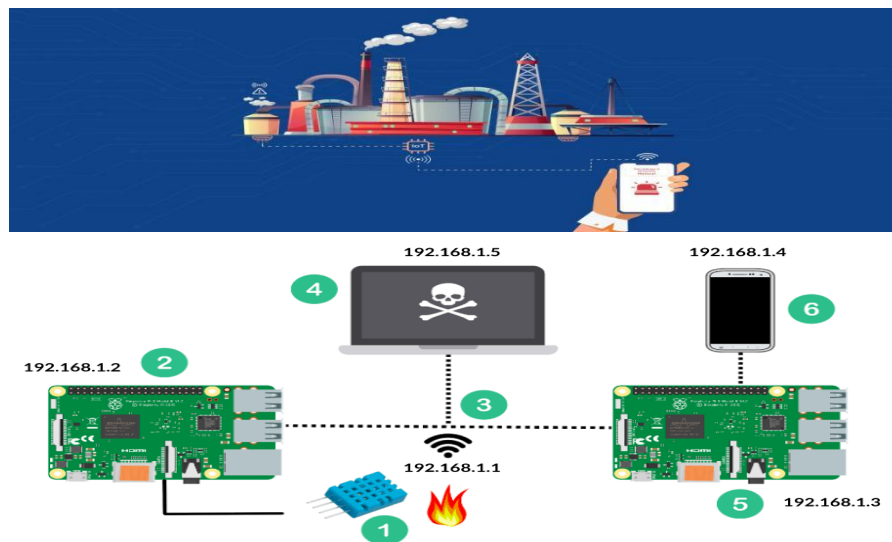


Project Design Phase-II Technology Stack

Date	14 October 2022
Team ID	PNT2022TMID33446
Project Name	Project - Gas Leakage Monitoring and Alerting System using IOT
Maximum Marks	4 Marks

Technical Architecture:



Guidelines:

1. Include sensor to detect gas leakage.
2. Provide light and sound alerting gas leakage.
3. Using Internet of Things, alerting gas leakage in mobile phone.
4. By using Internet of Things, wifi will used for alerting worker through their mobile devices.

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Using WiFi and its IP address it will alert the workers.	Internet of Things

2.	Application Logic-1	Sensor will detect gas leakage	MQ-4 sensor.
3.	Application Logic-2	Detecting room temperature, if temperature is above specified temperature, it will alert workers.	Python
4.	Application Logic-3	If temperature is above specified temperature, it will use Arduino processor to alert workers.	Arduino

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	MQ-4 Sensor, WiFi, Arduino processor chips.	Internet of Things.
2.	Security Implementations	MQ-4 Sensor, Alerting device which consists of speaker and light.	Internet of Things.
3.	Scalable Architecture	Detecting room temperature, if temperature is above specified temperature, it will alert workers.	Python
4.	Availability	Use of WiFi IP address	Wireless Network
5.	Performance	Performance is efficient	Internet of Things