

SNS COLLEGE OF TECHNOLOGY

IOT BASED SAFETY GADGET FOR CHILD SAFETY MONITORING AND NOTIFICATION

LITERATURE SURVEY

INTRODUCTION:

Child safety and tracking is a major concern as the more number of crimes on children are reported nowadays. With this motivation, a smart IoT device for child safety and tracking is developed to help the parents to locate and monitor their children. The system is developed using Link I 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. The parameters such as touch, temperature & heartbeat of the child are used for parametric analysis and results are plotted for the same. The above system ensures the safety and tracking of children.

LITERATURE SURVEY 1:

TITLE AND AUTHOR:

Smart IOT Device for Child Safety and Tracking by M Nandini Priyanka, S Murugan, K N H Srinivas, T D S Sarveswararao, E Kusuma Kuma in the year 2019

SENSORS USED:

Temperature sensor, pulse sensor, touch sensor, serial camera module, GSM module and GPS modules

PROBLEM STATEMENT:

Child and women safety is a challenging problem nowadays due to antisocial elements in the society. The crime rate is day by day increasing.

PROS:

- Link It On board is used here for monitoring.

CONS:

- It is cost effective
- Hard to implement

LITERATURE SURVEY 2:

TITLE AND AUTHOR:

Child safety wearable device by Akash Moodbidri,
Hamid shahnasser in 2017

TECHNIQUE USED:

Bluetooth and wifi

PROBLEM STATEMENT:

Nowadays child kidnapping crimes are rapidly increasing so this device is to help the parents to locate their children with ease case.

PROS:

- This wearable over other wearable is that it can be used in any phone no need for expensive smart phones
- User friendly device

CONS:

- Device's battery gives short life time

LITERATURE SURVEY 3:

TITLE AND AUTHOR:

Child safety wearable device using raspberry pi by Arun Francis G, Janani I, Kaviya S and Ramya devi in 2020

TECHNIQUES USED:

Raspberry pi

PROBLEM STATEMENT:

Child and women safety is a challenging problem nowadays due to antisocial elements in the society. The crime rate is day by day increasing.

PROS:

- It assist parents to monitor children remotely
- In emergency situations notifications will send to parents

CONS:

- This device is not robust enough and does not contain sufficient functions to operate like a mobile phone

LITERATURE SURVEY 4: