



ANDROID ATTENDANCE MANAGEMENT SYSTEM

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ABSTRACT: Attendance Management System is a mobile application that deals with the maintenance of the student's attendance details. It generates the attendance of the student on basis of their presence in class. Attendance is maintained on a daily basis. The admin is responsible to register students and as well as faculty. A separate username & password is provided by the admin to the faculty to mark the student's attendance. The faculty handling the particular subject is responsible to mark the attendance for all the students. Only if the student is present on that particular period, the attendance will be calculated. The student's attendance report on a daily basis and consolidate will be generated. Students can also login into the app using the credentials provided to them by the admin and check their attendance percentage in any of the assigned subjects whenever required

INTRODUCTION:

Tracking students' attendance is a day-to-day activity performed by every faculty. This is a very important process since it reflects the student's discipline. To make this process easier for the faculty and students, we have come up with an idea of a mobile application where attendance can be recorded and

monitored from time to time. Student can also get the updated attendance from time to time. Though maintaining physical records for attendance is important, they are more prone to loss of data. This mobile application also helps in generating attendance report and downloading it as an excel file. There will be no chance of losing the data.

Hence, the Attendance Management System app is an android application

that helps faculty to record attendance, generate a report and monitor it and also helps students to know their updated attendance.

OBJECTIVES

The objective of this project is to create an android application "Attendance Management System", where faculty will be able to record and monitor the attendance and student will be able to get his/her updated attendance details. The main purpose of developing the Attendance Management System App is to virtualize the traditional way of taking attendance and checking it. Marking the attendance in physical records and generating the digital report at the end of each month can be a time taking task. This application makes the attendance marking and report generation process faster. It also becomes easy for the faculty to identify the students with attendance less than 75%, as this application also generates cumulative attendance analysis of each student. The attendance reports can be generated efficiently and accurately. Students can have the updated attendance when ever required.

SCOPE

The scope of this project is that the admin can get the attendance report of any class for any subject. Faculty can also view the cumulative attendance analysis, where the attendance percentage of each student is displayed. Attendance percentage with less than 75% is displayed with different. Faculty can also download the day-wise attendance report as an excel file to monitor the attendance of the students. Students can view the most recently updated attendance of them, whenever necessary.

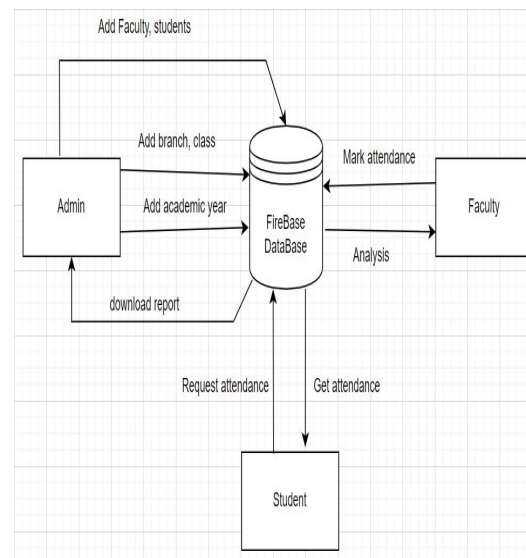


Fig : Architecture

Existing System:

In the Existing method of the attendance management system, admin and faculty

are the users. Admin is responsible to add the faculty, subjects, branches, batches of students and assign subjects to the faculty. Faculty can mark the attendance for the subjects assigned to him/her by the admin. Faculty can view cumulative as well as day-wise attendance of the students. Both admin and faculty can download the attendance of the students in the form of excel sheet.

Proposed System:

In the existing method, student cannot view his/her attendance. Student has to wait until the attendance report is displayed on the notice board. In the proposed method, student can login into the app using the login credentials assigned by the admin. Student can view his/her attendance at any time in the subjects he is assigned to. It is the responsibility of the admin to create a batch of students and assign them the password. Student can change the password later whenever required.

Implementation:

LOGIN PAGE

Login page is used to authenticate the users. It contains two Edit Text views to

take email and password as input. These Edit Text views are followed by a "Login" button. User can also click on Text View "Forgot/Reset Password" to reset their password.

ADMIN HOME PAGE

It contains a toolbar which contains three buttons. One button is to open the slide view, in which it contains buttons to add new branch, create class type, create new section, add admission year, add academic year, and create multiple student's account, change password and logout. Second button is used to logout and third button is to know about the app. This home page also contains buttons to add faculty, remove faculty, add subject, delete attendance report and download attendance report.

