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**1. Abstract :**

In the realm of educational institutions, managing and tracking student attendance has been a long-standing challenge. Traditional methods of taking attendance using paper registers are not only time-consuming but also prone to errors and security risks. To address these issues, the Student Attendance Management System was conceived.The primary aim of this project is to create an integrated attendance management system that simplifies and automates the process of recording and calculating student attendance. The system is designed to offer a modern solution to a traditional problem, making attendance management more efficient and transparent.

**2. Problem Statement :**

Apparently in our today world things cannot be done organized, accurately and

efficiently using file based system so making things globally in a digitized way is a tremendous advantage in especially this type of Attendance management system program. Just think what if your institution does not have an online presence, the chances are you could be losing valuable and efficient data and by so doing you will eventually lose business and customers to your competitors who do have effective and active online presences.

The existing attendance system requires a lot of paperwork and manual calculations. This is hectic for the teachers who handle more classes. This also helps the student to view their attendance status at any time and for any subject without approaching teacher. The problem at hand is to create a robust and comprehensive system that can efficiently and accurately manage student attendance records in a digital format. This system should cater to the needs of students, teachers, and administrators while maintaining data security and accessibility.

**3. Introduction**

Attendance Management System is software developed for daily evaluation of

students in their continuous assessment record, and performance in accordance with the principle of the institution. It is facilitated to access the performance and information of attendance of a particular Student in a particular semester of study.

The information is sorted by the teachers, instructors and advisors, as provided by the student for a particular day throughout a complete semester. This system will also enable the evaluation of student regular presence in various lectures which will determine the eligibility of the student to sit for a semester examination.

Attendance Management System basically has three main modules for

proper functioning

• First module is admin which hold the key for editing and updating

information. The admin has absolute right to all the users which are

the Teachers and Student.

• Second module is handled by the user which can be a Teacher or

Instructor. This user has a right of making daily attendance, updating,

editing and generating reports to the students.

• Third is handled by a user which is the Student, he has less privilege

to the access of the system; the student can only view his own record

by providing his username and password. He will be able to see the

percentage of his Attendance as well as his results. If any comment or

change of class Schedule the student can see in his own profile only.

**4. Existing Solution :**

In the present system all work is done on paper. The whole session attendance is stored in register and at the end of the semester the reports are generated and it takes more time in calculation. By the way we are not interested in generating report in the end of the semester but during the semester for the student to take note of his situation, and the department to know what action to take on students with poor attendance even before Exam.

So, we are not able to get student regularity report and take necessary action on students whenever we want because of having very time consuming process.

Not User Friendly: The existing system is not user friendly because the retrieval of data is very slow and data is not maintained efficiently.

Difficulty in report generating: We require more calculations to generate the report so it is generated at the end of the semester. And the student doesn’t get a single chance to improve their Attendance.

Manual control: All calculations to generate report are done manually so there is greater chance of errors.

Lots of paperwork: Existing system requires lot of paper work. Loss of even a single register/record led to difficult situation because all the papers are needed to generate the reports.

**5. Proposed Solution :**

The new system has been designed as per the user requirements so as to fulfil almost all the below features:

* To create an integrated platform that simplifies the process of recording and calculating student attendance.
* To empower students by providing them with real-time access to their attendance records.
* To reduce the administrative burden on teachers by automating attendance recording.
* To ensure data accuracy and security through role-based access control.
* To offer administrators the capability to manage users and data efficiently.

**6. Architecture Diagram :**

* **ADMIN**

A diagram of a web server

Description automatically generated

* A diagram of a web server

  Description automatically generated**TEACHER**
* **STUDENT**

A diagram of a computer server

Description automatically generated

**7. Expected Output :**

* **ADMIN**

A screenshot of a computer

Description automatically generatedA screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

* **TEACHER**

A screen shot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

* **STUDENT**

A screenshot of a computer

Description automatically generated

**8. Conclusion**

The Student Attendance Management System is a substantial step forward in the management and tracking of student attendance in educational institutions. By addressing long-standing issues with traditional methods, it offers a modern, efficient, and user-friendly solution. The system empowers students, reduces the administrative workload on teachers, ensures data accuracy and security, and provides administrators with control over user management.

The potential impact of this system is significant, as it simplifies the complexities of attendance tracking in a digital age. It enhances the educational experience for students, teachers, and administrators, creating a win-win scenario for all stakeholders. The successful implementation of the Student Attendance Management System can make a positive contribution to educational institutions and their commitment to academic excellence.

**9. References :**

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