

## Project Design Phase-II

### Solution Requirements (Functional & Non-functional)

Date	31October 2022
Team ID	PNT2022TMID47518
Project Name	Project – Gas Leakage Monitoring and alerting system for industries
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	Receiving in the user end	Gas level details will be displayed through LCD an alarm will be beeps on the buzzer .
FR-2	Monitoring	Level of gas is monitored using sensor and if there is any leakage, alert can be sent through messages and with a buzzer sound.
FR-3	Sensitivity	Specialised of the gas in all similar systems.
FR-4	User Interface	Emergency calls and messages are with application system.

#### Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Set of techniques for design and development are implemented.
NFR-2	<b>Security</b>	Strategically improvement of the process ensures less risk.
NFR-3	<b>Reliability</b>	Can be able to provide accurate values. It might have a capacity to recognize the smoke.
NFR-4	<b>Performance</b>	Arduino response time will be fast and detect the smoke is quickly.
NFR-5	<b>Availability</b>	Daily used for day and night.
NFR-6	<b>Scalability</b>	Probability of performance is high.