


Ideation Phase

Brainstorm & Idea Prioritization Template




Date	17 September 2022
Team ID	PNT2022TMID39426
Project Name	Hazardous Area Monitoring For Industrial Plant Powered By IoT
Maximum Marks	4 Marks


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
 2-8 people recommended

 **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

Industrial hazard in the danger or chance of accidental injury to the worker with in the plant,identifying industrial hazards allows employers to protect their workers from accidents, injuries and fatalities.Safety in simple terms means freedom from,the occurrence of risk on injury or loss .Industrial safety refers to the protection of workers from the danger of industrial accidents when they work in the factories.

Key rules of brainstorming

To run an 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

Person 1

detection of overheating in machines

smart switch board control

using a lone worker alarm to protect solo employees

industrial IoT bot

Person 2

Toxic gas detection in industrial areas

Temperature monitoring at tanks in industries

Detecting minor faults in machines

Continuous monitoring of valves at tanks in industries

Person 3

Emergency shutdown system

fluid level indicators and controller

Fire detection alarm and automate water flushing

Bird Effectors and control logic for robot

Person 4

Human entry detection in dangerous area

Smart glass like control remote devices using fluid sensor and IoT/5G

Feel the heat with sensitive and responsive

Industrial laser follower for supplying materials

3

Group Ideas
Take turns sharing your ideas while clustering similar or related notes as you go. In the last 10 minutes, 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

1.Detection of toxic gases in industry environmental places

2. Fire detection alarm and automatic water flushing system.

3. Human entry detection in dangerous area

4.detection of overheating in machines

5. Smart switch board control.

6.Temperature monitoring at tanks in industries

TIP

Add customisable tags to sticky notes to make it easier to find, browse, organize, and categorize important ideas as they arise within your mind.

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

