Chapter I

**INTRODUCTION**

**Background of the study**

Android –Based Smart Student Attendance System is a type of a system used to identify the student who has joined their class. It helps the student especially with the surnames at the end that get tired of waiting for them to be called. Through this system it will be easier for them to be present in the class because they can be able to use their smartphone to get the attendance. This study is significant to those students whose schooling in these pandemic times. In addition, this app is a great help to teachers and student as it delivers a quick process so that it does not have to be difficult to put the name of the students. It takes the name, course and block of the department of a student and it’s automatically installed in the database system it shows the lack and total of those student. This system is access through online .

According to GreatSchools (2011) state that the rate of student’s attendance is important and there is a possibility that they will succeed in their academics by entering their school and also it is difficult for teacher to form the class if the others are not present. Sometimes it is hard for others to keep up because they are not able to attend their class. Lukkarinen et.al (2016) states that Student class attendance and engagement plays an important role in today’s higher education.

## Theoretical Framework

**User**

\*Add a new user to DB

\*Delete a user from DB

\*Update user DB values

\*Back-up DB

\*Reset DB

\*Upload DB

\*Reset Password

\*Give Attendance

\*Check Schedule

\*Attendance Analysis

\*Take Attendance

\*Export attendance Sheet

\*Check Attendance

STUDENT

ADMIN

TEACHER

## Statement of the Problem

The study aimed to propose an Android based smart student system, especially for visually impaired people.

Specifically, it sought to answer the following question:

1. What would be the impact of the system for the student and also for the instructor?
2. How this study helps in this time? Would it helpful?
   1. This study helps to expedite teacher attendance and to prevent the student getting bored.

2.1. It helps the student in this time of pandemic because they no longer need to go to school so that they can attend only they need to do is just log in.

Objectives of the Study

The main objective of the study of Android- Based Smart Student System is to:

Specifically, this study aimed to:

1. To secure the attendance record of the student.
2. To allow teacher to monitor students who are not actively attending the class.
3. To lessen the paper work for the attendance and
4. Also have their real time communication for each other.

## Scope and Limitations of the Study

The Android- Based Smart Student Attendance is focusing in the student have enrolled in the university or a subjects of the school. And also, this study has no limits of number of students attending in the class and the only purpose of this study is only for the attendance of the student in the class.

## Significance of the Study

This study is thought to be significant to the following entities:

**Student and Teacher** The student and Teacher can easily enter and record their daily attendance in a timely manner and have a record when they needed and can be a great help and considered to be useful tools for those student whose schooling in this pandemic time.

**Administrator** The school administrator can easily monitor both students and teachers daily attendance.

**Future Researchers** The future researcher can use out study as their guide of reference for their future researchers that are related to the database management system.

**Definition** **of Terms**

The following terms are operationally defined for a clearer understanding of this study.

**Database** Is a collection of information that is coordinated so that it can easily access manage and update.

**Information System** The information system refers to all manual and computer based application system of the Android- Based Smart Student Attendance.

**Technology** Is the collection of skills, techniques, methods and processes used in the production of goods or services or in the fulfilment objectives.

**Android** is a mobile operating system developed by Google. It is used by several smartphones and tablets.

**Attendance** is the action or state of going regularly to or being present at a place or event.

**Development Approach**

Researcher use Android model for student and teachers who focus on school work such as attendance and educational activities that generally apply to the student and refer to the following

**Schematic Diagram**

Attendance\_log

Student\_id

Course\_id

Present Submitted\_by

Updated\_at

User

Id Type

Username

Email

Password

Submitted\_by

Update\_at

­

Course\_name

Department\_id

Semester class

Lecture\_hours

Submitted\_by

Updated\_at

Course

**v**

Id

Full\_name

Departmen\_Id

Class Submitted\_by

Update\_at

Id

Deparment\_name

Submitted\_by

Update\_at

Students

Department

**Block Diagram of the Study**

Smartphones

Webserver

Application Interface user

Database

Database

**LINK CITED**

**Why attendance matters** *[GreatSchools Staff](https://www.greatschools.org/gk/author/greatschoolsstaff/" \o "Posts by GreatSchools Staff)* | August 11, 2011

<https://www.greatschools.org/gk/articles/school-attendance-issues/>

# Relationship between Class Attendance and Student Performance July 2016

Aalto University School of Business, Runeberginkatu 14-16, 00100 Helsinki, Finland <https://www.sciencedirect.com/science/article/pii/S1877042816309776#aep-article-footnote-id6>