

# Ideation Phase

## Brainstorm & Idea Prioritization Template


TEAM ID: **PNT2022TMID52302**

Project: **Gas Leakage Monitoring & Alerting System for Industries**

### 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

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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

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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.

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#### 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 help industries in monitoring the leakage of harmful gases?



#### 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

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### Brainstorm

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

10 minutes

Abul Joobi P

Harmful gas detection.	Easy instructions to use	Use low cost microcontroller
Efficient use of IoT	Reliability of product	Use safety standards

Daniel R

Quick alerts	Fire hazard prevention	Compact design
Leakage level monitoring	Reduce complexity	Provide clear report

Dinesh S N

Employ an audible alarm	Update the report frequently	Alert the admin and security professionals
Low cost of production	Prevent false alarm	Should be very sensitive

Pedmanabhan P

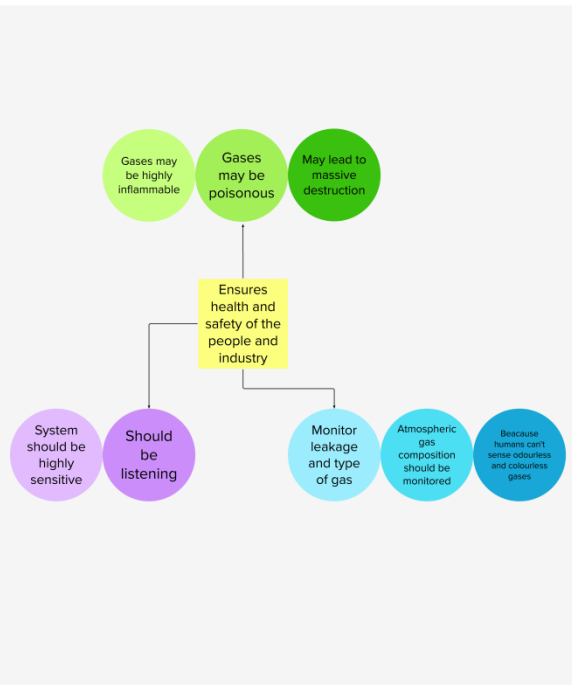
Measure atmosphere oxygen levels	Ensured quality	Fast and secure connectivity
Detects and cut the gas supply	Early detection of leakage	Ensure safety and compliance

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### 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



Step-3: Idea Prioritization

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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

