PROJECT OBJECTIVE

PROJECT NAME	Industry-specific intelligent fire management system
TEAM ID	PNT2022TMID26511
DATE	12 NOVEMBER 2022

ABSTRACT:

The main objective of "Industry specific-intelligent fire management system" is to prevent fire accidents in industries and take appropriate measures to avoid any mishap. This project also concentrates on the measures to prevent fire accidents caused due to flammable gas, smoke and rise in temperature. This system makes use of the best sensor available that detects any transpose in the environment. Based on the sensor readings, if any disparity is encountered, appropriate actions will be taken in order to prevent any misfortune. This model incorporates MQ2 gas sensor for detecting propane and methane gases, IR Flame sensor module to detect flame and LM35 Temperature sensor for the temperature measurement of the environment. These readings are monitored continuously by IBM Watson IoT Platform and stored in Cloudant DB. In case any undesirable variation occurs, the authorities and fire station will be alerted via Fast2SMS web service. The smart fire management system includes a Gas sensor, Flame sensor and temperature sensors to detect any movement or change in the environment. If the presence of gas is felt, then 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.