# A Survey on Smartphone Attendance System

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**ABSTRACT***:* This project deals with the college student's attendance details. The lecturer takes attendance on the daily basis, depending upon the presence of the students they can mark present or absent on the Electronic Register which has the Android facility. The electronic register has ON/OFF button for present or absent, by default the Register is set as P for present that is ON and if the particular student is absent then the button is pushed to A for absent that is OFF. This has been handed over to the HOD who is in-charge of consolidating the overall performance of the students in the college and allots the facilities for the students to avail. If the student has less than 75% attendance he is coming under the eligibility criteria of using the college facility like Library, laboratory and games.

**KEYWORDS***:* Mobile computing, Attendance system, QR code, GSM.

## I.  INTRODUCTION

The staffs are provided with the system to mark attendance for every student on the android register in the college on daily basis. an accurate student attendance report is generated here.  This system will also help to increase number of student in eligibility criteria. Student's attendance report will generate on weekly and monthly basis is generated. if the student has above 75% attendance he can avail the library facilities. if the attendance shows less than 75% then the student is not eligible to take the book's from the library, as the qr code of the student contains the information of the attendance with his id number.

## II.  EXISTING SYSTEM

E learning and use of electronic devices to improve attendance is the major goal of it that meets the system of attendance online. [9]   Attendance should take by register each student day by day registration take the student selfy and signature. [1] to take attendance it uses client server architecture and crypto graphical functions. [6] fingerprint is the key of attendance required extra hardware part to take fingerprint. [7] Radio frequency identification is use to identify student to collect attendance. [8] The attendance is recorded using voice automation and then updated in the database. [2] QR CODE will scan each time to take attendance it uses card or cell phone to contain the QR CODE. [5]
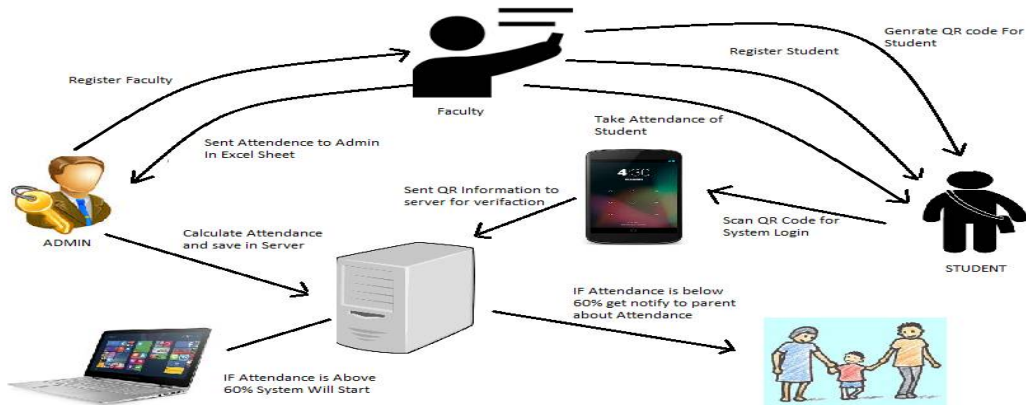
## III. RELATED WORK

In this proposed project we are making an application which will have the attendance record of the student. It will calculate the attendance and based on that calculation the students will be allowed to enjoy the other facilities in college, if the attendance is below the mark then on weekly basis a message will be sent to the student's parent. Then the student will have to face the charges implied.

So basically, the admin (HOD) will assign the faculty and the students to those faculties. Those faculties will go to the classroom and take the attendance and pass it to the admin. It is admin's job to feed that data in the server. The server will maintain the calculated record. All these information's will be synchronised to the QR code provided to the students. On scanning that QR code all the information can be checked and various facilities can be availed by the student.

Many more trials and efforts are being made to illustrate the easy to define system architecture, combinely these are referred as ADL's.

**Decision tree**:

A decision tree is a structure which is look like flowchart in which root node is called parent node and each branch represents the outcome of the test and each leaf node represents as child node. The classification rules represent the path from root to leaf.

Decision tree is drawn using flowchart symbols like as it is easier for many to read and understand.



**Algorithm**:

Decision tree is a classifier in the form of a tree structure

Nodes: Decision tree defines order in the form of tree like structure.

Decision node: It defines test on single peculiarity (quality).

Leaf node: Indicates the value of target.

Architecture/Edge: It bifurcates on attribute path.

Example: by starting at the root of the tree and going through it until leaf node. Pros of electronics attendance: Data is well structured and well maintained. Livelihood is easy and perfect.

Decision trees classify instances or examples by starting at the root of the tree and moving through it until a leaf node.

## IV. PROPOSED SYSTEM

In the proposed system, accurate results are developed and easy to retrieve. Easy for maintaining proper information. No need of paper works there for do not take large space. In a short period the calculation for attendance will be done and preceded for the next operation. Data are well maintained in database. And if there is shortage in attendance, information is passed on to the concerned parents/guardians and students to alert them.

Advantages of Smart attendance:
- This is fast in providing details of particular students.
- Maintenance of the system is easy.
- Users can interact with system more easily.
- Data is to be accurate.
- Students are motivated to maintain proper attendance.

**Cons of smart attendance**:
- Users must make an entry very carefully.
- Students cannot enjoy the other facilities of the college.

**Modules**:
**HOD**:
- Hod Is the Admin of The Application.
- All Work Can Be Handled By the Hod Such As Registration Of Staff, Calculate AndGenerate Attendance And Sent Notification To Parents.

**FACULTY:**
- Staff Has a Login Id.
- Staff Can Register Student, Take Attendance Using Android Phone, And Submit to HodIn Form of Excel Sheet.

**STUDENT:**
- Student Can Login.
- Student Can Scan Qr Code If Student Is Eligible the System Will Start Else NotificationWill Sent to Parent.

## V. CONCLUSION AND FUTURE WORK

The lecturer takes attendance on the daily basis, depending upon the presence of the studentsthey can mark present or absent on the Electronic Register which has the Android facility. Theelectronic register has ON/OFF button for present or absent, by default the Register is set as Pfor present that is ON and if the particular student is absent then the button is pushed to A forabsent that is OFF. This will result in accurate attendance management system.

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