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

Share template feedback

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 →

MEMBERS OF THE IDEATION PROCESS:

TEAMLEAD: SANTHOSH.P
TEAM MEMBER 1: LAKSHMI NARAYANAN.B
TEAM MEMBER 2:AKASH RAJ.M
TEAM MEMMBER 3: BADHR MUHAMMED.S

TODAY'S DISCUSSION TOPIC:

Gas Leakage monitoring & Alerting system for Industries

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

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

10 minutes

TIP
You can re-direct a sticky note and hit the pencil [switch to sketch] icon to start drawing!

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 and break it up into smaller sub- groups.

20 minutes

TIP
Add customizable tags to sticky notes to make it easier to find, browse, organize, and categorize important ideas as themes within your mural.

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

TIP
Participants can use their cursors to point at where sticky notes should go on the grid. The facilitator can confirm the spot by using the space bar or holding the H key (solo keyboard).

After you collaborate
You can export the mural as an image or pdf to share with members of your company who might find it helpful.

Quick add-ons

Share the mural
Share a view link to the mural with stakeholders to keep them in the loop about the outcomes of the session.

Export the mural
Export a copy of the mural as a PNG or PDF to attach to emails, include in slides, or save in your drive.

Keep moving forward

Strategy blueprint
Define the components of a new idea or strategy.
Open the template →

Customer experience journey map
Understand customer needs, motivations, and obstacles for an experience.
Open the template →

Strengths, weaknesses, opportunities & threats
Identify strengths, weaknesses, opportunities, and threats (SWOT) to develop a plan.
Open the template →

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PROBLEM STATEMENT

Every year there are numerous accidents due to gas leakage.
Both industrial and domestic leakage of gas might lead to such incidents

The leakage of gases only can be detected by human nearby and if there are no human nearby, it cannot be detected.
But sometimes it cannot be detected by human that has a low sense of smell.

Thus implementation of a gas detection and monitoring system can greatly help in reducing the accidents caused due to gas leakage.

SANTHOSH P

- arduino and sensor based gas leakage monitoring system
- The controller is interfaced with IBM Watson platform
- prefixed valuesin Arduino monitors the threshold of gas concentration in air.
- Analysis of data in a channel created in Watson platform
- MQ sensors are used to sense harmful gases
- Wifi module network to sense resultant data
- MQ 135 or MQ2 sensors for gas detection
- Alerting necessary authorities when gas is detected

LAKSHMI NARAYANAN B

- identifying the concentration of gas in air
- MQ sensor is used to monitor the concentration of gas.
- cloud data based microcontroller node mcu used for monitoring
- Algorithm implementation for working of monitoring system
- IBM cloudant service used for gas leakage monitoring
- Alerting authorities using Wifi when gas is detected
- Concentration of gas in air is sensed
- Other wireless means of network like LoraWAN

AKASH RAJ M

- Recording of values from sensor
- appdeveloping for gas detection and monitoring
- predicting the detection of gas leakage
- Project developed using IBM watson platform
- wireless network based data collection
- forming mesh network using sensor to better monitoring
- Air particle concentration measurement to sense gas
- Alert detection of gas enderminals can be implemented with specific application.

BADHR MUHAMMED S

- Usage of setup in both domestic and industries
- Domestic uses include LPG detection
- Industrial use includes gas leakage and other harmful gas detection
- LED indication or buzzer indication for alerting
- End applications can include alerting through applications
- In case of fire concentration of smoke particles can be sensed as well
- If in case of fire sprinklers etc can be activated automatically
- Using clouds services for continuous monitoring of gases

Group ideas

- Sensing gas leakage using MQ sensors
- Continuous recording of sensed values
- Detection of gas when change in recorded values
- Algorithm for proper operation of sensor
- algorithm encription and decription of data of recorded values
- Gas detection
- Sensor interfaced with Node MCU controller
- Implementing a code to analyze the recorded values
- Prediction and Algorithm implementation
- Gas Leakage monitoring and alerting system
- Cloud interface
- Node MCU and sensor based gas detection and monitoring
- Interfacing sensors and system together
- Node MCU
- Watson platform for online channel services
- GSM module to collect and transfer sensed data through the network
- Setting up the project kit in the ideal location
- Writes signals to the sensors and actuators