

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	30 September 2022
Team ID	PNT2022TMID04607
Project Name	Smart Waste Management System For Metro Politan 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.

Reference: <https://www.mural.co/templates/empathy-map-canvas>

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

[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

1

Team gathering
Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.

2

Set the goal
Think about the problem you'll be focusing on solving in the brainstorming session.

3

Learn how to use the facilitation tools
Use the Facilitation Superpowers to run a lively 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]?

2

Key rules of brainstorming
To run an smooth and productive session

🗨️ Stay on topic

💡 Encourage wild ideas

🛑 Defer judgement

👂 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

Write down ideas on sticky notes and stick them on a wall or board.

Person 1

Person 2

Person 3

Person 4

Person 5

Person 6

Person 7

Person 8

3

Group Ideas

Take time during your ideas while clustering similar or related ideas together. In the next 10 minutes, group your ideas into clusters. If a cluster is large, break it into smaller sub-groups.

10 minutes

TIP

Write down ideas on sticky notes and stick them on a wall or board.

The sensors attached to the smart bins can measure waste level, humidity, temperature, weight, and type of waste inside the bins.

Design and Implementation of Smart Home Control Systems Based on Wireless Sensor Networks and Power Line Communication

Waste bins are part of our lives for decades and mostly its condition are overflowing due to improper waste dumping, collection and management, which leads in foul smell and unhygienic condition, thus inherently results in environment pollution.

Step-3: Idea Prioritization

4

Prioritize

Now focus on the ideas that are most important to you. Rank them based on their importance and feasibility. Write down the ideas that are most important and feasible.

10 minutes

The ultrasonic sensor is made up of four pins which are Vcc, echo, trigger and ground.

the common waste management dump yard rather than indicating to the sanitary worker to service it.

Data transmission delay test was also carried out to ascertain the time it takes for the system to send measured bin level to ThingSpeak to get published.

The use of technologies is very significant towards the development of smart cities.

In public places and villages garbage accumulation is the serious problem now a days.

TIP

Write down ideas on sticky notes and stick them on a wall or board.