

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	15 October 2022
Team ID	PNT2022TMID30606
Project Name	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

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 ID:
PNT2022TMID30606

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](#) ➔

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

How might we [your problem statement]?



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

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 (switch to sketch) icon to start drawing!

VALARMATHI S

The proposed system would be able to automate the solid waste monitoring process and management of the overall collection process using IOT

Placing Ultrasonic sensor to detect level of bins

UMADEV I R P

Enable GPS function to locate bins easier

Waste generation analysis to understand cities usages

SAKTHI V

Load cell on bottom of bins

Place Arduion board at left side at left side of bins

Visual fill status indicators on top of bins

SATHIYA D

using by GSM in bins achive wireless communication with bins and managing center

When bins fill alert message to the authorized person

Solar panels for power supply for IOT devices

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 and 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.

Smart garbage maintenance server

Transparency and sustainable solution than normal garbage bins

Optimized trash collection route

Collect degradable and non-degradable wastes

IOT alert authorized person when bins going to fill

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

