

## Ideation Phase

### Brainstorm & Idea Prioritization Template

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|---------------|--|
| Date          | 19 September 2022  |
| Team ID       | PNT2022TMID17380   |
| Project Name  | IOT BASED SAFETY GADGET FOR<br>CHILD SAFETY MONITORING AND<br>NOTIFICATION |
| Maximum Marks | 4 Marks  |
| TEAM LEADER   | BALAKUMAR P  |
| TEAM MEMBERS  | DHINESHKUMAR P<br>SRISIVA M<br>ABISEK P<br>HARSITA K                       |

### 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.

Reference: <https://www.mural.co/templates/empathy-map-canvas>



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

what if child safety gadget disconnects or theft?

Key rules 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.

2 Brainstorm

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

10 minutes





## 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

### Based on location:

We can only view the last active location of the child.

To know the children's location if they are missing

issue occurring in location not marked or mismatched to safety location

the issue is if the GPS data doesn't push to dashboard due to delay in satellite communication it creates big problem

### Based on safety

the issue is when child crosses some safety location marked by parents, it wants to send message to parents, if location not mapped correctly problem occurs

In order to get the information about child safety works smoothly & accurately.

it is important because the message has to be sent to parents when child goes to danger area.

### based on health

The device materials can emit hazardous rays

Child's body temperature may affect by device temperature

Device heat may affect the child

to know the health information of the child

it affects the safety of the child and creates panic to parents

the issue is the parent doesn't know panic situation of child

If the communication between child and parents where disconnected

### Based on communication

We concentrate on the GPS and other communication devices in IoT

the issue will occur if the child goes over the geo fence or communication is not strong.

the boundaries of the problem is delay in communication.

the issue is if the GPS data doesn't push to dashboard due to delay in satellite communication it creates big problem

### based on data

Data & information are not able to read/write.

to reduce interrupt to get correct information of the child

When the database crashes.



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

