

Date	03 november 2022
Team ID	PNT2022TMID26725
Project Name	Smart Waste Management System For Metropolitan Cities
Maximum Marks	4 Marks

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.

<https://app.mural.co/t/naveenkuamr3575/m/naveenkuamr3575/1667389381748/63d95ce87d5e668e0e172070a745eba3e24be8e5?sender=u6d0754f8081e06ad53731002>

**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

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## 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

- Team gathering**  
Define who should participate in the session and send them invites. Share relevant information or pre-work ahead.
- Set the goal**  
Think about the problem you'll be focusing on, solving or fine-tuning/recruiting services.
- Learn how to use the facilitation tools**  
Use the Facilitator 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**

How might we [your problem statement]?

- Some trash bins are overflowing while others are underfilled by the trash collection time.
- overflowed trash bins create unhygienic conditions.
- unoptimized truck routes result in excessive fuel usage and environmental pollution and soil warming.
- therefore the maintenance of garbages and trash bins are major role in maximum problems

## Brainstorm

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

10 minutes

**TIP**  
The purpose of this exercise is to generate ideas, not to evaluate them.

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DEVICE MUST BE CAPABLE OF WORKING IN ALL ENVIRONMENT	MESSAGING SERVICE SHOULD BE MADE AVAILABLE	NETWORK MUST BE AVAILABLE AT ALL TIMES	SMALL AMOUNT OF GAS SHOULD BE ENOUGH TO DETECT
LOS MUST BE VISIBLE TO MONITORED "AT LIEBING" FOR ACCESS THE DATA	AVAILABILITY IN DELIVERING THE MESSAGE SHOULD BE MINIMAL	PRODUCT SHOULD BE MADE OF HIGH QUALITY MATERIALS	EASE OF INSTALLATION AND MAINTENANCE
		WIDE RANGE OF GASES SHOULD BE DETECTED	EASE OF MOBILITY
		COST OF SENSOR SHOULD BE ECONOMICAL	
			THE PROPOSED SYSTEM MUST BE AFFORDABLE

**MANIKANDAN M**

RATE OF DETECTION MUST BE HIGH

NETWORKS ARE AVAILABLE CERTAIN SENSORS ARE USED

## Key rules of brainstorming

To run an efficient and productive session

- Stay in topic.
- Encourage wild ideas.
- Defer judgment.
- Listen to others.
- Go for volume.
- If possible, be visual.

**Need some inspiration?**  
Use a facilitator's superpower to generate or modify your ideas.

[Open examples](#)

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### 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

#### ENVIRONMENT.

DEVICE MUST BE CAPABLE OF WORKING IN ALL ENVIRONMENT

constant power source should be available

EASE OF MOBILITY

BACKUP POWER SHOULD BE READILY AVAIL

#### AUTHENTICATION

DATA SHOULD BE MADE AVAILABLE ONLY TO THE AUTHENTICATED USERS

MODIFICATIONS ON DEVICE CONFIGURATION CAN ONLY BE DONE BY AUTHENTICATED USER

#### NETWORK

NETWORK MUST BE AVAILABLE AT ALL TIMES

LATENCY DELIVERING THE MESSAGE SHOULD BE MINIMAL

#### COST

COST OF SENSOR SHOULD BE ECONOMIC

THE PROPOSED SYSTEM MUST BE AFFORDABLE

EASE OF INSTALLATION AND MAINTANCE

#### QUALITY

PRODUCT SHOULD BE MADE OF HIGH QUALITY MATERIALS

#### PERFORMANCE

ACCURACY OF DETECTION MUST BE HIGH

RATE OF DETECTION MUST BE HIGH

SMALL AMOUNT OF GAS BE SHOULD DETECTED

TP  
Add customer stories to provide a full context to your ideas. A good story can help you to better understand your own ideas.

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### 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

