

## Ideation Phase

### Brainstorm & Idea Prioritization Template


|               |                                                                      |
|---------------|----------------------------------------------------------------------|
| Date          | 19 September 2022                                                    |
| Team ID       | PNT2022TMID19925                                                     |
| Project Name  | IOT based safety gadget for child safety monitoring and notification |
| Maximum Marks | 4 Marks                                                              |

#### Brainstorm & Idea Prioritization Template:

Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions.

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.

#### 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

**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

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**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.

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**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

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**PROBLEM**

The objective of this project is to safeguard the child from threads. Now a days the safety measures of children has been reduced in huge number. Thus the violence against children increasing day by day. Not only kids even women are also abused both physically and mentally. We are taking small step towards violence against the kids. Our project mainly focus on sensing the children's Temperature and Heartbeat. By monitoring the activities the state of the child is analyzed. By using GSM, if child reaches the critical state then the latitude and longitude of that particular location is sent as an alert message to the parents

**Key rules of brainstorming**  
To run a smooth and productive session

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

## 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

#### TIP

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

| Mohamed Arsath                                                                                                                                                                                    | Mohamed Aadhil Shath                                                                                                                                                            | Esakki Raj                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Mohamed Ifthihar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>battery backup when low charge so location can be sent even device is low charge and can't function</p> <p>panic button for emergency</p> <p>voice recognition access for child to operate</p> | <p>pulse detection for monitoring if child in emergency situation by the pulse in pulse</p> <p>monitor child daily routine with schedules</p> <p>sleep time alert for child</p> | <p>parents can call device even without child attending the call for emergency</p> <p>A forward feature to block any strangers or unknown numbers from calling your child.</p> <p>Implementing SOS system in child device.</p> <p>fast charging</p> <p>using nylon material for straps for skin sensitivity</p> <p>stainless steel is used as a material so easy to be a wearable one</p> <p>child helpline intimation</p> <p>health checkup of child with heartbeat detection</p> <p>software upgrades for device efficiency</p> | <p>panic button for emergency</p> <p>monitor child daily routine with schedules</p> <p>monitoring device whether it is working properly</p> <p>blood pressure for monitoring if child in emergency situation by value in blood pressure</p> <p>person voice recorded who are interacting with child using voice recognition</p> <p>utilizing the smartwatch's GPS chip, the accompanying smartphone app can set up geo-fenced safe zones</p> <p>utilizing the smartwatch's GPS chip, the accompanying smartphone app can set up geo-fenced safe zones</p> <p>Anker Astro E1 6700 use this battery to high capacity and low weight</p> <p>heat resistant</p> <p>notifying while removal of watch</p> <p>wireless charging</p> <p>Get feedback from parents and resolve queries</p> <p>voice recognition with child voice so others except parents and child can't access the device</p> |

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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 can break it up into smaller sub-groups.

20 minutes

#### Data gathering and preparation

Monitor child daily routine with schedules

checks whether the device in proper working condition

person voice recorded who are interacting with child using voice recognition

#### Connection and emergency facility

GSM technology used for stable internet

Implementing SOS system in child device.

Utilizing the smartwatch's GPS chip, the accompanying smartphone app can set up geo-fenced safe zones

#### Work and Deliverables

software upgrades for device efficiency

Get feedback from parents and resolve queries

user friendly interface

## 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

