

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	06 May 2023
Team ID	NM2023TMID14262
Project Name	Gas Pipeline Monitoring System for Hospitals
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.

LINK:

<https://app.mural.co/invitation/mural/nmgaspipelinemonitoringsyste0502/1684428224391?sender=u1a6257ce058aba688b205656&key=75bfaf48-edd2-4654-ad18-e3b8c48aeae6>

Step-1: Team Gathering, Collaboration and Select the Problem Statement

IBM PROJECT



Brainstorm & idea prioritization

Gas Pipeline Monitoring System for Hospitals

- This Project helps the hospitals in monitoring the emission of gases.
- In some area, the gas sensors will be integrated to monitor the gas leakage.
- If in any area gas leakage is detected the staffs will be notified along with location.
- In web application, staffs can view the sensors parameters.

Share template feedback

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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.

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 STATEMENT

It is essential to maintain proper levels of gas, as it is used in operating theatres in order to improve patient's condition. Oxygen is the most common and important gas that has to be checked at regular intervals for availability. Leakage of these gases can pose a severe threat to the safety of lives in hospitals. Through this smart system, staff will now be able to check the level of gas present for use and will be able to take safety measures when alerted during a gas leak. Sensors are used to record the levels of gases, which are stored in the cloud. These values are displayed on a mobile application for the users.



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

RICKY CHARLES

Measuring the amount of gases

Highest accuracy

Reliable technology

Easy to maintain

Easily to get result

Cost effective

YUVARAJ S K

less sensitive to errors

avoiding effective ignition

regular training sessions for staffs

data tracking feature

low cost proven technology

system is highly reliable

RAKESH KUMAR M

Employing redundant gas

collaborating with gas suppliers

automated gas shut-off

remote monitoring feature

Ensuring worker's health

Integrating the gas monitoring

SHYAM SUNDAR R

preventing explosive atmospheres

data analytics for improved decisions

use of a physical device

low cost installation

real-time updates

easy to manage

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

CATEGORY 1

Monitor the gases

Highest accuracy

Prevent free hazards

measure toxic gases

sensor with fast response

free from gas wastage

CATEGORY 2

ensure worker's health

instant result

collaboration with gas suppliers

integrating with gas monitoring

system is highly reliable

data tracking feature

CATEGORY 3

Possible to get repeatability

cost effective

physical device

Easy to maintain

real-time updates

avoiding effective ignition

CATEGORY 4

automated gas shut-off

data analytics

improved decisions

easily to get result

servicing and calibration options

redundant gases

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

