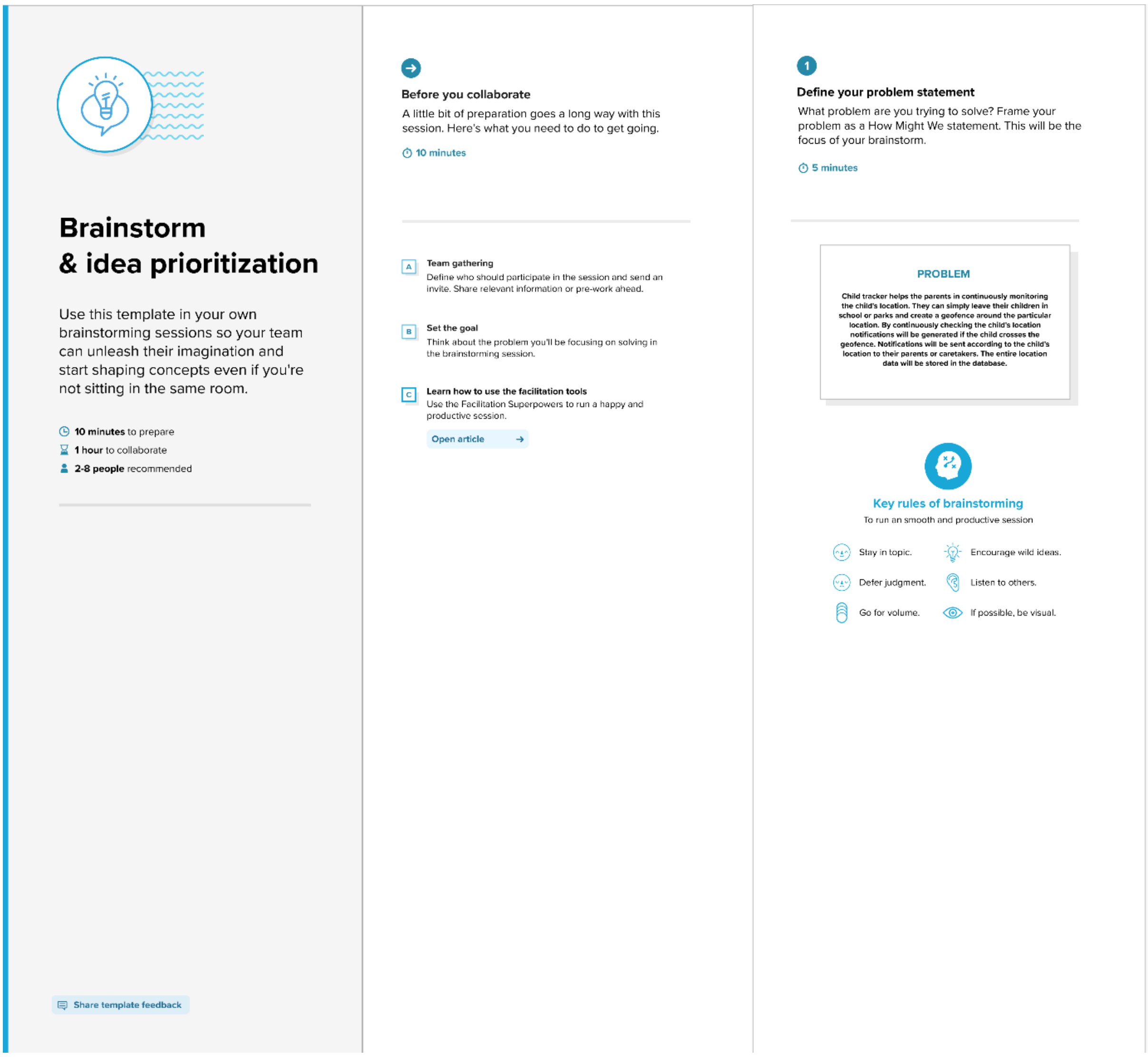
Ideation Phase
Brainstorm & Idea Prioritization Template

Date	02 October 2022
Team ID	PNT2022TMID39365
Project Name	IoT Based Safety Gadget for Child Safety Monitoring and Notification
Maximum Marks	4 Marks

Reference:

https://app.mural.co/invitation/mural/locationteam5203/1663560306275?sender=u1750ef25ac0509b203d14164&key=00156d83-4eac-42fc-8eda-b2163c25ad1a

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



Brainstorm & idea prioritization

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

10 minutes to prepare
1 hour to collaborate
2-8 people recommended

Share template feedback

Before you collaborate

A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

10 minutes

A **Team gathering**
Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.

