

**Ideation Phase**  
**LITERATURE SURVEY ON THE SELECTED PROJECT AND INFORMATION**  
**GATHERING**

Date	14 September 2022
Team ID	PNT2022TMID07810
Project Name	IoT Based safety Gadget for child safety monitoring and notification
Maximum Marks	4 Marks

**Literature Survey:**

**[1] The system is developed using Link-It ONE board**

**Programmed in embedded C and interfaced with temperature,**

**Heartbeat, touch sensors and also GPS, GSM & digital camera**

**Modules. The novelty of the work is that the system**

**Automatically alerts the parent/caretaker by sending SMS, when**

**Immediate attention is required for the child during emergency.**

**Merits: The parameters such as touch, temperature &**

**Heartbeat of the child are used for parametric analysis and**

**Results are plotted for the same.**

**Demerits: To implement the IoT device which ensures the**

**Complete solution for child safety problems.**

## **[2]Title: IOT Based Child safety Monitoring And Notification**

**The purpose of this device is to help the parents to locate their**

**Children with ease. At the moment there are many wearable's**

**In the market which helps to track the daily activity of children**

**And also helps to find the child using Wi-Fi and Bluetooth**

**Services present on the device.**

**Merits: This wearable over other wearable is that it can be**

**Used in any phone and it is not necessary that an expensive**

**Smartphone is required and doesn't want to be very tech savvy**

**Individual to operate.**

**Demerits: As, this device's battery gives short life-time. High**

**Power efficient model will have to be used which can be capable of giving the battery life for a longer time.**

**[3] This paper proposed a model for child safety through smart**

**Phones that provides the option to track the location of their**

**Children as well as in case of emergency children is able to send**

**A quick message and its current location via Short Message**

**Services.**

**Merits: The advantages of smart phones which offers rich**

**Features like Google maps, GPS, SMS etc.**

**Demerits: This system is unable to sense human behavior of**

**Child.**

**[4] Title: Children Location Monitoring on Google Maps Using**

**GPS and GSM.**

**Published in: 2016 IEEE.**

**This paper provides an Android based solution for the**

**Parents to track their children in real time. Different devices are**

**Connected with a single device through channels of internet.**

**The concerned device is connected to server via internet. The**

**Device can be used by parents to track their children in real time**

**Or for women safety. The proposed solution takes the location**

**Services provided by GSM module. It allows the parents to get**

**Their child's current-location via SMS.**

**Merits: A child tracking system using android terminal and**

**Hoc networks.**

**Demerits: This device cannot be used in rural areas.**

**frequency. GSM network consists of mobile station, base station subsystem network and operation subsystem. The GPS module is provided for identifying the location of the child. GPS module receives the signals from satellites. The latitude and longitude of the location can be identified by the GPS module. The device sends the monitored parameters data such as temperature and pulse rate to cloud. If any abnormalities occurs in temperature or pulse rate readings, a SMS and call triggers to the parent/caretaker mobile phone immediately and also updated to the mobile app only for the registries mobile no. We can use mobile application, cloud and database as the back end of storing and retrieving information and also a device for monitoring.**

