Ideation Phase
Brainstorm & Idea Prioritization Template

Date	17 September 2022
Team ID	PNT2022TMID32932
Project Name	SMART WASTE MANAGEMENT SYSTEM
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
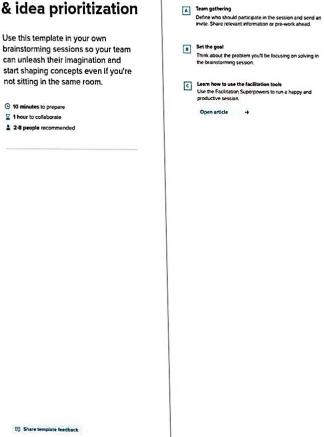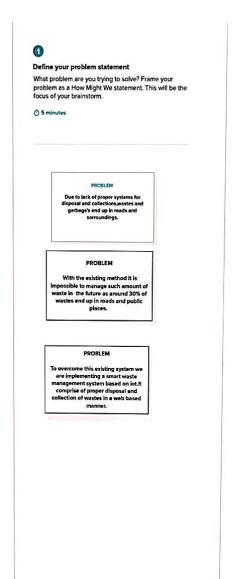
Brainstorm & idea prioritization

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

➔

Before you collaborate

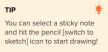A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

🕐 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 →

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

Due to lack of proper systems for disposal and collections,wastes and garbage's end up in roads and sorroundings.

PROBLEM

With the existing method it is impossible to manage such amount of waste in the future as around 30% of wastes end up in roads and public places.

PROBLEM

To overcome this existing system we are implementing a smart waste management system based on iot.It comprise of proper disposal and collection of wastes in a web based manner.

Step-2: Brainstorm, Idea Listing and Grouping

2

Brainstorm

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

🕙 **10 minutes**

Preethiyangaradevi A

Easy to design	Light weight and reliable	Cost Effective
Use wireless Sensor	Time Consumption	To check garbage level using sensor

Shalini S

Waste is cleared	Easy to design	Low power consumption
Cost Effective	Use wireless sensor	Determine the garbage level

Sanmathi R

Cost Effective	High accuracy	Monitoring is easy
Efficient system	Check the garbage level using sensor	Use wireless sensor

Srividhya sri R

Use wireless sensor	No external storage	Cost effective
Share the location to garbage collector	Easy to design	Effective system

3

Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. In the last 10 minutes, 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**

Use Wireless sensor	**Cost Effextive and time consumption**	**Share the location to garbage collector**	**Check garbage level using sensor**

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**

Importance

If each of these tasks could get done without any difficulty or cost, which would have the most positive impact?

- Getting garbage level information
- Managing the disposal of waste
- Reuse and recycle the wastes
- Predicting by the previous usage of garbage
- Safe disposal of waste
- Reduce the waste we produce
- Prevent the environment from toxic effect

TIP 💡

Participants can use their cursors to point at where sticky notes should go on the grid. The facilitator can confirm the spot by using the laser pointer holding the **H key** on the keyboard.

Feasibility

Regardless of their importance, which tasks are more feasible than others? (Cost, time, effort, complexity, etc.)