

## Ideation Phase


### Brainstorm & Idea Prioritization Template

Date	24 September 2022
Team ID	PNT2022TMID08134
Project Name	Gas Leakage Monitoring & 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.


#### 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

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**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

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**PROBLEM**


How might we [your problem statement]?





#### Key rules of brainstorming


To run a smooth and productive session


 Stay in topic.

 Encourage wild ideas.

 Defer 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



#### Importance

Each of these ideas could get done without any difficulty or cost, which would make the work easier to do.

#### TIP

You can select a sticky note and set the pencil (switch to sketch) tool to start drawing!

Karan S

Best scalability future

Better output sensors

Alert the user

Damaging The Environment

Madhankumar V

Measure the amount of gas and inform immediately

Material losses of gas leakage

Financial issues due to material damage

Buzzer gives signal in presence of gases

Hariharan P

Detects the gas leakage with use of sensors

Alarm with LED and buzzer

Send messages to specified mobile number

Display message on LCD display

Nandhakumar M

very accurate precious readings

cheapest sensor

If high gas leakage was detected the valve is automatic closed

Reduce the cost of kit

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 customizable tags to sticky notes to make it easier to find, move, organize, and categorize ideas. Use as many as you need!

Better output sensors

Very accurate precious readings

Throat & Lung infection

Severe headaches

reasons

Health issues

Detects the gas from which area gas leaks

Alert the user

skin problems

Loss of concentration

Alternative number to send messages

Display message on LCD display

Material losses of gas leakage

Financial issues due to material damage

Security

Industrial results

Measure the amount of gas and inform immediately

Alarm with LED and buzzer

Detects the gas from which area gas leaks

Time to take recover the material

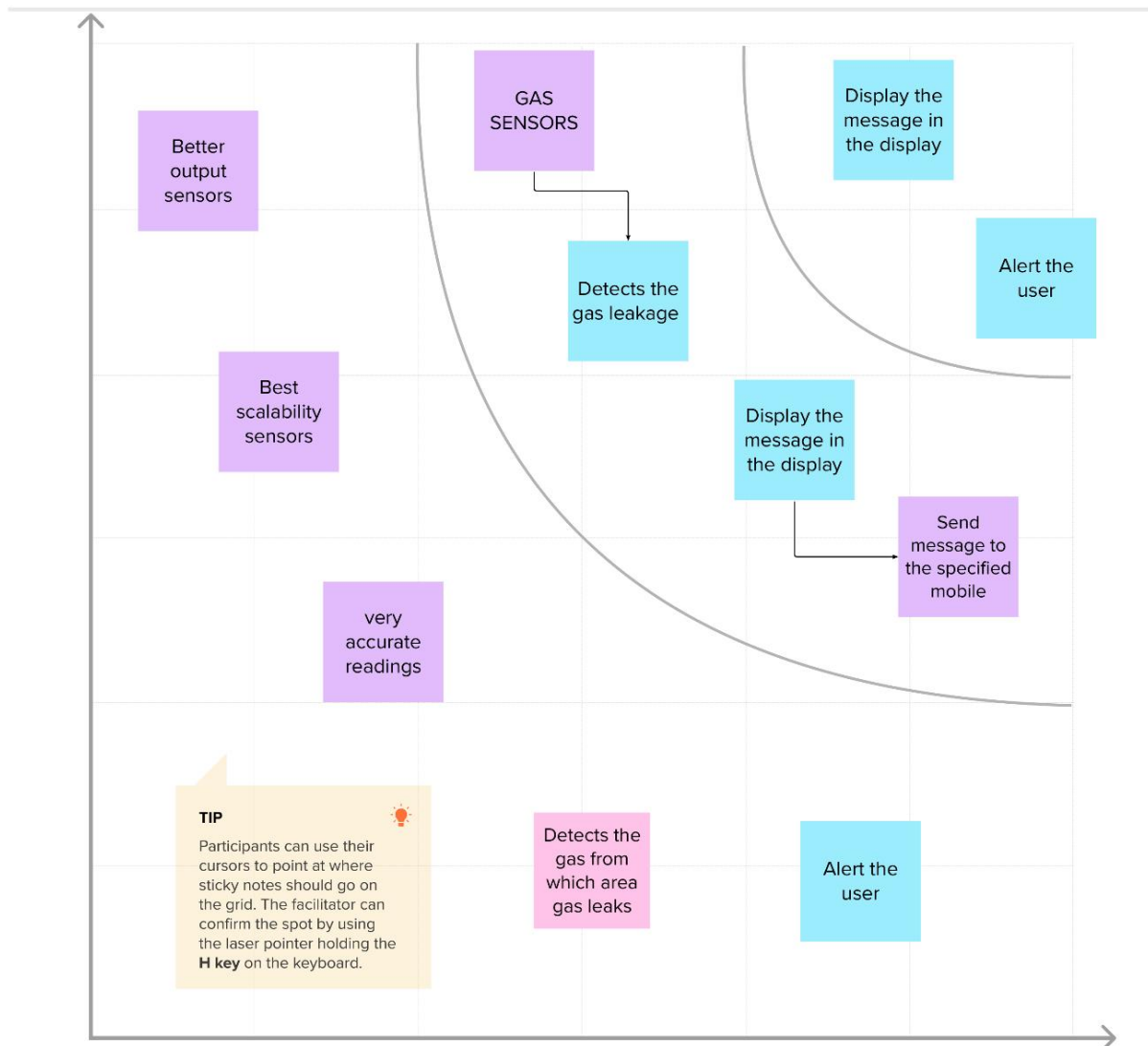
### Step-3: Idea Prioritization

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



#### Feasibility

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