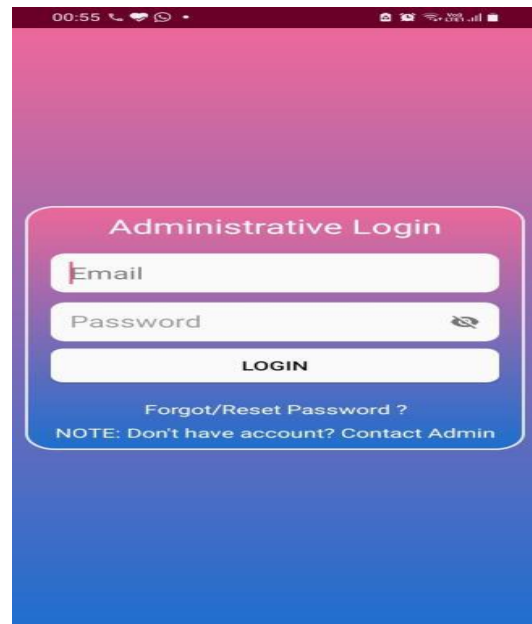
FACULTY HOME PAGE

Faculty Homepage contains a toolbar which has three buttons in it. First button is to open the slide view which contains buttons to download attendance sheet, reset password and logout. Second button is used to logout and the third button is used to know more about the app. This user interface also contains a text view to display current date and time. And two buttons, one is to take

attendance and the other is to view the attendance reports.

COLLECTIVE ATTENDANCE PAGE

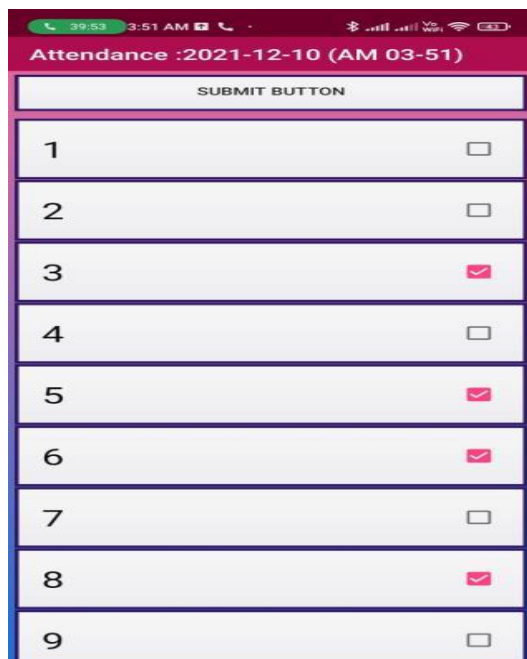
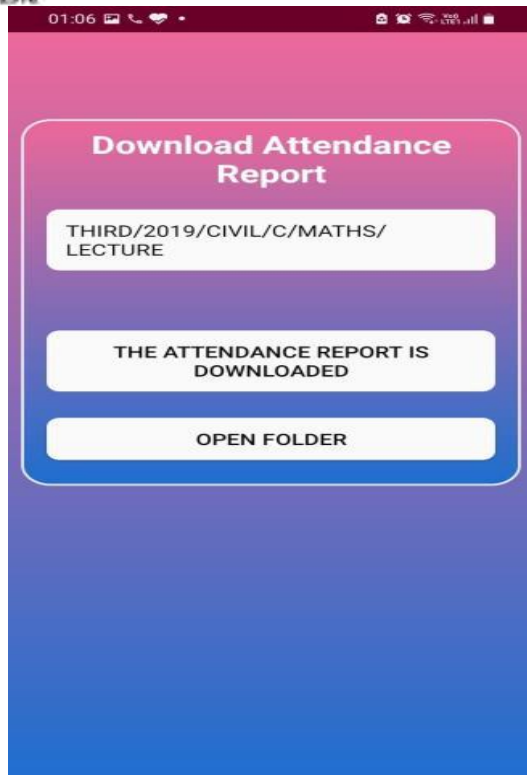
This user interface contains multiple card views. Each card view contains text views to display student's roll number, number of days the student is present, number of days the student is absent and attendance percentage. If attendance percentage is less than 75%, then it is represented in red color



Results:







CONCLUSION AND FUTURE SCOPE:

The project is aimed to mark and store the attendance of the students.

Check List App is an efficient application to mark and maintain the attendance. Admin is responsible for creating different branches, classes, sections, admission and academic years and faculty. Faculty is responsible to mark the attendance. Both, Admin and Faculty can view the attendance report and download it as an excel file

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