

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	19 September 2022
Team ID	PNT2022TMID16964
Project Name	Project - GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES
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

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 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're working on solving in the brainstorming session.
- Learn how to use the facilitation tools**
Use the facilitation tools to ensure you have 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

The main objective of this project is that it is extremely accurate. The project system's best to detect gas leakage and also warn people around that in SMS. It has been said to the responsible person for prepare safety calculations.

Key rules of brainstorming
to get an innovative and productive session

- Step 1: topic
- Define problem
- Set the volume
- Encourage or discuss
- Listen to others
- If possible, be visual

Need some inspiration?

See 2,418 ideas in 113 categories for this template.

[Open examples](#)

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 zero (0) icon to remove it.

Vishnu V

Monitoring confined spaces and tanks

detecting loss of oxygen

We can use portable detectors

due to odourness we can detect various gases

Manojkumar S

Good sound recording modules needed

Place detector near the source of the gas

Use soapy water test

Using tin oxide semiconductor devices

Gunaseelan D

Use combustible gas leakage detector

Avoiding carbon monoxide detector

Using colorimetric detection devices

Closing regulator burner knobs

Sanjai S

Checking zero percent LEL indicator

Place detector about 6 inches from ceiling

Use MQ2, MQ2-LPG, MQ5, MQ6 sensors

Consider the ppm of natural gas

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 can break it up into smaller sub-groups.

20 minutes

TIP
Add custom labels to sticky notes to make it easier to find, transfer, delete, and organize your ideas as they evolve over time.

SYMPTOMS OF GAS LEAK

HISSING SOUNDS

THE SMELL OF ROTTEN EGGS

AIR BUBBLES OUTSIDE YOUR HOME

HIGHER THAN NORMAL GAS USAGE

major gases detected

oxygen

carbon monoxide

Hydrogen sulfide

methane

LPG SAFETY

KEEP AWAY FROM FLAMES AND SPARKS

DO NOT KEEP LOOSELY FITTED

DO NOT LAYING HORIZONTALLY

TO AVOID ROLLING

major methods

converting LEL to PPM

Use of plasma monitor technology

Electrochemical gas detectors using oxidation and reduction

monitoring LEL and UEL (lower and upper explosion level)



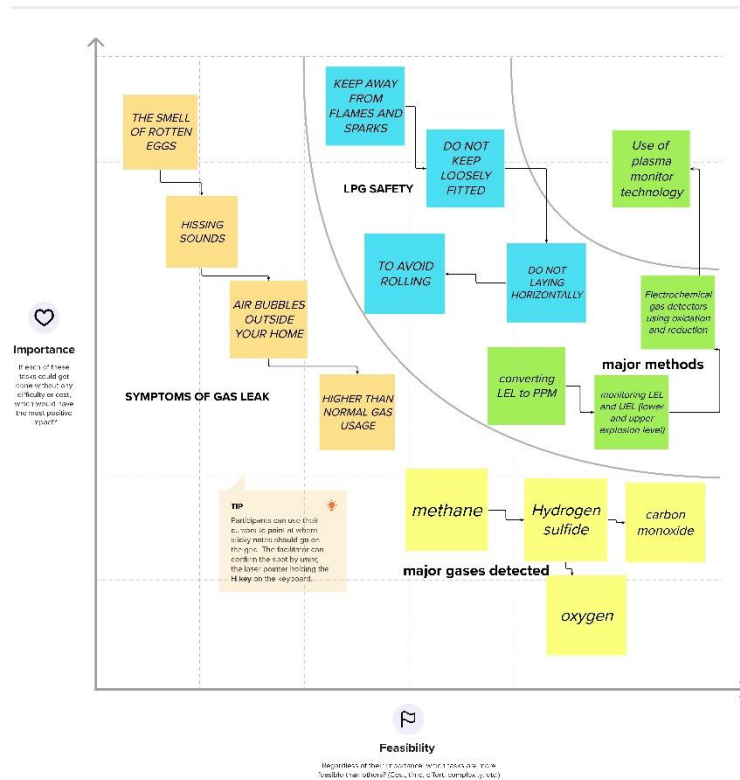
Step-3: Idea Prioritization

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



→

After you collaborate

You can export the mural as an image or pdf to share with members of your company who might find it helpful.

Quick add-ons

- A Share the mural**
Share a view link to the mural with stakeholders to keep them in the loop about the outcomes of this session.
- B Export the mural**
Export a copy of the mural as a PNG or PDF to attach to emails, include in slides, or save in your drive.

Keep moving forward

- Strategy blueprint**
Define the components of a new idea or strategy.
[Open the template →](#)
- Customer experience journey map**
Understand customer needs, motivations, and obstacles for an experience.
[Open the template →](#)
- Strengths, weaknesses, opportunities & threats**
Identify strengths, weaknesses, opportunities, and threats (SWOT) to develop a plan.
[Open the template →](#)

[Share template feedback](#)

