Survey on Student Attendance Management System

Udit Jain\textsuperscript{1}, Vishal Singh\textsuperscript{2}, Syed Asif Irfan\textsuperscript{3}, Pavan Sharma\textsuperscript{4}

Student\textsuperscript{1,2,3}, Professor\textsuperscript{4}
Department of Computer Science and Engineering
ABES Institute of Technology, Ghaziabad, India

Abstract:
The main objective of developing this system is to present an automated way to keep track of attendance which would reduce the present pen and paper based manual method of marking attendance. Replacing the tedious old method this system will save time, reduce the amount of work the teachers has to do and will replace the stationery material with a computer based system. This system deals with the maintenance of the student’s attendance details. It generates the attendance of the student on basis of presence in class. It is maintained on the daily basis of their attendance. The staffs will be provided with the separate username & password to make the student’s presence. The staffs handling the particular subjects will be responsible to mark the attendance for all students. Only if the student present on that particular period, the attendance will be marked.

Keywords: Database, PHP, SQL, HTML.

I. INTRODUCTION

The data framework is essential in gathering all information also data of all staff or part in one association to be in one spot. The framework is typically given extremely accommodating errand that will supplant the human as to keep it in record as the stock or different purposes. To outline a supportive framework with a specific end goal to make simplicity to the client, the framework is created by utilizing Xampp Server interfacing with database that is using 'PHP' language as the dialect or guideline of the framework. The proposed framework is a standalone framework. This framework centered on recording and updating the information. It is additionally given report on the other hand printed record to the client in the framework which will make the status of the student simpler to be checked. This new framework utilized database idea to store all the data which related with area application forms. This framework focused around database idea which is more solid. All learner information will be kept in a devoted database. By utilizing this database idea, a few issues, for example, information misfortune and harm could be stayed away from. This framework additionally focused to make a simple checking students' status. By utilizing this framework, staffs can check the students' status quicker in time contrasted with the current framework. Hence, the staff can lessen holding up time in place to check all the documents like some time recently. The other target is the issue that identified with looking and upgrading the information. Staffs can pursue and upgrade the information methodically. This framework will give a few capacities, for example, looking and overhauling so as to help the staffs to control the information applications [1]. Furthermore, each one sub-framework has validation permitting approved clients to make or overhaul data in that subsystem. All information is altogether evaluated and approved on the server before real record adjustment happens. In addition to a staff client interface, the framework plans for student client interface, permitting clients to get to data and submit demands online accordingly lessening transforming time. All information is put away safely on Xampp servers oversaw by the college executive and guarantees most astounding conceivable level of security. The framework offers a complex logging framework to track all clients get to and guarantee adjustment to information access rules also is relied upon to expand the proficiency of the college's record administration consequently diminishing the work hours required to get to and convey understudy records to clients. At one time, the school depended intensely on paper records for this activity. While paper records are a customary method for overseeing student information there are a few downsides to this system. First and foremost, to pass on data to the students it ought to be shown on the notice board and the understudy need to visit the notice board to watch that data. It takes an extremely long time to pass on the data to the understudy. Paper records are hard to oversee and track. The physical effort needed to recover, adjust, and re-record the paper records are all no esteem included exercises [2]. This video of Online Attendance Management System Project in Php by Kasarla Shanthan was very effective in explaining the disadvantages of the traditional attendance management system and why we need an automated system. It described the various actors and their roles in the various processes. The features of the system and the operations performed by the actors were also explained very easily. We also got the step wise functioning of the traditional attendance management system and along with this an idea of how to automate this system was also briefed. Discussion with the faculties of college: Since this web application is a customized application that will be use in our college it was necessary to include the rules, constraints and the policies made by the college. Interaction with the faculties gave us a chance to closely understand all the problems that are faced by the teachers while taking attendance and managing attendance. We also took inputs about what additional features they want.

II. OBJECTIVES

Objectives of this research are:-

- Giving online interface for students.
- Expanding the effectiveness of college record administration.
- Abatement time needed to access and convey students’ records.
- To make the framework more secure.
III. PROPOSED WORK

The purpose of developing attendance management system is to computerized the tradition way of taking attendance. Another purpose for developing this software is to generate the report automatically at the end of the session or in the between of the session. The proposed system is user friendly because the retrieval and storing of data is fast and data is maintained efficiently. The graphical user interface is provided in the proposed system, which provides user to deal with the system very easily.

A. Flow of The System:

![Flow of Student Attendance Management System](image)

There is separate login section for each admin, teachers and students. To use the system first of all registration of teachers and students has to be done. After login, admin can do verification of teacher and updation of timetables. The tasks of teachers is to take and view attendance, handover lectures and promote students. The tasks of students are view attendance and make request to teacher.

B. Functional Modules:

The system is divided into three modules Admin module, Teacher module and Student module.

1) Admin Module:

In this module the admin will first of all login and then he will be able to perform tasks that are verification of the teachers who want to register themselves also he can do regular updation of timetable.

2) Teacher Module

This module includes registration of teachers. After registration and verification by the admin, teacher will be able to login and perform operations like taking and viewing attendance, handover the lectures to another teacher and promote students from one semester to another.

3) Student Module:

This module includes registration of students which is verified by their roll numbers initially fed in database so that no fake person can register. After this login, can be done and then students can view their profile, make changes to it, view their attendance. Also, student can make a request to teacher for attendance in case his attendance is not marked even though he was present.

IV. CONCLUSION

The survey helps in building the system for automating the attendance system. It also focuses on generating monthly attendance of every student so that it is easy for teachers to analyze it and take action accordingly. With this study, we have proposed an efficient Student Attendance System to take and maintain attendance of students for all educational institutes. This proposed system along taking and viewing attendance will provide additional features i.e. making requests to teachers so that unmarked attendance can be marked. Also, there will be a provision for handovering lectures to other teachers. Thus this system will be beneficial for institute.

V. REFERENCES
