

## Ideation Phase


### Brainstorm & Idea Prioritization Template

Date	19 September 2022
Team ID	PNT2022TMID02630
Project Name	HAZARDOUS AREA MONITORING INDUSTRIAL PLANT POWERED BY IOT
Maximum Marks	4 Marks

#### Brainstorm & Idea Prioritization:




#### 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

## HAZARDOUS AREA MONITORING INDUSTRIAL PLANT POWERED BY IOT

In Hazardous Area , lots of accidents like explosion due to sudden increase of temperature and increase level of toxic gases like Nitrogen Dioxide, Phosphine etc. In this project ,We are going to give the solution for the problem.

## Step-2: Brainstorm, Idea Listing and Grouping

2

### Brainstorm

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

🕒 10 minutes

#### PADMAPRIYA B

Using pressure sensor to monitor the surrounding pressure

Continually monitoring the temperature in that region ,use buzzer alarms to alert when the temperature exceeds a certain threshold and take necessary action.

#### SAIVIGNESH PJ

Using Bluetooth based Sensor Monitoring in industrial IoT plants

#### YAMINI M

Use Cloud Technology to provide better industrial experience

Sensor- cloud is a new paradigm for cloud computing that uses the physical sensors to accumulate the data and transmit all the sensor data into cloud infrastructure.

#### PRIYADHARSHINI SB

Sensor - Cloud handles the sensor data efficiently which is used in many industrial applications.

To monitor the conditions we can integrate a smart devices in industrial areas.

IoT requires a local, low power wireless communication to acquire data from sensor devices and local gateway is connected to internet for local monitoring and control

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### 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

Using MOS sensor to monitor the various gases level

Monitoring with smart cameras and using pressure sensor to detect and monitor the environmental pressure

Workers need to wear the temperature sensor with band

Continuously monitoring the workers temperature

Beacon Scanner is also attached in working of the system

Every device will be acting as a beacon and it is connected to temperature sensor

The admin of that industrial plant can view the data and take necessary precaution if required

Workers has need to wear the band with sensor

The use of sensor is to track every step of workers do when handling equipment

### 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

