Ideation Phase

Date	08 SEPTEMBER 2022
Team ID	PNT2022TMID12654
Project Name	IOT BASED SAFETY GADGET FOR CHILD SAFETY MONITORING & NOTIFICATION
Maximum Marks	2Marks

TECHNOLOGY   :   INTERNET OF THINGS

DOMAIN   :   SAFETY

PROBLEM STATEMENT :Child Safety Monitoring & Notification

Software Required:

Python IDLE

System Required:

RAM-Minimum 4GB Processor-Min. Configuration OS-Windows/Linux/MAC

Child tracker helps the parents in continuously monitoring the child's location. They can simply leave their children in school or parks and create a geofence around the particular location. By continuously checking the child's location notifications will be generated if the child crosses the geofence. Notifications will be sent according to the child's location to their parents or caretakers. The entire location data will be stored in the database.

Nowadays, crime rate associated with children keeps increasing due to which draws peoples' attention regarding child safety. This research is conducted to propose a child security smart band utilizing IoT technology. Online questionnaire and semi-structured interview are methodologies used to collect data. The online questionnaire gains feedbacks by sending questions electronically, where answers need to be submitted online. In the semi structured interview, researcher meets and asks respondents some predetermined questions while other being asked are not planned in advanced. Through information obtained, a smart band have been proposed to monitor the safety of children. By this, parents know what is happening remotely and can take actions if something goes wrong.

The safety device protects individuals from potential harms and dangers. A research done by [1] proposed the child safety wearable device using raspberry pi 3. The raspberry pi 3 gathers data from pi camera, pulse sensor and sound sensors. Then, send collected data to parents' smartphones by SMS using GSM shield. Images captured from pi camera and detect children location and send message to parents.

Advantages:

These benefits include stress relief, learning to understand cues from your infant, and increased self-esteem when it comes to being a parent.

Disadvantages:

If you get a monitor that links to your phone and uses wifi, it can get hacked. The hackers can change the image you see on your phone or talk to your child—saying some really scary effed up stuff.