

## Ideation Phase

### Brainstorm & Idea Prioritization Template

Date	27 June 2025
Team ID	LTVIP2025TMID36584
Project Name	cleantech: transforming waste management with transfer learning
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/brainstorm-and-idea-prioritization>

#### 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

●

### 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 an invite. Share relevant information or pre-work ahead.

➤

#### Set the goal

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

➤

#### 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

Manual waste segregation is inefficient, error-prone, and costly. There is a need for an automated, intelligent solution that can classify waste at the source using minimal human effort.

🕒 5 minutes

PROBLEM

**How might we:** Manual waste segregation is inefficient, error-prone, and costly. There is a need for an automated, intelligent solution that can classify waste at the source using minimal human effort?

🧠

### Key rules of brainstorming

to run a smooth and productive session

🗣️ Stay in topic.

💡 Encourage wild ideas.

👂 Enter judgment.

👂 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

**Veda**

Image-based classification

Smart bin integration

**Bhavishya**

Voice command input

QR code tagging

### 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 can break it up into smaller sub-groups.

20 minutes


Idea	Description	Category
Image-based classification	Use AI to detect and classify waste from images	Core Function
Smart bin integration	Attach a camera and onboard processor to dustbins	Hardware Integration
Mobile/Web upload system	Users upload waste images for classification	User Interface
Voice command input	Use speech-to-text for categorization	Accessibility
QR code tagging	Attach product-specific QR codes for identification	IoT Enhancement
Real-time prediction	Immediate feedback on uploaded image	UX Improvement
Result logging	Store classification history for analytics	Data Analytics

## 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



**Facilitator**

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

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