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Student Attendance Mobile Application

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ABSTRACT: -

Attendance is one of the most important things in almost every industry be it a school, college or a working place. It helps officials to track the presence and absence of the student or employee. Managing attendance is a big problem in academics and it can be a big problem in every department in education sector. Teachers find it very difficult to maintain registers of student's attendance of different classes as it requires a lot of manual work which can leads to errors. In this project we are going to develop an android application for taking student's attendance digitally through an android smartphone which will help school teachers to get out of that hectic burden of maintaining registers marking and calculating attendance manually. an assignment it detects that it is plagiarized or not by comparing with other students assignments. For this we will use Android Platform and Java programming language to get proposed output.

Key-Words: - Student Attendance Mobile Application, Android Apps, Android Studio, Java.

I. Introduction

Attendance can be defined as to note the presence or absence of any person on any particular event be it a lecture, seminar or concert. This Smart Attendance system is built for school teachers for taking the attendance of students present in the class. Attendance plays a vital role in academics of any student; it helps teacher to know about the absentees and resolve their reason for the same. Lack of proper attendance affects the education quality of the students. This attendance system helps teachers to keep the record of each student attendance efficiently and with less complexity as compare to maintaining registers.

In current scenario, marking attendance in the class session and entering the marks of the students are the essential tasks of the subject handlers, since marking the attendance can regulate the students to attend the sessions and verify the number of students in the class. Record of marks is inevitable to analyse the performance of the students in their exams. The management and maintenance of student information is a key task for any institution. The task of marking attendance and making entry of the exam makes are traditionally carried out manually with a log book. Later, this task is carried out by the desktop applications.

The desktop application is a standalone application installed in the particular desktop or laptop and the tasks can be performed only with that particular desktop system. The main drawback of this system is that the computer systems are not portable hence it cannot be kept anywhere to perform the task such as mark and attendance entry. The entered marks can be viewed only on the particular system if the desktop is not connected with network. Another method for mark and attendance entry is web-based application. In this method, the attendance and the marks details are uploaded in a server through internet and the users such as students, parents, and teachers can view the marks and attendance through browsers with internet using any one of the devices such as desktop, laptop, and hand held mobile devices. This system is active only when the internet is on since the data are not been updated with the local database.

II. Problem Formulation

The core function of Student Attendance Mobile Application is to facilitate teachers and encourage digital usage for taking attendance. Specifically, the main purpose of Student Attendance Mobile Application is to ease the manual and hectic work of managing attendance registers, which is not only a difficult, slow, less reliable but also need extra care to keep it safe. Our project allows teachers to take attendance through their android smartphones. Our application have a user friendly and easy to use and understand UI.

Attendance Management System is software developed for daily student attendance in schools, colleges and institutes. It facilitates to access the attendance information of a particular student in a particular class. This system will also help in evaluating attendance eligibility criteria of a student. By just a click on the mouse, the system will be able to produce the students' attendance report thus reducing the need for manual labour which is prone to human errors and time consuming.

This application is built for automating the processing of attendance. It also enhances the speed of performing attendance task easily.

The Student Attendance will be based on the department and section. According to the department wise and section wise the attendance will be marked for the students. It includes present, absent and leave column for each student so that they would mark the attendance like period wise. By just a click on the mouse, the system will be able to produce the students' attendance report thus reducing the need for manual labour which is prone to human errors and time.

III. Literature Review

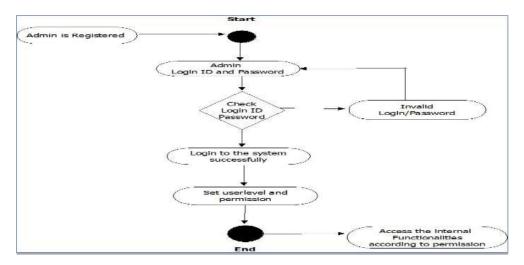
As the tremendous success that Digital India Campaign have gained during the past few years, it is the time the digitalize the manual way of taking attendance. This inspired many developers to come with their ideas and make a effect tool for the same purpose. The study of various approaches proposed by different developers and the limitations of those approaches inspire us to develop a Student Attendance Mobile Application that is user friendly and produces reliable results.

Limitation of existing System:

1.Manual Attendance by pen and paper. It is oldest way of taking attendance. A register is maintained in schools and colleges with details of students and their attendance. It requires human efforts and extra resources such as register and pen and is less accurate. As marking attendance is a daily task, performing the same thing again and again make it inefficient.

IV. Methodology

Student Attendance Mobile application is built using Java.



V. Result Discussions

Following are the outcomes of the project:

- 1. The admin (here HOD or principal) will be able to add the teachers in the application.
- 2. The admin will be able to add students of their institute with respect to their branch and year.
- 3. The admin will be able to remove and view any teacher and students.
- 4. An Id and password will be provided to the teachers.
- 5. The teacher will be able to login in to the application.
- 6. The teacher will be able to see students of different branch, year and mark their attendance of the given date.
- 7. The teacher will be able to view attendance of students by providing inputs like date, year, branch.

VI. Conclusion

Attendance is one of the most important things in almost every industry be it a school, college or a working place. It helps officials to track the presence and absence of the student or employee. As the attendance can be taken with smartphone teachers will not have to carry heavy registers. Teachers will be able to focus on other important tasks for betterment of students rather than spending hours to manage the papers. There are various advantages of using our project such as:

- 1. Teachers can take attendance faster, accurate and more efficiently.
- 2. Manual paper work will be reduced and storing the attendance will be easier than papers.
- 3. The user-friendly UI will allow teacher to understand and use the application easily.
- 4. Tracking the attendance will be easy.

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