B **Set the goal**
Think about the problem you'll be focusing on solving in the brainstorming session.

C **Learn how to use the facilitation tools**
Use the Facilitation Superpowers to run a happy and productive session.

Open article →

1 **Define your problem statement**

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

5 minutes

PROBLEM

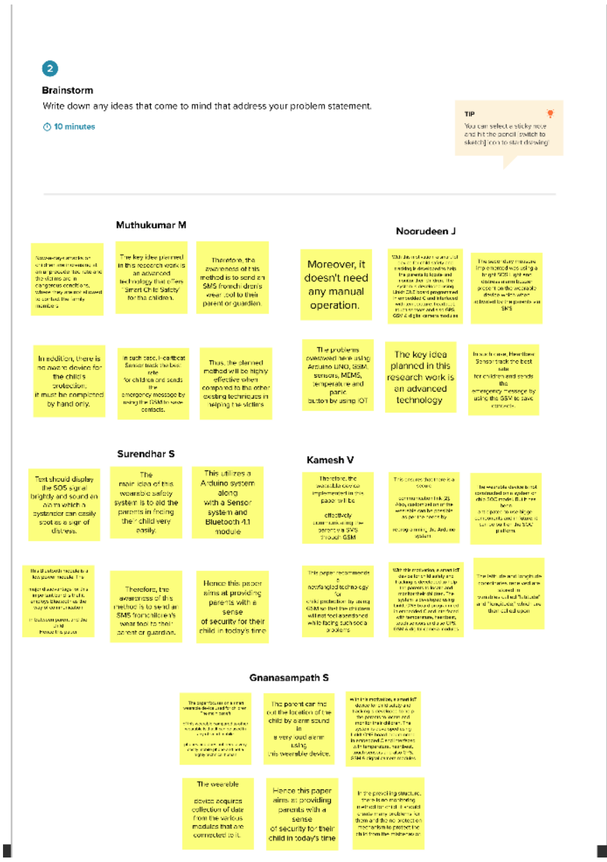
Child tracker helps the parents in continuously monitoring the child's location. They can simply leave their children in school or parks and create a geofence around the particular location. By continuously checking the child's location notifications will be generated if the child crosses the geofence. 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.

Key rules of brainstorming

To run an smooth and productive session

Stay in topic.
Encourage wild ideas.
Defer judgment.
Listen to others.
Go for volume.
If possible, be visual.

Step-2: Brainstorm, Idea Listing and Grouping



2

Brainstorm

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

10 minutes

TIP

You can select a sticky note and hit the pencil [switch to sketch] icon to start drawing!

Muthukumar M

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 fromchildren's wear tool to their parent or guardian.

In addition, there is no aware device for the child's protection, it must be completed by hand only.

In such case, Heartbeat Sensor track the best rate for children and sends the emergency message by using the GSM to save contacts.

Thus, the planned method will be highly effective when compared to the other existing techniques in helping the victims

Noorudeen J

Moreover, it doesn't need any manual operation.

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

The problems overawed here using Arduino UNO, GSM, sensors, MEMS, temperature and panic button by using IOT

The key idea planned in this research work is an advanced technology

In such case, Heartbeat Sensor track the best rate for children and sends the emergency message by using the GSM to save contacts.

Surendhar S

Text should display the SOS signal brightly and sound an alarm which a bystander can easily spot as a sign of distress.

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

This utilizes a Arduino system along with a Sensor system and Bluetooth 4.1 module

Therefore, the awareness of this method is to send an SMS fromchilren's wear tool to their parent or guardian.

