**Ideation Phase**

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

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| Date | 14 September 2022 |
| Team ID | PNT2022TMID45285 |
| 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.**

