

## 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

The graphic consists of two overlapping white cards on a light gray background. The top card is titled 'PROBLEM' in blue and contains the text 'what if child safety gadget disconnects or theft?'. The bottom card is titled 'Key rules of brainstorming' in blue, with a subtitle 'To run an smooth and productive session'. It features a blue icon of a head with a lightbulb and lists six rules, each with a corresponding icon: 'Stay in topic.' (mouth), 'Defer judgment.' (mouth), 'Go for volume.' (megaphone), 'Encourage wild ideas.' (lightbulb), 'Listen to others.' (ear), and 'If possible, be visual.' (eye).

**PROBLEM**

what if child safety gadget disconnects or theft?

**Key rules of brainstorming**  
To run an 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

2

### Brainstorm

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

🕒 10 minutes



### 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 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 child'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 the panic to parents

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

If the communication between child and parents is 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 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

## 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

