

Ideation Phase

Define the problem statements

Date	24 September 2022
Team ID	PNT2022TMID11775
Project Name	Industry specific intelligent fire management system
Maximum Marks	2 Marks

Problem Statement:

Safety is a crucial consideration in the design of residential and commercial buildings to safeguard against the loss of life and damage to property. The existing fire alarm system on market nowadays is too complex in terms of its design and structure. Since the system is too complex, it needs regular maintenance to be carried out to make sure the system operates well. Meanwhile, when the maintenance is being done to the existing system, it could raise the cost of the system. The fire management systems in houses and businesses are not very reliant, efficient, or cost-effective, and they lack features like automatic alert systems for admin and authorities.

Project Objective:

To develop an Industry Specific Intelligent Fire Management System which includes

- A Gas sensor, Flame sensor and temperature sensors to detect any changes in the environment.
- If any flame is detected the sprinklers will be switched on automatically to sprinkle the water.
- Emergency alerts are notified to the authorised owners and Fire station to take immediate precautions.

PS-I



PS-II



Problem Statement(PS)	I am	I'm trying to	But	Because	Which makes me feel
PS – I	A customer	Ensure the fire safety in industry	I want to handle it easily	The fire explosion should be automatically detected without ant human monitoring	That my industry and my workers are safe
PS - II	Industrial worker	Safeguard against loss of life and damage to property	Fire alarm is not working	Sensor failure	Life threatening