

INDUSTRY-SPECIFIC INTELLIGENT FIRE MANAGEMENT SYSTEM

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.

PROJECT DESCRIPTION:

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.