

Ideation Phase

Brainstorm & Idea Prioritization Template

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| Date | 19 September 2022 |
| Team ID | PNT2022TMIN19917 |
| Project Name | GAS LEAKAGE 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.

GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

TEAM ID:
PNT2022TMIN19917

This project helps the industries in monitoring 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

1 Define your problem statement
What problem are you trying to solve? Have your audience in mind. Write the statement. This will be the focus of your brainstorm.

PROBLEM STATEMENT
Domestically we use natural gas and it is very useful for burning purposes. If this gas is leaked in our kitchens, offices or factories and not sensed in time, it may lead to a fatal disaster, and may cause human loss. For this purpose, we came forward with an idea of making such an electronic device to sense that leakage and alarm the respective persons to solve that leakage problem and save assets and human lives.

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

| PROBLEM | PROPOSED SOLUTION | DETAILS | PROS/CONS/IDEAS |
|------------------------|-----------------------|-----------------------|-----------------------|
| Gas leakage in kitchen | Gas sensor in kitchen | Gas sensor in kitchen | Gas sensor in kitchen |
| Gas leakage in office | Gas sensor in office | Gas sensor in office | Gas sensor in office |
| Gas leakage in factory | Gas sensor in factory | Gas sensor in factory | Gas sensor in factory |

3 Group ideas
Take your ideas and group them into categories. Sort or related ideas as you go. Once all ideas are sorted, you can group them into categories. If you have a lot of ideas, you can group them into categories. If you have a lot of ideas, you can group them into categories.

| CATEGORY 1 | CATEGORY 2 | CATEGORY 3 | CATEGORY 4 |
|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Prevent fire hazards and explosions | Prevent fire hazards and explosions | Prevent fire hazards and explosions | Prevent fire hazards and explosions |
| Prevent fire hazards and explosions | Prevent fire hazards and explosions | Prevent fire hazards and explosions | Prevent fire hazards and explosions |
| Prevent fire hazards and explosions | Prevent fire hazards and explosions | Prevent fire hazards and explosions | Prevent fire hazards and explosions |

4 Prioritize
Now you should select the ideas that you want to implement. You can use the matrix to select the ideas that you want to implement. You can use the matrix to select the ideas that you want to implement.