

COLLEGE ATTENDANCE SYSTEM THROUGH MOBILE

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Abstract - This project is based on a very new and easy to handle feature of college attendance through mobile. It keeps track of all the information regarding the regular attendance of students. This project mainly aims at transparency of work and to reduce the work for teachers, administrators, and students. . It reduces the amount of paperwork in attendance. The mobile attendance system has been built to eliminate the time and effort in taking attendance in schools and colleges.

vision to accomplish its goals. It generates the attendance of the student on basis of their presence in class. It is maintained on a daily basis of their attendance. The staff will be provided with a separate username & password to take the student’s status. It helps the teacher to take attendance through their smartphone and to keep the record of the attendance in their pocket for any time use.

Key Words: Login, Attendance, Report, Administrator, Faculty, Student.

1. INTRODUCTION

College Attendance System through mobile is software developed for daily student attendance in colleges and institutes. It allows to access the attendance information of a particular student in a particular class. The information is stored by the administrator as well as the faculty, which will be provided to the lecturer for a particular class.

This system is developed using java in the android studio through which teachers and administrators can register the number of students of a particular class, add the number of subjects in that class and mark the attendance of the present and absent students. Student Attendance report consists of the name, roll number, absent/present status of the student in a particular subject. The faculty has the list on his phone to mark the attendance. This data is stored in the faculty mobile phone and direct in the database. Faculty and administrator also can view all details anytime on their phone. The final report of attendance will be generated in PDF based on the record from the database.

2. Motivation

In the last few years due to the improvement of the technical education system in India has developed. Student Attendance Management System is an android based application that helps the institute to move forward, fulfill its

3. System Requirement

Table 1: Hardware specification

Processor	Intel core 3
RAM	4GB
Disk Space	100GB Hard Disk
Graphics	2GB Graphics
Device	Android Smart Phone

Table 2: Software specification

Operating System	Windows 10
Front End	Java
Back End	SQLite Database

4. System Design

Flowchart: - “Figure1 is representation of College Attendance System through Mobile”

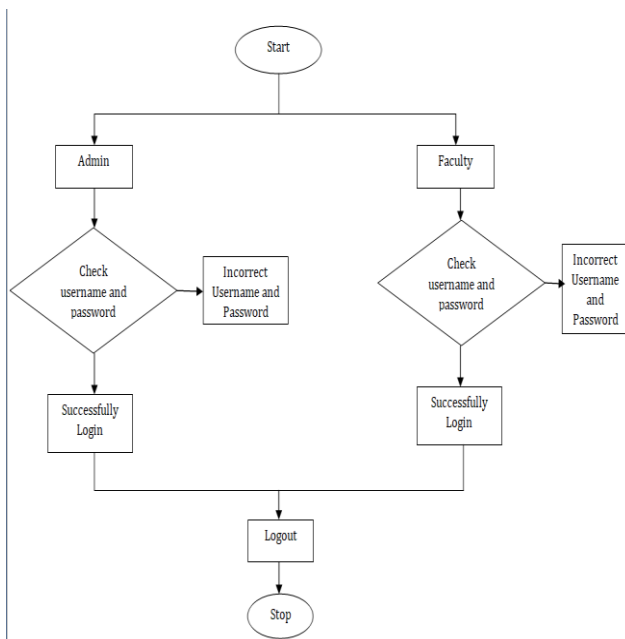


Fig -1: Flow chart

5. Methodology

The Attendance System through Mobile using Android is implemented in 5 small phases:

1. Login Page.
2. Admin Activities.
3. Faculty Activities.
4. Student View Attendance.
5. Attendance Report.

1. Login page

This is the main activity of the project Designed using java in Android Studio. This page includes two logins i.e. Admin and Faculty and the required authentication username and password are stored in the database. The database used is built-in of Android Studio i.e. SQLite.

2. Admin Activity

This activity adds the following fields such as class, student, subject, faculty, date and time, view total students, and also view attendance report per student.

3. Faculty Activity

This activity does actual work of marking the present and absentee of every student on the particular date using the calendar which is stored in the database in table form.

4. Student View Attendance

Every student can view their attendance.

5. Attendance Report.

Using all the detail we generate a Report using a database records.

6. Result and Discussion

Input

- **Run Application on Android device.**
- **Login for Admin/Faculty.**
- **Admin Login.**

Add student:-Admin can add multiple students.

View students:-Admin can view the student list.

Attendance per students:-Admin can monitor all the student records.

Add faculty (Have to Register by own):-Admin can add every new Faculty in a record for e.g. Faculty name, Address, mobile number. Assign username and password for login to the application.

View Faculty:-Admin can view the faculty records.

Log out: - At last logout of the application.

- **Faculty Login:**

Add Attendance:-Faculty can mark the student attendance as per the enrolled number of student.

Select class:-Faculty can select a particular class i.e. FE, SE, TE, BE.

Branch:-Faculty can select branch i.e. IT, CSE, MECH, CIVIL, E&TC.

Year:-Faculty can select the year.

Date:-Faculty can update the current date and time.

Subject:-Faculty can select a particular subject as per the branch and class.

Output

View total Attendance:-Admin and faculty can view the total attendance of the individual student based on specific class and branch.

Roll number:-Based on class and branch unique roll numbers will be updated in the final report and stored in the database.

Student name: - Based on class and branch unique Student name will be updated in the final report and stored in the database

Status of the student(Present/Absent):- According to faculty marked attendance the status of attendance whether the student is present or absent will be recorded in the database.

Generate Reports: - Final PDF report will include roll number, Name, and status of present or absent students based on faculty attendance.

7. CONCLUSIONS

By this system attendance marking and report generation becomes easy. Less chance of malfunctioning is there. This project is intended to replace the old system of attendance register with a digital register that can show its worthiness by its features and ease to use. With due course of time, we intend to establish a connection with the college server to access and update the attendance over the college LAN. Features like sending warning messages to the student with low attendance, and a student portal to check their attendance are planning to get added.

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