Online Attendance System

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Abstract -- Online Attendance System is a web portal designed for taking and managing student's attendance in institutions by means of Smartphone as well as desktops. Till now the college uses paper records. The project use database to keep the track of attendance and is used to generate a report for individual student. The whole system is handled by admin about the faculties profile and student's data. The class in-charge can add new student. The head of department can add new staff, view staff and student and view the student attendance report. The main purpose of developing this web portal is to overcome the traditional way of taking and managing attendance. Another aim is to automate the task of report generation at the end of the session.

Indexed Terms: Online Attendance System, Attendance System, Student Attendance System, College Attendance System, Attendance using smartphone, etc.

I. INTRODUCTION

The task of taking attendance and managing it is difficult task because it needs lots of calculations and labor work. Traditional way of managing and taking attendance is tedious task and it requires paper work which is not feasible. At the end time of each session the class in-charge has to calculate attendance of each student for the detention list of the students. So we come up with a solution of online attendance system which manages every task related to attendance in an efficient way. This system will generate reports at the end of session, take backup for data recovery if system fails and do every calculation accurately.

Every user of the system has user id and passwords. The roles are assigned by administrator user. He/she has the full accessed to assigned and remove roles of the user and also to manage other details regarding department. The class in-charge has right to add, remove and update the details of students. Students can view their attendance. This portal can be accessed anywhere and anytime. This system is compatible with any device i.e. it can be open in small screen mobile phones also.

II. RELATED WORK

Using Smartphone like as Android Technology or ios Technology the course teacher will be able to take and manage attendance easily by our designed mobile application and save the attendance in the phone as well as in server and can check percentage and also can print as hard copy. Using the stored data, this software can mark attendance, send emails and send text messages (SMS) to the parents. This system has an access from any place and any moment which may assist the course teacher with keeping track of their student's attendance. [1]

Providing accurate and efficient attendance management system for real time is a challenge. It is hard to mark the attendance of students in classroom when there are so many students attending the class. The attendance management system which is based on the face recognition has some issue. Thus many researches are still done to improve system. This paper review the previous work done on attendance management software based on facial recognition. [2]

Academic record and performance is directly affected by student attendance. There are various manual and automated attendance tracking systems exists that work to ensure that students attend the lectures without fail. However, the implementation of automated attendance system have disadvantages such as high maintenance cost, the need specialized environment to run system, and proneness to false or proxy attendance. To handle this, we propose a attendance management system with which students can give attendance using their mobile phones. While applying face recognition with the use of mobile phone's front camera to identify the student', the system also use of the campus Wi-Fi network to determine the student's current location. The proposed system doesn't require high maintenance cost or specialized running environment. Fingerprinting is the technique which can be used to

get indoor location, can become a good positioning system for classrooms also, where signal interference is usually high. [3]

III. OBJECTIVES

- To automate the task of attendance related work.
- To automate the task of calculation related to attendance and the detention students list.
- To view overall analysis in very less time with effective result.

IV. PROPOSED SYSTEM

To overcome the disadvantages of existing system, a website is designed for attendance of students. The system consists of four actors:-
1. ADMIN
2. HEAD OF DEPARTMENT
3. FACULTY
4. STUDENT

1. Admin:
Admin is a super user who can create any Head of Department (HOD), Faculty. Add, Remove Update Semester, Teacher's Account. He /She can access any class details view any student profile, overall analysis of semester and access attendance records. Manage backup files.

2. Head of Department (HOD):
HOD is the respective super head of their department. She/he has role to assign which teachers will teach respective subject. Assign class in-charge of respective semester, etc. HOD can view student's record as well as overall analysis of class and other semesters.

3. Faculty:
Faculty is classified as

- Class In-charge:
The Class In-charge has the authority to edit the attendance, send mail, notice, she/he can also update the details of student, etc. The difference that separates the class in-charge and normal faculty is

that if a student was absent for some external reasons such as forum activities, IEEE events, etc. his attendance can be marked only by the class in-charge.

- Normal faculty:
The faculty can mark attendance of his/her subject only.Can view overall attendance of the subject.

4. Student:
Student can check attendance for multiple lectures of present day. Check average attendance with the help of graphs.

V. CONCLUSION AND FUTURE SCOPE

- CONCLUSION:
The Online Attendance System (OAS) is developed using PHP and other web-development technologies to fulfill the objective of the system. The system is managed in an efficient way and all the users associated with the system know its advantages. The system solves the problem. It is intended to solve the requirement specification of the system. It reduces use of paper and saves time to generate accurate results from student's attendance. It provides security by using individual login id and password.

- FUTURE SCOPE:
We can merge this system with other modules like student leave management, internal marks calculation system, etc. We can also move for ERP software by considering attendance system as its sub module.

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