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

Kamesh V

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

This paper recommends a newfangled technology for child protection by using GSM so that the children will not feel abandoned while facing such social problems

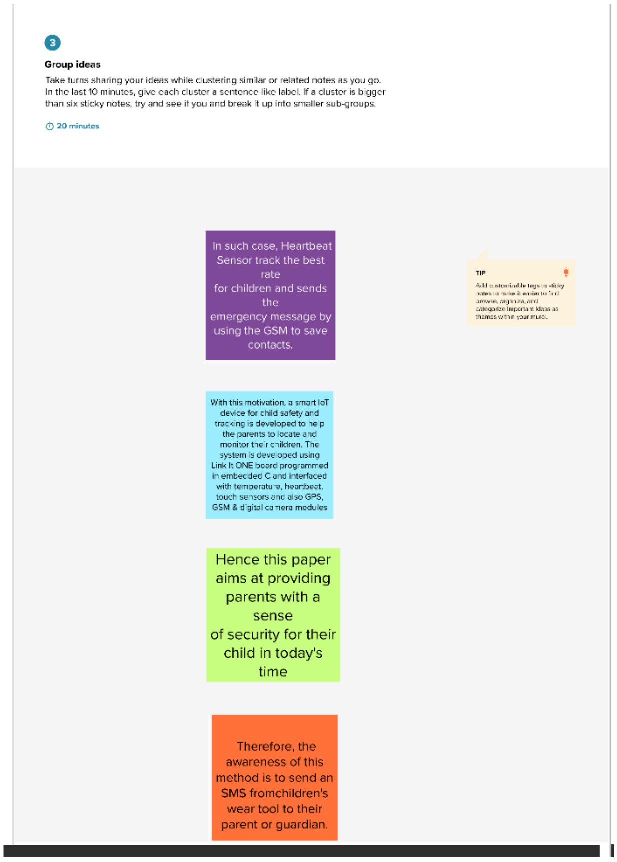
The latitude and longitude coordinates received are stored in variables called "latitude" and "longitude" which are then called upon

Gnanasampath S

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

The wearable device acquires collection of data from the various modules that are connected to it.

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



3

Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. In the last 10 minutes, 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

TIP

Add customizable tags to sticky notes to make it easier to find, browse, organize, and categorize important ideas as themes within your mural.

