Teacher’s Aide.

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**Abstract:**Teacher’s Aide is a Android based application which can prove helpful for all the college faculties especially Class teachers to maintain a record for irregularities shown by various students. This application will also include a feature that will help in maintaining a daily record of students that enter the college premises past the given time. Teacher’s Aide will include a monthly blacklist section which shall help teachers to list out all the students who have been irregular for more than 5 times in the same month. Teacher’s Aide will provide a user-friendly interface for all the faculties and will also lessen the burden of maintaining paperwork. The future scope of Teacher’s Aide shall include a proper attendance system and if possible have a complete platform for the teachers. Thus, taking Indian education system closer to technology.

**Keywords:**

1. API: Application Programming Interface
2. UI: User Interface
3. IDE: Integrated Development Environment
4. INTRODUCTION

Everyone thinks the job of teaching is pretty easy to handle but no one actually knows how tough it is for teachers to manage everything starting from attendance records to defaulters list to submitting their monthly records to the respective HOD. So we decided to develop an application that deals with all these issues through this single platform i.e. Teacher’s Aide.

Teacher’s aide will remind teachers of their daily schedule via push notifications which includes all lectures plus an additional reminder to conduct the attendance of the respective classroom 10 minutes before the lecture ends. The attendance poll will be simple and user friendly as the teacher will only have to take note of only the absentees. As soon as the teacher submits the list, it’ll be updated automatically in the database.

As soon as the month end approaches, the teacher will be provided a defaulter list generated by the app itself. The app shall also include record for the late-comers and prepare a special list consisting of students who frequently enter the college late.

A counter is set for the students who appear in the defaulters list, this counter increments as and when the similar name shows a reappearance in the list.

1. REQUIREMENTS
2. Software Requirements
3. Android 4.0 and above i.e. API level 15 & above
4. Hardware Requirements
5. Processor : 300 MHz or higher
6. RAM : 50 MB or higher
7. Hard Disk:100 MB Approx.
8. MERITS
9. HTML page is also available
10. Reduce paper work and save time and money.
11. Eliminate duplicate data entry and errors in time and attendance entry.
12. Automatic calculation of leave and late comers.
13. Easy attendance recording techniques.
14. Push notifications for the faculty, regarding their daily schedules.
15. Auto-generate various types of reports of class or student’s attendance.
16. Increase security and confidentiality.
17. DEMERITS
18. Large Database.
19. Requires an active internet connection.
20. REAL WORLD REQUIREMENTS
21. To lessen the burden of paper work.
22. To make the working of teachers easy.
23. FUTURE SCOPE
24. Make the app available for all the branches.
25. Better UI.
26. If possible, make the app available for ios.
27. EASE OF USE

Teachers aide being an android application , can be easily accessed through almost all android phones . The app can be accessed anywhere and anytime with a simple working internet connection. And the data is easily updated on daily basis

1. PLATFORM
2. Android
3. WORKING OF APPLICATION

Teacher first logs in by entering the user name and password, Then she selects the class. Then three fields will be available for the teacher. Sr no, roll number and Batch (in case of practicals). As soon as the teacher submits the details an object will be created which will consist of all the roll numbers. In backend, PHP will decode this object and the roll numbers will be arranged in columns along with the name and department. And thus the database will also send the roll numbers with the help of an object if you want to retrieve the data. PHP again decodes and the teacher is informed accordingly.

Second tab: Defaulters list

Defaulters list will be automatically created by the application. Application will take the data from database and calculate number of working days and every student’s no of absent days. If the student’s present percentage will be less than 75% then that student’s name and roll number will be added in defaulters list, and this list will be sent to teacher on 1st of every month so that teacher can take appropriate action against student.

Third tab: Check teacher’s time table

Teacher will have to upload her time table also in database so that he/she can get push notifications daily about time and class room in which he/she had to take lecture. This will help teachers save time by regularly checking physical time table and get notified about time table through phone. You can call it Digital time table also.

CONCLUSION

Teachers aide thus comes with a over the top advantage to the college/school teachers and hence reducing all the paper work .

REFERENCE

* Dev.android.com
* Wikipedia.