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## ONLINE ATTENDANCE MANAGEMENT SYSTEM

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### ABSTRACT

The maintenance of the student's attendance information is handled by the student attendance management system. Based on the student's attendance in class, it calculates their attendance. It is upheld on a daily basis based on their presence. A unique login and password will be given to the staff so they can update the students' status. The staff members in charge of certain subjects are in charge of ensuring that all pupils attend class. The attendance will only be calculated if the student was present during that particular period. Weekly and aggregate reports on student attendance will be produced.

Keywords: attendance management, computerized, student, data.

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## 1. INTRODUCTION

### 1.1 ABOUT THE PROJECT

For everyday student attendance in schools, universities, and institutes, this project is a web application. It makes it easier to get a specific student's attendance data for a certain class. The operators, which the teacher for a certain class will present, sort the material. This approach will also aid in determining a student's eligibility for attendance.

Purpose:

The development of an attendance management system has as its goal the computerization of the manual process of taking attendance. The software's automatic report generation at the session's end or in between sessions is another reason for its development.

Features:

- Track attendance online from home or work or school
- Easy to use interface to enter attendance data
- Import Tools allow you to load your entire class list in minutes
- Manage all students attendance
- Accurate Results
- Plan your time
- Make your workplace more comfortable.

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## 2. SYSTEM ANALYSIS

### 2.1 EXISTING SYSTEM

Over the years, it has been apparent that practically all educational institutions still use the manual attendance technique. The procedure is not only time-consuming, but occasionally ineffective, leading to erroneous attendance markings. We no longer need to keep attendance records on paper and ink.

### 2.2 PROPOSED SYSTEM

The main goal of our system is to provide an effective and user-friendly Web application for an Attendance Monitoring. The user's (in this case, the teacher's) computer will have the application installed. It aims to offer a teacher interface for entering the bare minimum of information needed to record a class of students' attendance. In addition, the programme would provide rapid data transmission through the web service and strong user authentication. The fact that no data in any way would be saved on the user device is another notable aspect of the entire application. As the application would only be managed by the teacher, it would also help to prevent the possibility of a proxy.

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### 3. SYSTEM METHODOLOGY

1. User authentication
2. Invoking Web Services
3. Adding Attendance Marks
4. Show student information

#### 3.1 User identification

A login screen will initially be displayed when the instructor launches the application for the first time and asks them to input the username and password needed for authentication. A special username made up of a combination of alphanumeric characters will be given to the teacher. A "success" message and a redirect to the following screen will only appear if the teacher has entered the proper username and password.

#### 3.2 Calling a Web Service

In this module, the instructor must choose information such as the subject's name, the lecture's start time, and the specific semester in which the lecture is held. After that, the teacher must click a button on the screen to invoke the online service. The web service would then respond with a list of names for all the students in a specific semester and branch based on the input given.

#### 3.3 Recording Attendance

Following the presentation of the student list, the teacher must start the process of recording each student's attendance. In order to accomplish this, our programme will offer checkboxes next to each student's name so that the teacher can indicate whether or not the student is present. Thus, the student's information will be transmitted to a distant database, and the attendance for that specific day will be recorded.

#### 3.4 Display student information:

After successfully marking a student's attendance, the teacher can at any time verify that student's attendance history by inputting the individual roll number that is given to each student. The data provided would include the student's overall attendance rate, the number of lectures they have attended for a given subject, the number of lectures they have missed, and their attendance percentage.

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### 4. CONCLUSION

This paper presents a web-based tool for tracking attendance. The programme provides dependability, time savings, and simple control. It can serve as a foundation for similar programmes to track attendance in workplaces or in offices.

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