

Ideation Phase

Brainstorm & Idea Prioritization Template


Date	19 September 2022
Team ID	PNT2022TMID19393
Project Name	Project – Industry–Specific Intelligent Fire Management System
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.

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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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.

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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

To detect fire and gas leakage in industries using IOT and to reduce the loss of life and property by deploying IOT based fire detection system



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!

DHARSHINI K

- "There is no bugs and errors"
- "Through an application, we can get an alert"
- "It is a safer system"
- "No need to buy again and again"
- "Necessary technology in the industry"

ANDROGOWSIKA J

- "Protect from fire disasters"
- "Helps to notify a message in case of emergency"
- "Easy to use"
- "It is worth buying"
- "The quality is good"

KOWSLAYA E

- "By getting an alert, we can prevent further material damage"
- "There is no need for high maintenance"
- "Too safety for workers"
- "Technology with lower cost"
- "Going to be the leading technology"

BHAVADHARANI R A

- "Environment friendly technology"
- "Protects from tremendous damage"
- "Useful for industry"
- "Providing alert to take immediate measures"
- "It is easy to implement"

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

SECURITY

- "To protect all the industrial materials"
- "Saves the worker's life"
- "Providing security by means of intelligent alerts"

TECHNICAL ASPECTS

- "See sensor is needed to detect the fire"
- "Temperature sensor is needed for this system"
- "Create application to get alert"

AVAILABILITY

- "Data about temperature is necessary"
- "Continuous data to detect"
- "Wireless sensor network"

SOCIAL IMPACTS

- "Reduce the loss of life"
- "Earlier precaution measures"
- "Required for every industry for safety purpose"

INTELLIGENT SYSTEM

- "Functions faster than human"
- "Providing buzzer and alert message"
- "Protects from enormous damage"

GOALS


- "Getting alert in case of emergency"
- "Detect fire earlier"
- "Controlling fire risks"

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



Importance

If each of these tasks could get done without any difficulty or cost, which would have the most positive impact?

Feasibility

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

