

## Ideation Phase

### Brainstorm & Idea Prioritization


Date	15 September 2022
Team ID	PNT2022TMID31883
Project Name	Project - Smart Waste Management System For Metropolitan Cities
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.

### 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

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**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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#### 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**

The major problems affecting solid waste management are Unscientific treatment, improper collection of waste and ethical problems. This turn leads to hazards like environmental degradation, water pollution, soil pollution, air pollution.

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**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 [switch to sketch] icon to start drawing!

#### Sanjai R

Time Management	Detailed database of Bins and Stands
It gives Alert at Correct Time	The waste bin status is monitored

#### Sivadhanush T

Reduction in Number of Dustbin Needed	Fuel use and Traffic Congestion
Less Manpower	Protection of the Environment

#### Subhasri R

Recycle the Waste	Reduce the effect of waste on the Environment
Provide Hygienic	Disposal of waste without Polluting the Environment

#### Youkhan Hari SS

Platform to clean the environment	In this trash Liquid content are not allowed
Healthy Ecosystem	Saves the Earth and Conserves Energy

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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

E-Waste is Monitored by using Sensor is fixed in the bins

Its useful to collect the Waste on correct time when the trash is full

Replace the normal bins to E-waste bins can be used to managed the E-waste

Notification is sent to concerned person when the trash is full

urban areas can be used waste disposal bins

Day to day controller receives the update about the filled level of dustbins

Automated open/close bins

Reduce the number of bins needed

Fuel Use and Traffic Congestion

Resulting in less Manpower

Platform to clean the Environment

People Escape from disease

Saves the earth and conserves Energy

Reduce the Environmental Pollution

Healthy Ecosystem

#### TIP

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

## Step-3: Idea Prioritization

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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