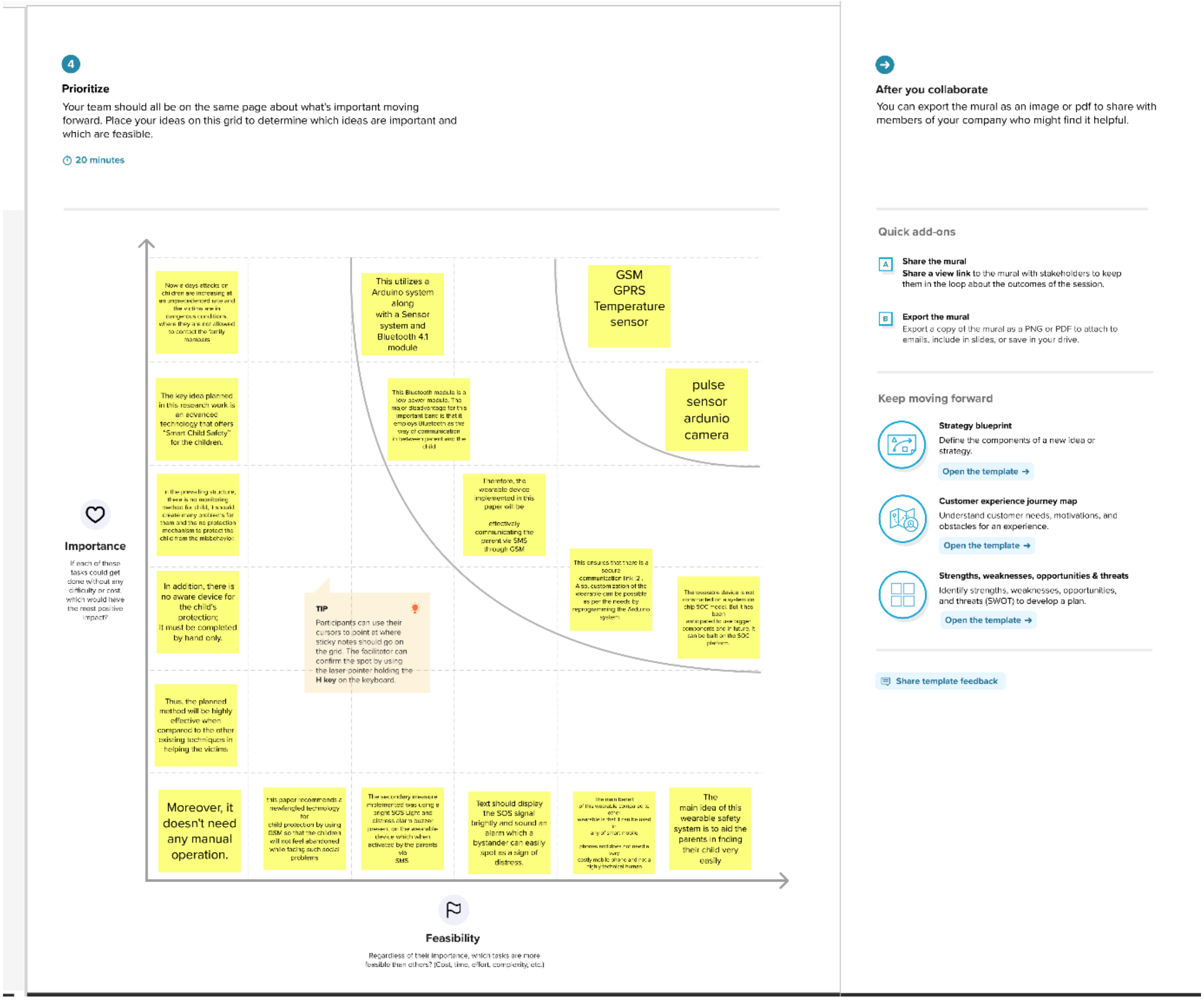
In such case, Heartbeat Sensor track the best rate for children and sends the emergency message by using the GSM to save contacts.

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

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

Therefore, the awareness of this method is to send an SMS fromchildren's wear tool to their parent or guardian.

Step-3: Idea Prioritization



4

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

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

This utilizes a Arduino system along with a Sensor system and Bluetooth 4.1 module

GSM GPRS Temperature sensor

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

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

pulse sensor ardunio camera

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

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

Importance

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

In addition, there is no aware device for the child's protection; it must be completed by hand only.

TIP

Participants can use their cursors to point at where sticky notes should go on the grid. The facilitator can confirm the spot by using the laser pointer holding the **H key** on the keyboard.

This ensures that there is a secure communication link [2]. Also, customization of the wearable can be possible as per the needs by reprogramming the Arduino system.

The wearable device is not constructed on a system on chip SOC model. But it has been anticipated to use bigger components and in future, it can be built on the SOC platform.

Thus, the planned method will be highly effective when compared to the other existing techniques in helping the victims

Moreover, it doesn't need any manual operation.

this paper recommends a newfangled technology for child protection by using GSM so that the children will not feel abandoned while facing such social problems

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

Text should display the SOS signal brightly and sound an alarm which a bystander can easily spot as a sign of distress.

The main benefit of this wearable compared to other wearable is that it can be used in any of smart mobile phones and does not need a very costly mobile phone and not a highly technical human

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

Feasibility

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

After you collaborate

You can export the mural as an image or pdf to share with members of your company who might find it helpful.

Quick add-ons

A **Share the mural**
Share a view link to the mural with stakeholders to keep them in the loop about the outcomes of the session.

B **Export the mural**
Export a copy of the mural as a PNG or PDF to attach to emails, include in slides, or save in your drive.

Keep moving forward

Strategy blueprint
Define the components of a new idea or strategy.
Open the template →

Customer experience journey map
Understand customer needs, motivations, and obstacles for an experience.
Open the template →

Strengths, weaknesses, opportunities & threats
Identify strengths, weaknesses, opportunities, and threats (SWOT) to develop a plan.
Open the template →

Share template feedback