## Project Design Phase-II Solution Requirements (Functional & Non-functional)

Date	16 October 2022
Team ID	PNT2022TMID06118
Project Name	Project - GAS LEAKAGE MONITORING AND
	ALERTING SYSTEM
Maximum Marks	4 Marks

## **Functional Requirements:**

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Gas Detection	Gas Detection through Gas sensors
FR-2	Notification	Notification via Email
		Notification via OTP
		Notification via Mobile call
		Notification via Message
FR-3	Taking Precaution steps	Automatically turn off the gas knob
FR-4	Rising Alarm	Rising alarm using the buzzer.
FR-5	Safety of people	By rising alarm and avoiding disasters
FR-6	Easy to implement	IOT application with Arduino-UNO

## **Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Can detect the release of gases
		Rises alarm
		Taking precaution steps
		Sending notifications
NFR-2	Security	Ensure the safety of people.
NFR-3	Reliability	Can detect the gases accurately.
NFR-4	Performance	Can detect the release of gases and
		automatically takes the precaution steps.
NFR-5	Availability	Can be used anywhere where the different
		gases are involved in work.
NFR-6	Scalability	Can detect the different types of gases even it is
		non-toxic.