

# Attendance Notifier

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## Abstract

**Android is a mobile operating system (OS) based on the Linux kernel and currently developed by Google. We are going to create an android .apk file for colleges where every class lecturer will register every student of that class and start attendance. Attendance will be taken as below.**

**First of all, lecturer will select class name, subject and section, a list of students of that class will be displayed then faculty will tick on checkbox for students after that who are present attendance will be recorded and then a message will be sent to parent number for that his child is present or absent in the class .Our android “.apk” will also do the following:-  
faculty can send time table to student, faculty can send important college notice to student and college can inform anything to student.**

**Keywords:** Attendance Notifier, lecturer, linux, faculty, student.

## 1. Introduction

Since ages, marking attendance has been one of the most important way to record and track the presence of students in schools and colleges .This used to be done on paper work which consume much time more manpower. To overcome all this we are implementing a “Android Mobile App”.

This is a paper representing an “.apk file” for colleges where every class lecturer will register every student of that class and start attendance. Android is a mobile operating system(os) based on Linux kernel and currently

developed by Google . With a user interface based on direct manipulation , android is designed primarily for touch screen mobile devices such as smart phones and tablet computers ,with specialized user interfaces foe televisions (android tv),cars (android app auto),and wrist watches(android wear).

## 2. Survey of Previous Work

.An adaptation of the web-based system architecture in the development of the online attendance system:  
Student attendance record play a very important role in academic organisations that have a very eminent affect on student's performances. Since ages all of the work in these organisations was done manually eventually increasing the workload of the staff. This paper is all about the online web based system of attendance, basically it is a website which runs on Apache tom cat server by using this idea we are making .Apk file to maintain attendance record digitally. This paper is based on web. So lot of problems related to web arises and how our paper overcome these drawbacks are stated below.

a. As it is web based an internet connection is must. Although every time it is not possible to have an internet connection whereas our paper is not web based. It is a pure android application and it does not require any internet connection.

b. IT takes a lot of time to manage or handle a web based application. On the other hand our application does not take so much time to manage everything

c. The cost factor comes into the picture in a web based application for example we will have to purchase a domain for it but our application doesn't require so much of overhead and neither the cost factor comes in between. You just need to install it through the Google play store or you need to share it through Bluetooth and your work is done[1]

**Easy Access Attendance Management System:**

Easy access attendance management system is a device which was developed by electrical engineering faculty, niversity technology mara malaysia.in this survey paper we analysed that the student will get the identity card and the that card contains a unique barcode .as they enter into the university their barcode will be scanned by the EAMS machine. This system will not record the attendance of every lecture through this system we got an idea to develop a system that will record the attendance of every lecture that is held in college in this way we can figure the students that are cheating in terms of attendance.[2]

**The Implementation of Wireless Student Attendance System in an Examination Procedure:**This survey paper gives an idea about the having attendance record at the time of examination. By using this idea we are preparing a .apk file that will keep the attendance record of every lecture on a daily basis.[3]

**The development of the web-based Attendance Register System (ARS) for higher academic institution:** From feasibility study to the design phase:This paper presented a web based attendance register or website known as ARS .this website is basically developed for higher institutions of Malaysia keeping the annual attendance record by studying this paper we get to know that attendance record is maintain through website and we are preparing for an .apk file which keeps the attendance record.[4]

**3.Proposed system.**

This application consists of 3 modules.

**1. Student**

Students will first have to register themselves .After registration they will get their respective user name and passwords. They can check their monthly attendance with the help of this application. By using this application they will come to know how much fine is imposed on them.

**2. Staff**

There will be teaching module. The purpose of teaching staff is to maintain the record digitally. On the basis of a particular student's record they will have to calculate his aggregate attendance and also the fine of the student. The staff can also send notifications to the students through messages via this application.

**3. Admin**

The role of the admin will be to accept the request that is sent by a student or teacher for the registration. He will make sure that there will be unique identity of each requested student and staff. The main role of admin is that at developer's side he has every authority to make changes whichever are required.

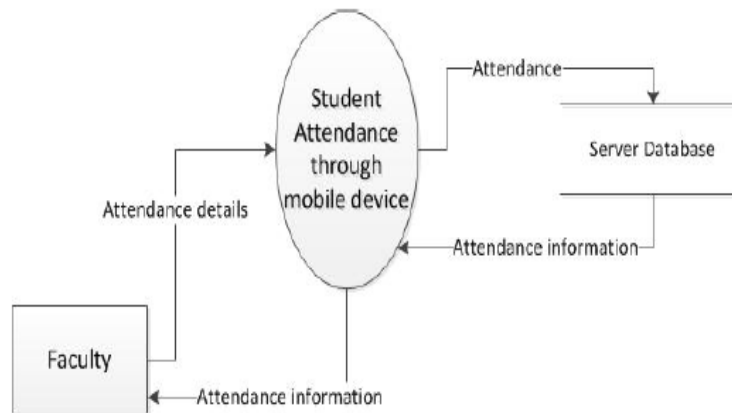


Fig: context diagram

The features of this application are as follows:-

- Record attendance. The attendance that will be taken in the class by the staff will be automatically recorded in the college server. There is no need for the staff to manually calculate the monthly or daily attendance and keep the record of that information in their computers.
- Send notifications via messages Whenever the attendance of the students will be taken then each and every parent will be informed about the absence or presence of their respective children. Moreover the overall aggregate attendance information will be sent

each parent. At the end of the semester fine will be generated according to the individual's performance and the information of the fine will be sent to their respective parent via messages.

Every student will have to register and a particular id and password will be allocated to each student. There cannot be multiple identity of a single student. There will be a unique identity for every student. In case if a student's id gets crashed then in those circumstances the student will have to contact the admin.

Every staff member will have to register themselves and a particular unique identity will be allotted to them. They will then select the branch and semester and the whole list of the students will be displayed. Further, they will calculate the attendance in the application using checkboxes indicating the absence and presence of the student. Automatically the status of the student will be sent to their respective guardian. According to each student's monthly performance, fine will be calculated and the imposed fine will be sent to the respective parent through the server.

The role of the admin will be to accept the request that is sent by a student or teacher for the registration. He will make sure that there will be unique identity of each requested student and staff. The main role of admin is that at developer's side he has every authority to make changes whichever are required. According to the number of registered students the admin will make a list of semester followed by branches containing no of students. Any problem regarding the identity will be solved by the admin.

#### 4 Benefits

- It is less time consuming than manual attendance
- Paperwork is reduced overall
- Overhead gets reduced.
- It is much simpler than manual attendance.

#### 5. Conclusions

The attendance system through mobile devices is a very effective tool which can be used to a great extent. The system is portable and can be easily installed and used on any mobile phones supporting Android OS. The use of this system can result in a reduction of number of hours spent in feeding the attendance details in the server database. It also provides an interface which is easy to

understand by the users and greatly helps in adapting to the use of this system

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