- [6] Arulogun O, Olatunbosun A, Fakolujo O, Olaniyi O. RFID-based student's attendance management system. Int J Sci Eng Res. 2013;4(2):1-9.
- [7] Kassim M, Mazlan H, Zaini N, Salleh MK. Web-based student attendance system using RFID technology. In IEEE; 2012.p.213-8.
- [8] Karwan Jacksi, Falah Ibrahim, Shahab Ali. Student Attendance Management System. In SJET, Feb 2018; 6(2):49-53.