Team ID	PNT2022TMID16363
Project Name	Industry-specific intelligent fire management system

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

Industrial fires and explosions cost companies and governments billions of rupees every year apart from the loss of life,which cannot be described in monitory terms.These fires do not result only in huge loss of lives &property,but also disrupt production in the industry.

PROBLEM

How might we [your problem statement]?

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.

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Brainstorm

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

🕐 10 minutes

NAGARAJ M

Regular fire &evacuation drills	Storage of flammable materials in a safe area	Fire alarms tested &maintained periodically
Systematic approach for monitoring &control	Storage area equipped with a sprinkler & a smoke alarm	Emergency alerts are notified to fire station
To get real life data using IOT	Python code for publishing random sensor data	

ARUL PRAVIN K

Early detection using smoke	Connects multiple buildings	Updating temp,humidity & smoke on IBM cloud
Sending alert message about fire to user	Electrical fittigs must be properly maintained	Maintenance of the emergency lighting
To provide a low cost fire alarm system		

JOHN SHALEN R

Existance of emergency population warning methods	Transferring message through wireless technology	Put up signs & contact information emergencies
Create node red flow to get data from devices	If flame is detected sprinklers will be swited automatically	Android app for manual patrolling of the system
Implementing adequate no of fire extinguishers in each block		

BALAJI SB

Provision of clear signal indicating exit routes	Software designed to wty stand harsh industrial conditions	Water tank with separate piping with hose reel to all the floors
Multi sensors are used to detect any changes in the environment	If any gases are present exist fans are powered on	Cloudant DB nodes to store the received sensor data
A web page created to analyze the data		

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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 and break it up into smaller sub-groups.

🕐 20 minutes

RISK OF FIRE

Sensor Specification

- Multi sensors are used to detect any changes in the environment
- If flame is detected sprinkler will be switched on automatically
- Early detection using smoke sensor
- Storage area equipped with a sprinkler and a smoke alarm
- If any gases are present the exit fans are powered on

(top cluster)
- Systematic approach for monitoring and control
- Put up signs and contact information for emergencies
- Regular fire and evacuation drills
- Transferring messages through wireless technologies
- Sending alert text message about the fire to the user along with entire alarm
- Implementing adequate number of fire extinguishers in each block
- Emergency alerts are notified to fire station and authorities
- Provision of clear signage indicating exit route and location of fire safety equipment

Applications

- Python code for publishing random sensor data
- Constant DB nodes to store the recieved sensor data
- Create node red flow to get data from devices
- A web page created to analyze the data and respond almost continuously to source sensor updates
- Updating temperature, humidity and smoke on IBM cloud platform at periodic intervals
- To get real life data using IOT technology
- Android application for manual operating of the system

Maintenance

- Storage of flammable materials in a safe area
- Electrical fittings must be properly maintained
- Water tank with separate piping with hose red to all the floors
- Maintenance of the emergency lighting
- Fire alarms tested and maintained periodically

Advantages

- To provide a low cost fire alarm system
- Existence of emergency population warning methods
- Software designed to with stand harsh industrial conditions
- Connects multiple buildings

EXIT

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

Feasibility

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 circulate, convert to slides, or save to your device.

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) an idea is about to plan.
  Open the template →

- Share template feedback