



## **Student Security System By Using Android App**

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### **ABSTRACT:**

Nowadays, Security is important concern for parents, teachers in school because of the uneven circumstances happening. To get the information whether the children has reached school or not, or not being able to give enough time for their children due to busy schedule has always been a vast burden for parents. The suggested application takes care of this condition as it starts watching the children's activity after leaving the house itself. The suggested application is only valid to those children who travel via bus and not for those who travel on foot or stay in hostel. The safety of children is monitored using android application which follows some strict algorithms as Java for basic language. Parents are nervous/worried about their children because of the high ratio of kidnapping. Moreover, parents are having long working hours, so they easily do not have as much period to expend for their children. Moreover, they will be persuaded by kidnapper before they arrive the school. Thus, it is the responsibility for the school to take precaution of their students and they also know in-time and capable to send an aware message to their parents if the students are absent at the school at school start time. This system confirm security of the students by making their parents aware about the several key status about their students like in-time, out-time, everything about their arrival. By using Android technology, it is easy track the student thus enhances the security and safety in particular area. The information about student such as in time and out time from Bus and campus will be recorded to web-based system/application and SMS will be automatically sent to their parents that the student arrived to Bus/Campus securely. SMS will be sent to parents whose children are absent without taking permission. The parents can log into system website and observing the details of their children.

Keywords: java , security, attendance

### **Introduction:**

Today, parents busy in their work like business , job and working activity so they do not watch their children personally by this app parent to put constant watch on their children. These app providing security to student by tracking bus and also watch their day-to-day activity. These app also help to teacher by instantly chat with parents and update the school status instantly. These app give freedom from worry to parents, teacher and student by two-way communication. The propose app takes care of this situation as it start monitoring the children's activity after leaving house itself. As there will be a constant watch in every step, there won't be a question for children to take a wrong step and parents not knowing about it. A smart phone with an android application is used here for providing security for all these questions. Student security system by using android to avoid crime, illegal activities by student and reduce worries among parents. Parents are normally worried about their children's security and keeping in touch with their other school activities. For working parents, it is not easy to keep track of their children and need easy interfaces so that they can check their children's status on a cell phone and be aware of their children's school activities along with their attendance record .

### **Literaturesurvey**

Hla Myo Tun in 2016 they Implementation of Student Safety System Using RFID technology it is easy to track the enhance the security and safety in selected zone the implementation of school security system via RFID to avoid crime, illegal activities by student and reduce worries among parent .

Shekhar verma in 2015 they implemented Arduino based smart RFID security and attendance system with audio acknowledgment RFID system provides an efficient and simple method for identification. There are other method for identification like barcode, optical, character recognition , biometric and smart card but possible area of use is much is larger for RFID system .

