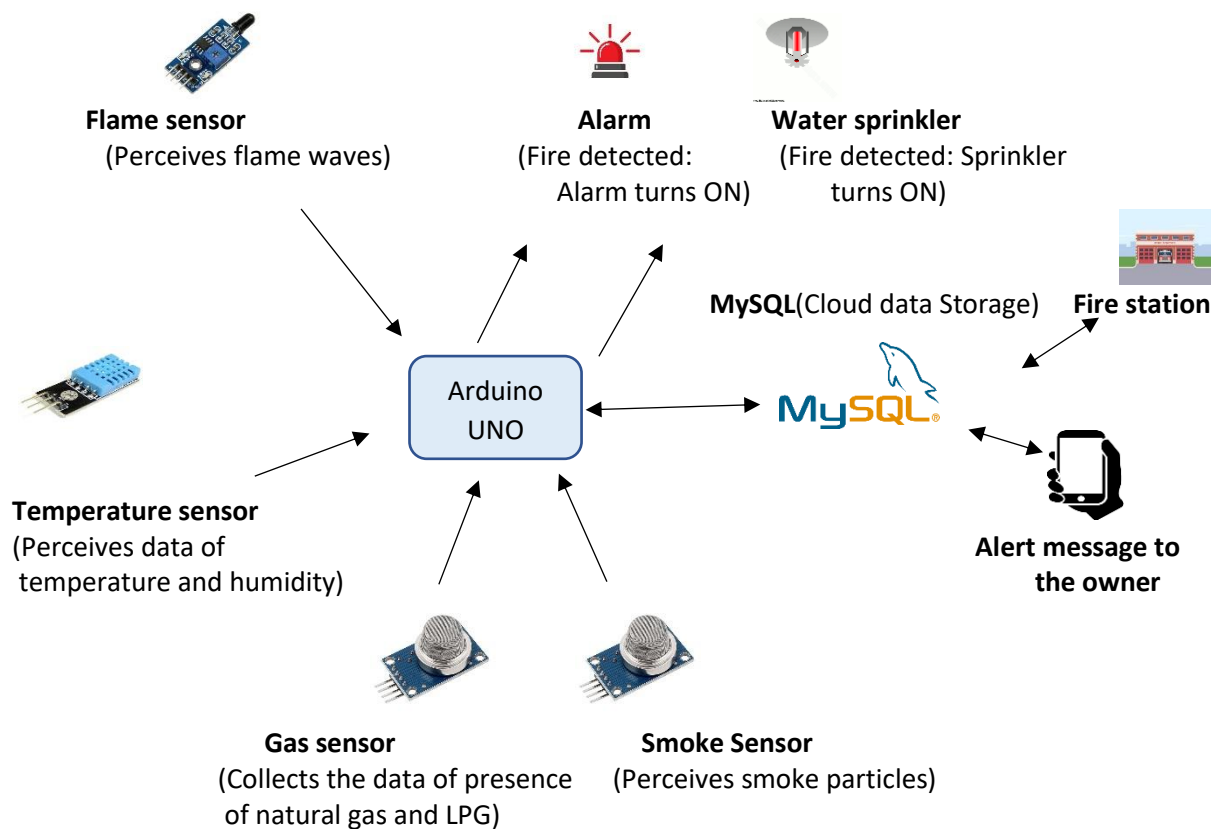


## Project Design Phase-I

### Solution Architecture

|               |  |
|---------------|--|
| Date          | 16 OCTOBER 2022                                      |
| Team ID       | PNT2022TMID14349                                     |
| Project Name  | Industry-specific intelligent fire management system |
| Maximum Marks | 4 Marks  |

#### Solution Architecture Diagram:



- In this system, four sensors are used in monitoring the environment.
- The sensors are flame sensor, temperature sensor, gas sensor and smoke sensor .
- If the fire is detected then the flame sensor gives signal to the Arduino UNO and from the Arduino UNO, the Alarm and the water sprinkler gets triggered .
- The alarm is used to alert the people and the sprinkler sprays water in the area where the presence of fire is detected and shuts the fire down and this reduce the risk of losses and also reduces the risk of major hazard.
- Then the data is sent to the cloud.
- From the cloud the Fire station and the authority receives the information immediately.