

Ideation Phase


Brainstorm & Idea Prioritization Template

Date	19 September 2022
Team ID	PNT2022TMID47529
Project Name	Gas Leakage Monitoring and Alerting System
Maximum Marks	4 Marks

Team Members	
Team Head	AJAY KUMAR K – 910419106001
Team Member 1	SNEHA R M – 910419106301
Team Member 2	KANNAKI M – 910419106003
Team Member 3	SUBITSHA R – 910419106009




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

 Share template feedback



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

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


PROBLEM


This project helps industries monitor the emission of harmful gases. In several areas, the gas sensors will be integrated to monitor the gas leakage. If in any area, gas leakage is detected, the admins will be notified along with the location. In the web application, admins can view the sensor parameters.


**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

Tip
You can select a sticky note and hit the pencil (switch to sketch) icon to start drawing!

AJAY KUMAR K

Alarm system to connected devices

Alert gas leakage to the fire station

SNEHA R M

It automatically switch on the exhaust fan.

Introducing wireless gas detection system

KANNAKI M

Sensor present in the gas tank

Mobile app for real-time monitoring

SUBITSHA R

Sending alert message to mail

Sending alert message through SMS

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

NETWORK BASED

Sending alert message through SMS

Cloud based gas leakage monitoring

Using GSM for send alert system

FEATURES TO BE ADDED

web-based app for realtime monitoring

Adding new advance sensors

Control the gas leakage automatically

Step-3: Idea Prioritization

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

