Project Design Phase-I
Solution Architecture

Date	24 October 2022
Team ID	PNT2022TMID46346
Project Name	Industry-Specific Intelligent Fire Management System
Maximum Marks	4 Marks

IOT based Fire Management System Architecture:

Industry-Specific Intelligent Fire Management System is a process involve – monitoring and controlling of fire in workplace.

- Detecting the fire event using different sensors by integrating various parameters like temperature, humidity, gas etc.,

- Registering the users and fire controlling service in the cloud database

- Once the fire detects, the alert will send to all user through cloud service

- Indicating the fire in workplace by using buzzer and controlled by using fire extinguisher and water sprinklers

- Provide the safe evacuation exit path

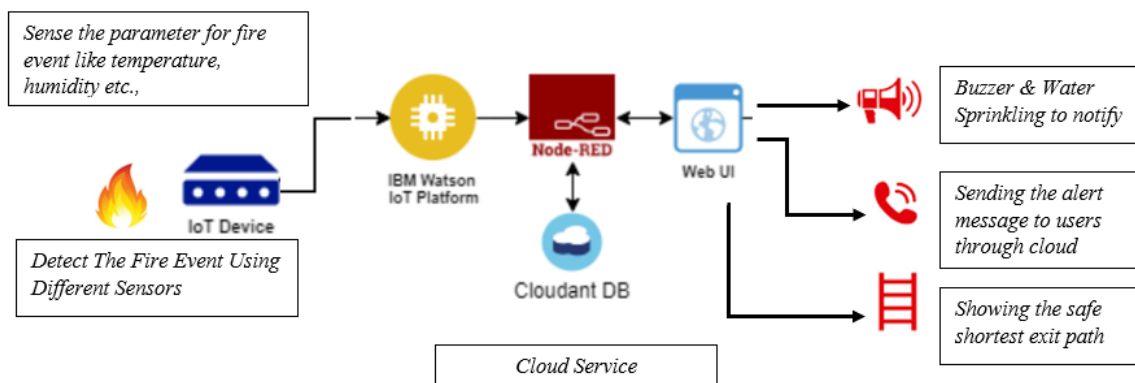**IOT based Fire Management System Architecture Diagram:**

Figure 1: Architecture and data flow of the IOT based Fire Management System

Reference: Huixian Jiang, "Mobile Fire Evacuation System for Large Public Building Based on Artificial Intelligence and IoT", IEEE Access, 2019