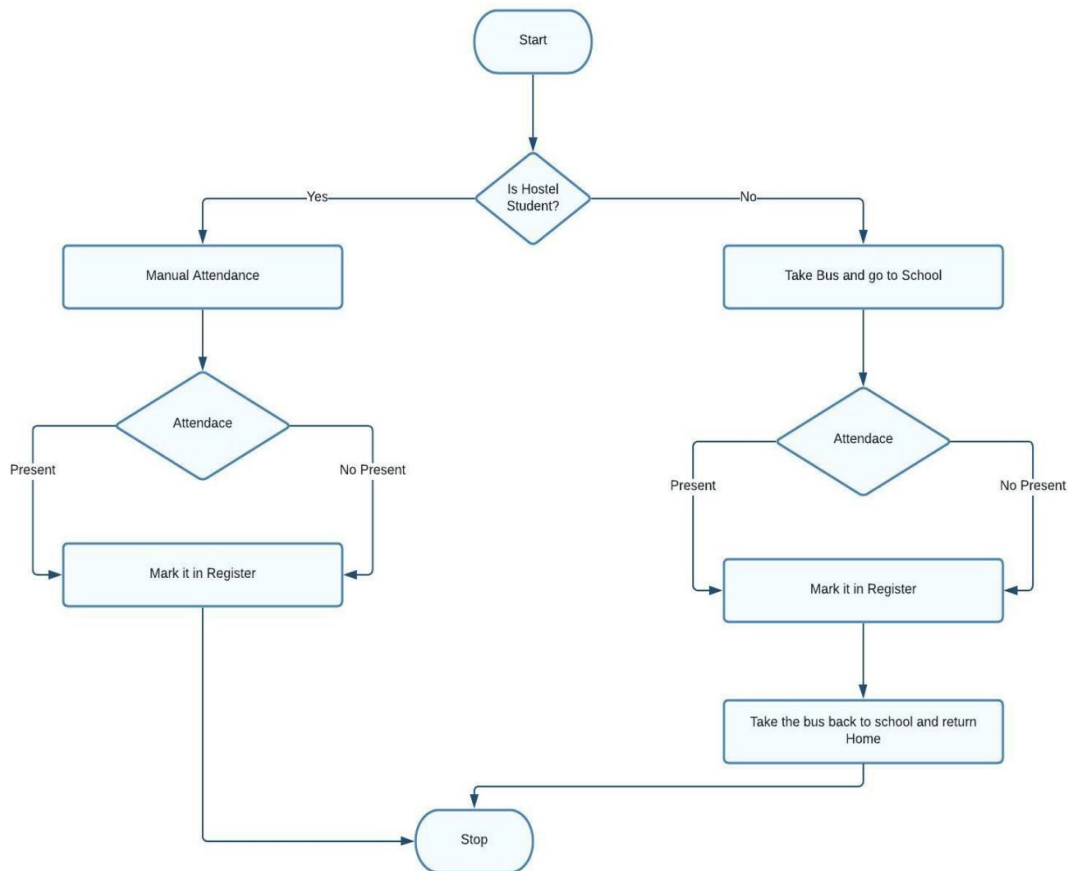
Jyothi Kameswari in 2013 they implemented Web-server based student attendance System using RFID technology, this attendance system software has been developed by using vb.net and database . Each student has RFID tag attach with their student ID card .

Sharath Kumar S in 2019 they implemented School Security System Using Android. This application help the parent to put constant watch to their children teacher can instantly chat with parent and update the student school status instantly.

Asma A1 Belushi in 2015 they Implementation of RFID base System for School children transportation safety Enhancement .

Maya shashi in 2001 they implemented SMS based Kids Tracing and safety system by using RFID and GSM .

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**Flowchart**
**Flowchart:**

In tis flowchart the first is start then go to check the student is hostellite or not if the student is hostelliite then go to the manual attendance then check the attendace is present or not. If the student is present then mark it is register and if the student is not present mark, it is register also and teacher can message to parent and process is stop. If the student is not hostellite then go to take bus and go to the school. If the student is present then mark it is register and if the student is not present mark, it is register also and teacher can message to parent and process is stop. Then for returning the present student take the bus back to school and return home and process is stop.

**Advantages:**

1. Instant notification if student has bunked..
2. No questions of proxy attendance .
3. Insatnant message from teacher to parents and vice-versa .
4. Instant update of marks and attendance.
5. Helpful for hostelite student .

**Disadvantages:**

1. Smart phones are required .
2. Inaccuracy.

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**CONCLUSION:**

With the help of mobile phones , we can increase the security of children and monitor their activity. Teacher can instantly chat with the parents to discuss the day to day activity in the class itself. If the student is unable to be present for some reason, then parents can leave the message to the teacher via the chatbox. Student can only take on the bus which the parent has assigned them. So, the students changing the bus and going somewhere else without the information to parents is not possible. The development of IoT based attendance system involves the process of verifying the students entering the school premises by android mechanism. The system will automatically update the attendance onto the server and simultaneously send a message towards the parent to notify them about the arrival of their children also the assignments for the students can be updated by the teachers to the parents. The further enhancement for student security can be implemented by adding additional properties to the system such as learning management systems and learning record storing which help both the students and parents in further interaction in learning the children's education. The tracking system can be implemented to track students anywhere on the school premises. The use of the reader can also be implemented in the library and canteen in which the parents can monthly pay for the student.

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