Ideation Phase
Brainstorm & Idea Prioritization Template

Date	17 September 2022
Team ID	PNT2022TMID46169
Project Name	IOT BASED SAFETY GADGET FOR CHILD MONITORING AND NOTIFICATION
Maximum Marks	4 Marks

Step-1: Team Gathering, Collaboration and Select the Problem Statement

Step-2: Brainstorm, Idea Listing and Grouping

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Brainstorm

Write down any ideas that come to mind that address your problem statement.

⏱ 10 minutes

R.MADHAN DEEPAK

- Now-a-days attacks on children are increasing at an unprecedented rate where they are not allowed to contact the family members
- The key idea planned in this research work is an advanced technology that offers "Smart Child Safety" for the children.
- Therefore, the awareness of this method is to send an SMS from children's wear device to their parent or guardian
- Thus, the proposed method will be highly effective when compared to the other existing techniques
- In the existing structure, there is no monitoring method for child, it should create many problems for them and the no protection mechanism to protect the child from the misbehavior
- In addition, there is no aware device for the child's protection

V.C PRAVEEN

- Therefore, the wearable device implemented in this project will be effectively communicating with the parent via SMS through GSM
- This ensures that there is a secure communication. Also, customization of the wearable can be possible as per the needs by reprogramming the system
- In future, the wearable devices can be extended to built on the SOC platform that helps to work more efficiently comparing with now
- The wearable device acquires collection of data from the various modules that are connected to it
- The latitude and longitude coordinates received are stored in the cloud Database which can be saved for future references
- The parent can find out the location of the child by alarm sound in a very loud alarm using this wearable device.

I. STEPHEN HEART

- This project recommends a new tangled technology for child protection by using GSM so that the children will not feel abandoned while facing such social problems
- The key idea planned in this research work is an advanced technology
- Moreover, it doesn't need any manual operation.
- The problems overdrawed here using Arduino UNO, GSM, sensors, MEMS, temperature and panic button by using IOT
- The secondary measure implemented was using a bright SOS Light and distress alarm buzzer present on the wearable device which when activated by the parents via SMS
- In such case, Heartbeat Sensor track the best rate for children and sends the emergency message by using the GSM to save contacts.

DHARMARAJ

- This Bluetooth module is a low power module. The major disadvantage for this important band is that it employs Bluetooth as the way of communication in between parent and the child
- text should display the SOS signal brightly and sound an alarm which a bystander can easily spot as a sign of distress
- This utilizes a Arduino system along with a Sensor system and Bluetooth 4.1 module
- The project focuses on a smart wearable device used for children. The main benefit of this wearable compared to other wearable is
- The main idea of this wearable safety system is to aid the parents in finding their child very easily.
- Hence this paper aims at providing parents with a sense of security for their child in today's time

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Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

⏱ 20 minutes

- 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 LinkIt ONE board programmed in embedded C
- Interfaced with temperature, heartbeat, touch sensors and also GPS, GSM & digital camera modules

Step-3: Idea Prioritization

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Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

🕐 **20 minutes**

Importance

If each of these tasks could get done without any difficulty or cost, which would have the most positive impact?

Now-a-days attacks on children are increasing at an unprecedented rate and the victims are in dangerous conditions, where they are not allowed to contact the family members

In the prevailing structure, there is no monitoring method for child, it should create many problems for them and the no protection mechanism to protect the child from the misbehavior

BLUETOOTH

GPRS

GSM

TEMPERATURE SENSOR

HEART BEAT SENSOR

The project focuses on a smart wearable device used for children.
The main benefit of this wearable compared to other wearable is

The main idea of this wearable safety system is to aid the parents in finding their child very easily.

Hence this paper aims at providing parents with a sense of security for their child in today's time

The key idea planned in this research work is an advanced technology that offers "Smart Child Safety" for the children

Moreover, it doesn't need any manual operation

Therefore, the wearable device implemented in this project will be effectively communicating with the parent via SMS through GSM

The parent can find out the location of the child by alarm sound in a very loud alarm using this wearable device.

Feasibility

Regardless of their importance, which tasks are more feasible than others? (Cost, time, effort, complexity, etc.)