

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	14 October 2022
Team ID	PNT2022TMID27744
Project Name	HAZARDOUS AREA MONITORING FOR INDUSTRIAL PLANT POWERED BY IOT
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

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
👥 3-8 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

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

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

Learn how to use the facilitation tools
Use the Facilitation Superpowers to run a happy and productive session.

[Open article](#)

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

How might we [your problem statement]?

Key rules of brainstorming
To run a smooth and productive session

- Stay on topic. Encourage wild ideas.
- Defer judgment. Listen to others.
- Go for volume. If possible, be visual.

Need some inspiration?

Use a random source of inspiration to inspire your ideas.

[Open source](#)

Step-2: Brainstorm, Idea Listing and Grouping

2

Brainstorm

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

10 minutes

Person 1

- Monitoring the leakage of gas
- Control of Temperature
- Accessing through Phone
- Keeping a track of all production elements
- Should be completely automated
- Safety precautions while using electronic devices

Person 2

- Low cost
- Easy to use
- Easy to install
- Easy to maintain
- Easy to upgrade
- Easy to replace
- Easy to repair
- Easy to use
- Easy to install
- Easy to maintain
- Easy to upgrade
- Easy to replace
- Easy to repair

Person 3

- INCREASED SECURITY
- Automation of hardware & software
- Drift speed switches
- Temperature and flow adjustment
- INCREASED SECURITY
- Automation of hardware & software
- Drift speed switches
- Temperature and flow adjustment

Person 4

- Deep field analysis with key factors
- Temperature sensors measure the temperature
- Temperature and flow adjustment
- Easy to install
- Easy to maintain
- Easy to upgrade
- Easy to replace
- Easy to repair
- Easy to use
- Easy to install
- Easy to maintain
- Easy to upgrade
- Easy to replace
- Easy to repair

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

TEMPERATURE

REMOTE ACCESS

SAFETY

COST EFFICIENT

COLLECTOR

Tip

Add color-coded tags to sticky notes to make it easier to find, remove, organize, and rearrange important ideas as you refine your ideas.

Step-3: Idea Prioritization

1

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

How much of these ideas would you want to move forward with? Which ideas would have the most positive impact?

Feasibility

How much of these ideas would you want to move forward with? Which ideas would have the most positive impact?

Tip

Participants can use their current to start at where they want to go on the grid. The facilitator can guide the team by using the blue pointer holding the idea on the board.

REMOTE ACCESS

SAFETY