

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	31 October 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 and 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	Usability	Set of techniques for design and development are implemented.
NFR-2	Security	Strategically improvement of the process ensures less risk.
NFR-3	Reliability	Can be able to provide accurate values. It might have a capacity to recognize the smoke.
NFR-4	Performance	Arduino response time will be fast and detect the smoke quickly.
NFR-5	Availability	Daily used for day and night.
NFR-6	Scalability	Probability of performance is high.