


Ideation Phase

Brainstorm & Idea Prioritization Template

Date	27 September 2022
Team ID	PNT2022TMID45346
Project Name	Project - Smart Waste Management System For Metropolitan Cities
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization:

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

PROBLEM

People need an IOT based garbage bin which will notify the nearby garbage collector to collect it.

Key rules of brainstorming

To run a 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

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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!

Salman Fardeen

Use ultrasonic sensors to detect how much is filled

Use force sensor to calculate weight of the garbage can

Initialize a unique key to every bin to locate each of them

assign each bin to the respective geo-location

Sivaraman

use solar panel for power supply

use removable power cable

water proof bin to avoid unnecessary water enter bin

use geo-location to track location

Shameer Ahamed

use message API to notify garbage collectors

use map API to assign trucks to collect garbage

provide live status of bin

create bin with insulators to avoid electric shock(If happen)

Ramanan

use raspberry pie for computation

directly send notification to truck drivers

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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

TIP

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

Salman Fardeen:

- Use ultrasonic sensors to detect how much is filled.
- Use force sensor to calculate weight of the garbage can.
- Initialize a unique key to every bin to locate each of them
- assign each bin to the respective geo-location

Sivaraman:

- use solar panel for power supply
- use removable power cable
- water proof bin to avoid unnecessary water enter bin
- use geolocation to track location

Shameer Ahamed:

- use message API to notify Garbage collectors
- assign use map API to trucks to collect garbage
- provide live status of bin
- create bin with insulators to avoid electric shock(If happen)

Ramanan:

- Use raspberry pie for computation
- directly send notification to truck drivers

Step-3: Idea Prioritization

