

## Ideation Phase

### Brainstorm & Idea Prioritization

Date	19 September 2022
Team ID	PNT2022TMID35867
Project Name	Gas Leakage Monitoring and Alerting System
Maximum Marks	4 Marks

#### Brainstorm & Idea Prioritization:

##### Reference:

<https://app.mural.co/invitation/mural/annauniversitymitcampus2119/1664007295957?sender=ud5b4956f9507f93cc7144214&key=07b68639-2ffc-47bf-8e8c-663afada5aa6>

#### 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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2

### 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

3

#### Team gathering

Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.

4

#### Set the goal

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

5

#### 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

How to identify different gas types and their concentration?

PROBLEM

How to alert people about gas leakage?  
Does it require Continuous monitoring?

PROBLEM

How to design system with user-friendly or customized as per needs?

PROBLEM

What if machine fails?  
Whether it ensure safety and QoS?



#### Need some inspiration?

Get additional versions of this template to inspire your work.

[Open example](#)

## 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 collect a sticky note and let the person(s) who is sketching it to start drawing!

**JOEY INFANT REX A**

- Study of different Gas types & their concentration
- Case Study of Gas Leakage Accident
- Providing health safety Assurance
- Reducing latency and Improve machine stability

**PRAKASH E**

- Analysis of different Gas Sensor and Efficiency
- Providing continuous monitoring with good accessibility
- Providing Quality of Service
- Study of health problem associated

**VASANTH KUMAR M S**

- Analysis of Factor affecting efficiency of system
- Better usage of Resource
- Reducing Malfunction of system
- Study of Dynamic monitoring process

**AKHILESH CHANDRA**

- Providing user-friendly experience
- Reducing cost and Maintenance
- Analyse latest technology
- Ensure protected Environment

### 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

**TIP**  
Add color-coded tags to sticky notes to make it easier to find, review, organize, and categorize important ideas as you brainstorm your ideas.

```

graph TD
    A[Reducing Malfunction of system] --> C[Cost Efficient]
    B[Reducing installation cost and Maintenance] --> C
    C --> D[Better usage of Resource]
    D --> E[Providing Quality of Service]
    D --> F[Saves life]
    F --> G[Ensure Safety and Protected Environment]
    F --> H[Providing user-friendly experience]
    E --> I[Providing continuous monitoring with good accessibility]
    
```

## 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

