Project Design Phase-I
Proposed Solution Template

Date	07 October 2022
Team ID	PNT2022TMID11542
Project Name	Project - Industry specific intelligent firemanagement system
Maximum Marks	2 Marks

Proposed Solution Template:

S.No	Parameter	Description
1.	Problem Statement (Problem to be solved)	The main goal of a fire alarm system is to give people advance notice of a fire so they can escape and take swift action to reduce or completely extinguish the fire's effects as soon as feasible.
2.	Idea / Solution description	• The exhaust fans are turned on based on the temperature readings and if any gases are present. • Sprinklers will be activated automaticallyif a flame is detected. • The authorities and the fire station are notified of any emergency alerts.
3.	Novelty / Uniqueness	• When the fire begins to spread, the temperature rises, and if any gases are present, the exhaust fans are activated. • If a flame is detected, the sprinklers will activate automatically and send a message to higher authorities and the firestation. • Our proposed system provides a solution for secure transmission of the real time data obtained from the sensors to the IBM cloud rather than using the networking devices like ZigBee, LORA, GSM modules which causes the interference of data obtained from multiple users. • Our product is cost effective, since for communication to higher officials we have a web dashboard rather using hardware devices. • Design and implementation of highly scalable product.

		• All the IOT end devices are controlled using standalone rechargeable batteries so that the product would last for a long span.
4.	Social Impact / Customer Satisfaction	• Customer experience can be identified through client feedback provided by customers who use our kit and provide feedback. • Prevents Pollution.
5.	Business Model (Revenue Model)	This version is used to calculate the opportunity of the ignition and spread across the land scape.
6.	Scalability of the Solution	With the help of our software, automated real-time decision-making is possible in a setting where hundreds of thousands of sensors are constantly providing data through a web dashboard without interfering with each other.