# Ideation Phase Brainstorm & Idea Prioritization Template

Date	19 September 2022
Team ID	PNT2022TMID17569
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.

Reference: <a href="https://www.mural.co/templates/empathy-map-canvas">https://www.mural.co/templates/empathy-map-canvas</a>



### 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**

what if child safety gadget disconnects or theft?





#### **Brainstorm**

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

10 minutes

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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 push to dashboard due to delay in satellite communication it creates big problem

issue occurring in data doesn't reach to parents

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

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

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.

communication between child and parents where disconnected

If the

the boundaries and the correct mapping to the location.

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

The child

location only

tracked by

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

issue occuring

in location not

marked or

mismatched to

safety location

it affects the child's future.

the

boundary of

the problem

is battery.

gps
The iss

it is important because for the child's safety

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

The issue was the location was not find

The rays causes health issues

The device materials can vomit hazardous rays
The child's current activity cannot be notified

Parents have fear about the child

The health of the child to be considered

We concentrate on the gps and other communication devices in iot

The issue occuring in pointing the location of child

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

does they get an incorrect information

may be the child information's are interrupted

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

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 childis safe & sound.

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



#### **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.

issue occuring in location not marked or mismatched to safety location

To know the childrens location if they are missing

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

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

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

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

based on health
The device

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

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.

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

If the communication between child and parents where disconnected

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

Based on communication

We concentrate on the gps and other communication devices in iot

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 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

