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## Attendance Management System

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### ABSTRACT

Attendance Management System is a system of tracking the attendance using an android app. The mobile application is a windows-based application, and it is built using the java programming language, XML and SQL Lite. In this app, we have designed a smart student attendance system based on android. In comparison with traditional attendance systems, this android app provides faster, cheaper, reachable and user-friendly system for student attendance and generates the attendance automatically, it will save time

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### 1 INTRODUCTION

Student Attendance Management System app deals with the maintenance of the student's attendance details. It generates the attendance of the students on the basis of presence in class. It is maintaining the daily basis of attendance, the staff will be provided with the username and password to make student attendance. Not only that, it developed for daily student attendance, in particular class, for a particular subject. The teacher handling the particular subject is responsible to make the attendance for all students. Only if the student is present on the particular date, the attendance will be calculated or marked. It also has the feature to access the attendance information of a particular student on every subject. This mobile application mainly consists of two login modules, namely admin login and teacher login. It will reduce operational time, increased accuracy and reliability. In this app, the chances of loss of data are less because all the data will be stored in a database. Security is very important when it comes to data looking to this matter, we have designed this app in a way that unauthorized access is not possible, to access data, users have to enter the username and password provided by the admin.

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### II. EXISTING SYSTEM

In the existing system, we have been taking attendance in register result of consuming a lot of time. In the register method, there is more possibility of redundant data when updating the attendance of the entire school or college, it takes a lot of time.

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### III. PROPOSED SYSTEM

The main goal of our project is to create a user-friendly android app to take attendance using the android app. By using this application, a teacher can take student attendance easily and view the details of the student in a single click and modify the attendance of the student.

## IV. MODULES

Attendance Management System has two modules, an admin module and a teacher module.

### Admin Module

- Add Student,
- Add Faculty,
- Add Teacher,
- View Student,
- View Teacher,
- View Student Attendance and
- View each student's attendance separately.

### Teacher Module:

- Take the attendance and keep and view them class-wise,
- Add New student and view student's attendance separately,
- Edit Student/Attendance later and
- Save notes subject-wise.

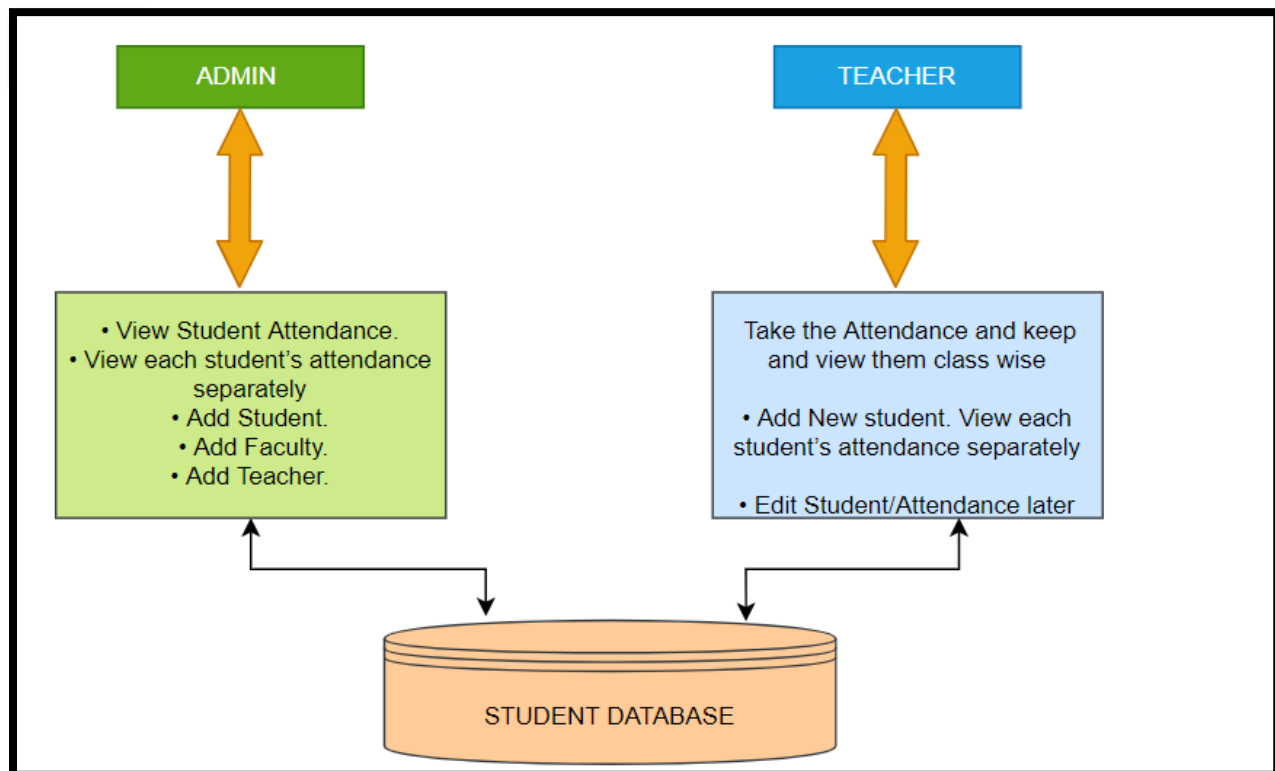


Figure 1: Schematic diagram of mobile application for mark and attendance management system.

## V. IMPLEMENTATION DETAILS

This mobile application is developed using Android Studio (version 4.2.2 (June 2021)) with Java Platform, and SQL Lite Database. The application is implemented with the computer system specification of Windows 10 operating system, 8GB RAM and 500GB Hard disk with CPU: Intel® Core™ i5 – 3460 CPU 3.50GHz.

The following steps are taken to develop the mobile application:

Step 1: Launch the android studio.

Step 2: Select the new project option and enter the project name.

Step 3: Write the program in (.java) file.

Step 4: Design the interface in (.xml) file.

Step 5: Save the program in the folder.

Step 6: Build the project and run the project.

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## V. RESULT AND DISCUSSION

In the existing system teachers are taking/marking the attendance in the register or using pen and paper, so to avoid this manual process we are designing the android app to save the time to take attendance. In this paper, we have designed the android app for the student attendance and to store the student attendance. This app is enabled with two login modes, namely student and staff.

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## VI. CONCLUSION

On the above discussion, we can conclude that the project can be implemented for attendance anywhere using an android device easily. The system solves the problem as per the objective of the program. It solves the requirement specification. This android app or project helps the teacher to reduce the workload by reducing the time and calculations required to update attendance manually.

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