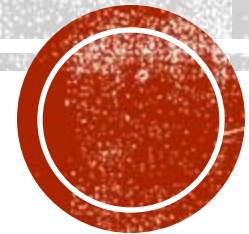


# PROJECT PHASE DESIGN-1

## PROBLEM SOLUTION FIT



**Project Name:** IOT BASED SAFETY GADGET FOR CHILD SAFETY MONITORING

AND NOTIFICATION

**Batch Number:** B5-51ME

## Team members

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# PROJECT SOLUTION FIT

**The objective of this paper is to safeguard the child from threats. In today's world children are less secure and have many issues regarding their security purpose. They have to undergo among various difficult situations. So, for their security and safety purpose government has provided security through rules and regulations to the society. Although there are many existing systems for security purpose need of advanced smart security system is increased.**



**paper describes about safe and secured electronic system for child which comprises of an Arduino controller and buzzer, Node MCU, sim holder, power supply cable, GSM and GPS are used in this project. Now a day the safety measures of children have been reduced in huge number. Thus, the violence against children increasing day by day. We are taking small step towards violence against the kids. Our project mainly focus on sensing the children's Temperature, humidity and GPS location. By monitoring the activities, the state of the child is analyzed. By using GPS, if child reaches the critical state then the latitude and longitude of that particular location is sent to the parents through Blynk Application and the data of child is stored in the authenticated ThingSpeak personal account and will be easy to track the child's activity and can store for few days.**



**The child safety device has a capacity to act as wonderful smart IOT device. This smart IoT device provides parents with the real-time location, Temperature near to the prototype, humidity and GPS location along with Distress alarm buzzer for the child. This helps the surrounding people to locate the child or alert bystanders in acting to find out the child's current location. In this paper we are adding a new feature which can track the child's real time location. Where a notification will be sent to the blynk application and a google link will be sent to the registered mobile number. By clicking on that link, it will be redirecting to the related google maps so that it accesses the maps and get the directions of that child where exactly they located.**



**GSM module we have placed a microchip SIM card which needs message balance for generating the text message to that registered mobile number. We are going to give ThingSpeak authentication code and Blynk application authentication code so that the message and notification will be sent to only the authenticated parents and not to the others**



**After that we need to switch to the new channel and we need to export the information i.e., latitude and longitude to**

**.CSV format. So that it will create an excel sheet. The data and history of the children will be stored and updated in ThingSpeak account so that it will be easy to track the location. A battery will be included in the prototype of capacity 2m Volts. Temperature and humidity will be connected to the Blynk application it will be controlled and**

**rectified by DTH11 sensor. We can be able to know the child's activities in day –to-day life (day, date and time).It will be easy to extract the information of child via ThingSpeak registered account.**



**This paper gives the accurate results to the parents about the child's activities where the tracking is given to the device all the information i.e. temperature and humidity will be redirected to the blynk application. The live details of child is located to the maps in the blynk application. If the child press the buzzer a notification will sent to the blynk registered mobile saying that "I'M IN TROUBLE". and also text message will be sent to the registered mobile number(A link will be shared to the mobile for accessing the google maps).The data of the children will be stored in the authenticated ThingSpeak user account safely and can track the data for few days.**

