

IOT BASED SAFETY GADGET FOR CHILD SAFETY MONITORING AND NOTIFICATION

IDEA 1:

The objective behind the project is to design a child safety system through smart phones that provide the possibility to trace child's location as well as during emergency children can alert parents by saying a child is in an emergency via message. An Android application is developed and installed on parents phone so that their children can be traced, monitored to keep track of their activities and location using GPS. The system is developed using P89V51RD2 microcontroller, GSM, GPS and a panic (alert) button along the RF transmitter and receiver.

IDEA 2:

It is an Android based solution to aid parents to track their children in real time. Nowadays, most mobile phones are equipped with location services capabilities allowing us to get the device's geographic position in real time. The mobile application use the GPS and SMS services found in Android mobile phones. It allows the parent to get their child's location on a real time map and its marked attendance at school. Also display the attendance of particular student to the teacher. The system consists of two sides teacher side and parent side.

IDEA 3:

This project deals with the tracking device which can be worn by the children. This device does not need any expensive technology and it is user friendly. Both educated and uneducated people can use this device effectively. The main purpose of this device is to trace the location of the child in an easy manner. The child can also send alert message along with their location to their parents. The existing devices use Bluetooth and Wi-Fi for communication. As these two technologies cover only a short

range, the communication over the far area is highly impossible. This device uses SMS based technology to overcome this problem. To know the latitude and longitude of the child's location the parents are not in the need of sending any specific code to the device. If they press the key they can receive the SMS. There are two ways to alert the parents and neighbors if the child feels insecure. The alert message is send to the parents or guardian mobile via SMS and the buzzer is activated. It indicates that the child is in danger to the by passer. Hence this paper makes the parents to know the location of their children and their safety.

BENEFITS OF PROPOSED SOLUTIONS:

- Easy Availability and Affordability
- Tracking of missing kids can be made easily
- High Data accuracy
- Guarantees peace of mind for parents

DEMERITS OF PROPOSED SOLUTIONS:

- Gadgets release a form of radiation referred to as Electro Magnetic
- Frequency (EMF), which has been cited as a form of carcinogen—a substance capable of causing cancer in living tissue. High Cost but once it is implemented the expenses can be reduced