Project Design Phase-I
Solution Architecture

Date	08 October 2023
Team ID	PNT2022TMID21245
Project Name	Industry-specific intelligent fire management system
Maximum Marks	4 Marks

Solution Architecture:

- The smart fire management system includes a Gas sensor, Flame sensor and temperature sensors to detect any changes in the environment.
- Based on the temperature readings and if any Gases are present the exhaust fans are powered ON.
- If any flame is detected the sprinklers will be switched on automatically.
- Emergency alerts are notified to the authorities and Fire station.

Solution Architecture Diagram:

TEMPERATURE SENSOR

GAS SENSOR

FLAME SENSOR

ENVIRONMENT (INDUSTRY)

EXHAUST FAN

EMERGENCY ALERT

SPRINKLER

FIRE STATION