


Ideation Phase

Brainstorm & Idea Prioritization Template

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| Date | 19 September 2022 |
| Team ID | PNT2022TMID30282 |
| Project Name | IOT Based Safety Gadget For Child Safety Monitoring & Notification |
| Maximum Marks | 4 Marks |

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

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

To avoid the child theft and reduce parents insecurity on their child, We as a team proposing a solution implementing an autonomous real time monitoring system for prevent children before being attacked. In the system, the sensors like temperature sensor pulse rate detection sensor Mental detection sensor and location value from GPS are used to detect the children status



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

TIP

You can select a sticky note and hit the pencil icon to start drawing!

Monish R

In this project, we are going to prevent the child from movement of the baby Stroller

Whenever the parent lets go of the stroller, the front wheel locks preventing it from rolling away

once the parent touches the handlebar, the lock on the front wheel disengages

The Stroller is free to move. To indicate the stroller is free to move, LED strips will be active

SomaSurya S

The device has IoT monitoring and a GSM module that allows the child to be monitored at all times

It also has numerous sensors that are connected to a CPU and are used to detect exact signals such as heart rate, temperature, other dangers and alert the parents

In the event of power outage, the wearable serves as backup on the device there is an additional panic button

The purpose of this button is to notify parents and the police of a child's current location whenever they are in a perilous scenario

NaveenKumar A

The basic mechanism of this system involves monitoring the environment through sensors

Nodes, acquiring real-time data and transmitting this data to a cloud server

The data can be accessed by users through a web-based interface present on this cloud server

The major thing is to access anytime, anywhere and any devices via cloud surface

VigneshKumar S

An IoT device is proposed that can be wearable and connected with application.

Parents can create a Geo-fence from the child's location; the device contains a GPS module so that parents or guardians can continuously monitor the child's location

If they cross the Geo-fence, the notification will be sent to parents or guardians

If an emergency situation may occur to the child, so that they can send an alert or message to parents or guardians.

3

Group Ideas

Take turns sharing your ideas while clustering similar or related notes as you go. In the last 10 minutes, 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

Using Internet of Things

The device has IoT monitoring and a GSM module that allows the child to be monitored at all times

It also has numerous sensors that are connected to a CPU and are used to detect exact signals such as heart rate, temperature, other dangers and alert the parents

TIP

Add customizable tags to sticky notes to make it easier to find, browse, organize, and categorize important ideas as themes within your mural.

Using Web Application

The purpose of this button is to notify parents and the police of a child's current location whenever they are in a perilous scenario

The basic mechanism of this system involves monitoring the environment through sensors

An IoT device is proposed that can be wearable and connected with application.

If an emergency situation may occur to the child, so that they can send an alert or message to parents or guardians.

If they cross the Geo-fence, the notification will be sent to parents or guardians

If an emergency situation may occur to the child, so that they can send an alert or message to parents or guardians.

The Stroller is free to move. To indicate the stroller is free to move, LED strips will be active

Using Cloud Technology

Nodes, acquiring real-time data and transmitting this data to a cloud server

The data can be accessed by users through a web-based interface present on this cloud server

The major thing is to access anytime, anywhere and any devices via cloud surface

Step-3: Idea Prioritization

4

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



Importance

If each of these tasks could get done without any difficulty or cost, which would have the most positive impact?

| | | | | | |
|--|---|---|--|---|---|
| | | | The basic mechanism of this system involves monitoring the environment through sensor | | It also has numerous sensors that are connected to a CPU and are used to detect exact signals such as heart rate, temperature other dangers and alert the parents |
| | | The device has IoT monitoring and a GSM module that allows the child to be monitored at all times | | The purpose of this button is to notify parents and the police of a child's current location whenever they are in perilous scenario | |
| | | | An IoT device is proposed that can be wearable and connected with application. | | The major thing is to access anytime, anywhere and any devices via cloud surface |
| | | The Stroller Is free to move.To indicate the stroller Is free to move,LED strips will be active | | In this project, we are going to prevent the child from movement of the baby Stroller | |
| | TIP Participants can use their cursors to point at where sticky notes should go on the grid. The facilitator can confirm the spot by using the laser pointer holding the H key on the keyboard. | | Parents can create a Geo-fence from the child location the device contains GPS module so that parents or guardians can continuously monitor child's location | | If any emergency situation may occur to child, so that they can sent alert or message to parents or guardians. |
| | | | | | |



Feasibility

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