



## Android Attendance Management System

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Peer Review Information	Abstract
<p><i>Submission: 1 Sept 2025</i></p> <p><i>Revision: 28 Sept 2025</i></p> <p><i>Acceptance: 12 Oct 2025</i></p> <p><b>Keywords</b></p> <p><i>Android University Student Attendance Institution</i></p>	<p>Every institution, whether it be a government agency, a private corporation, or a school, needs to regulate attendance. It will be necessary for organizations to monitor their employees and students in order to evaluate their performance. It is quite challenging to control attendance in a large corporation. Keeping track of students' attendance during class has grown to be a challenging task. The capacity to calculate the attendance % becomes a significant task because manual computation is time-consuming and prone to errors. An effective Web-based application for an attendance management system is created to monitor student participation in the classroom for the aforementioned purpose. This application electronically registers attendance, and the data is stored in a database. The Laravel framework's strength is used in its implementation. JavaScript enhances the application to make the system easier to use. The application database is MySQL. The technique is designed to distinguish between theoretical and practical lesson hours because their rates differ when determining the percentage of students that miss class.</p>

### INTRODUCTION

Most notably, unlike the conventional techniques of Attendance is a critical component of every organization. Attendance in classtakes up a lot of time if the organization is as strong as a school or college. Therefore, keeping track of absences when there are a lot of kids in a classroom. Furthermore, completing the attendance rates for every student requires a lot of time and work from the department's staff. As a result, attendance is a crucial metric that is employed for a number of reasons in many educational institutions and associations. Keeping records, evaluating pupils, and encouraging optimal and regular attendance in class are some of these goals. Since most universities in poor nations have a minimum percentage of students who must attend class, and this regulation has not been followed, because of the various challenges. The process of recording attendances for students was in the

form of hardcopy papers and the system was manually done.

Tracking attendance is an essential responsibility for keeping an eye on involvement and participation in organizations and educational institutions. Conventional techniques for recording attendance, including manual sign-ins or paper-based registers, are laborious, prone to mistakes, and challenging to maintain over time. Utilizing mobile technology, an Android Attendance System offers a more intelligent and effective way to track and manage attendance. A program called Android Attendance System was created to track students' daily attendance in educational institutions. It makes it easier to retrieve a specific student's attendance data for a certain class. The teacher for a given class will supply the operators, which are used to sort the data.

## METHODOLOGY

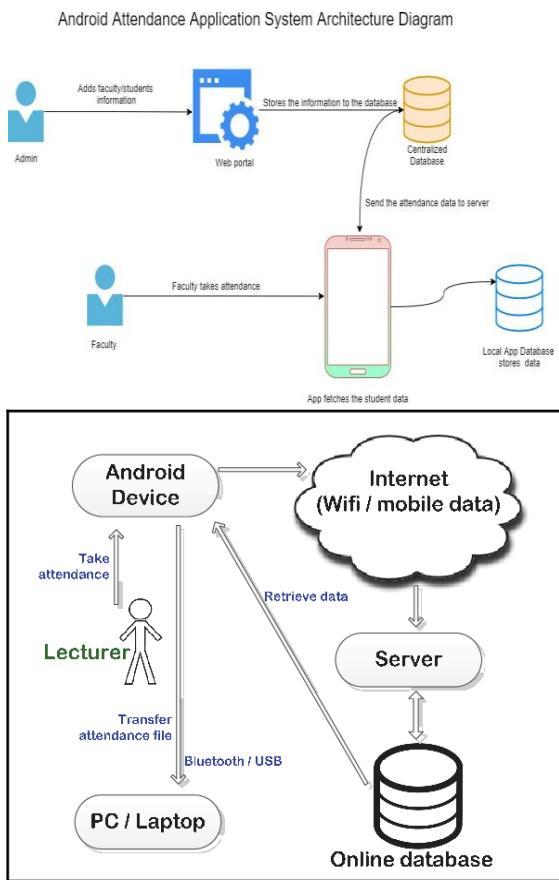


Figure 1. System architectural diagram

This project adopts a software development research approach with a focus on system design and implementation. The development methodology is iterative to allow flexibility in incorporating feedback throughout the project.

Through the use of an Android-based attendance management application, the method we are describing in this paper seeks to address the issues associated with recording students' attendance at school. The implementation of this suggested method will undoubtedly reduce the value of hardware and its upkeep, given that it is anticipated that the majority of lecturers already own an Android handset. Additionally, Android smartphones are typically light weight, portable, and compact, making them easy to use anywhere, at any time. We began the first stage of system development by enumerating the characteristics that the appliance would offer, keeping the desired result in mind. A teacher must first install the APK file on their device in order to use the appliance. Their Android gadget. The instructor will need to enter their user ID and password to access the application when it has been turned on.

## CONCLUSION

This By cutting down on the time and computations needed to manually update the attendance, this program helps faculty members feel less stressed at work. The software is being used by management personnel at different levels in a number of ways, such as viewing student performance and attendance information. The management staff can obtain the information for a variety of decision-making analyses around-the-clock by using this optimized mobile application. All organizations, including educational institutions, must regulate attendance. By monitoring employees, including kids, to optimize their performance, it may oversee and regulate any organization's success. By adding a feature that allows users to skip days, we can make the attendance module more dynamic. When a teacher is on unscheduled leave or there is a college holiday, for example, skipping an attendance day will be justified. Future upgrade possibilities for our application include the ability to customize student details inside a batch, add, remove, and modify a batch, and customize subjects. The suggested system provides a way to monitor students' attendance. Its goal is to save time and effort by assisting teachers in the classroom or labs in managing and recording students' presence directly and electronically, eliminating the need for paper lists.

- Easy execution Environment
- Generate report Flexibly

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