


Ideation Phase Brainstorm & Idea Prioritization

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| Date | 19 September 2022 |
| Team ID | PNT2022TMID34106 |
| Project Name | IoT based Smart Waste Managemnt System for Meteropolitan Cities |
| Maximum Marks | 4 Marks |




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

Template




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

[Share template feedback](#)



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.

[Open article](#) →




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


Poor waste management contributes to climate change and air pollution, and directly affects many ecosystems and species.





Key rules of brainstorming


To run a 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 with the pencil button to making it to be sticky!

Arjitha.S

Machine sensors can be used to detect the level of waste in the bin and send a message to the user.

IR sensors can be used to detect the level of waste in the bin and send a message to the user.

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Anusha.A

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Anusha.M

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Abina.S

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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

SENSOR

IR sensors embedded on dustbins for waste level detection

The sensors are connected with the controller and the waste level is continuously recorded in the cloud.

IR sensor to sense the garbage level when it reaches the threshold

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FUTURE SCOPES

disposal through incineration, treatment, or land burial.

Turning waste into energy

A dustbin made of plastic or metal which can hold up all the components

Improved in data collection

A dustbin made of plastic or metal which can hold up all the components

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RECYCLE

Reuse or redistribution of unwanted, surplus materials

pollution prevention and source reduction

IoT and Wi-Fi is also introduced based on reduce, reuse and recycle concept.

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TECHNIQUE

Autoclean technology is used to reuse the wastes of raw materials by extracting plastic and cellulose in fiber

Some projects smart garbage management system using IR sensor and ultrasonic sensor for waste reduction

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SERVO MOTOR HELPS THE USER TO AUTOMATICALLY OPEN UP THE BIN

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



After you collaborate

You can export the mural as an image or pdf to share with members of your company who might find it helpful.

Quick add-ons

- A Share the mural**
Share a view link to the mural with stakeholders to keep them in the loop about the outcomes of the session.
- B Export the mural**
Export a copy of the mural as a PNG or PDF to attach to emails, include in slides, or save in your drive.

Keep moving forward

- Strategy blueprint**
Define the components of a new idea or strategy.
[Open the template →](#)
- Customer experience journey map**
Understand customer needs, motivations, and obstacles for an experience.
[Open the template →](#)
- Strengths, weaknesses, opportunities & threats**
Identify strengths, weaknesses, opportunities, and threats (SWOT) to develop a plan.
[Open the template →](#)

[Share template feedback](#)