# Ideation Phase
# Brainstorm & Idea Prioritization Template

| Date | 19 September 2022 |
|---|---|
| Team ID | PNT2022TMID24986 |
| Project Name | IOT based safety gadget for child safety monitoring and notification |
| Maximum Marks | 4 Marks |

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



**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 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

### Priya

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

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

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

issue occuring in data doesn't reach to parents

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

when the child's geofence not works due to humidity,..

the boundaries of the problem is delay in communication.

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

the boundaries and the correct mapping to the location.

this can be overcome by forming Zig bee and connect the deices to zig bee.

it affects the child's future.

issue occuring in location not marked or mismatched to safety location

the boundary of the problem is battery.

it is important because for the child's safety

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

### Vijitha

The device materials can vomit hazardous rays

The child's current activity cannot be notified

Parents have fear about the child

If the communication between child and parents where disconnected

The health of the child to be considered

The child's gps not work we can't identify the place of the child

We concentrate on the gps and other communication devices in iot

The child location only tracked by gps

The issue occuring in pointing the location of child

The issue was the location was not find

If the tracking is lost the childs place is unidentified. So,we focus on other way.

The rays causes health issues

### Sneha

does they get an incorrect information

may be the child informations are inerrupted

body temperature, pulse rate may be incorrect

Child's body temperature may affect bydevice temperature

To know the childrens location if they are missing

to know the health information of the child

to reduce interrupt to get correct information of the child

### Sahayarani

The performance will be difficult to maintain.

Data & information are not able to read/write.

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

When child is unsafe.

The parents will be mentally affected and child will be lost.

Surrounding around the child.

When the database crashes.

Where the place cannot recharge the device.

To ensure that the child is safe & sound.

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

**Step-3: Idea Prioritization**

**③**

## 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**

### Based on location:

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

To know the childrens location if they are missing

issue occuring in location not marked or mismatched to safety location

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

### based on safety

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

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

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

### based on health

The device materials can vomit hazardous rays

Child's body temperature may affect bydevice temperature

Device heat may affect the child

to know the health information of the child

it affects the safety of the child and create the 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

Data & information are not able to read/write.

### based on data

to reduce interrupt to get correct information of the child

When the database crashes.

We concentrate on the gps and other communication devices in iot

the issue will occur if the child gone 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 pushed to dashboard due to delay in satellite communication it creates big problem
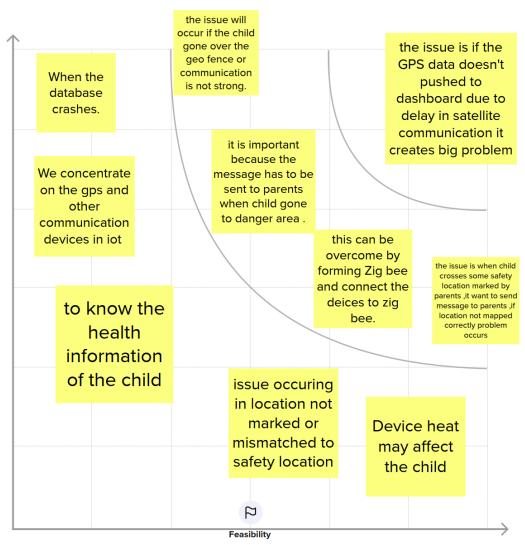
## Prioritize

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**

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🚩

**Feasibility**

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