

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

Date	15 October 2022
Team ID	PNT2022TMID13514
Project Name	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	Concern	It checks impurities simultaneously Gives alert message if gas leakage detected
FR-2	User Notification	Alert notification via message Alert notification via call
FR-3	Security	Safety is a key. Because, safety equipments effectively guard against toxic gases
FR-4	Accuracy	In emergency situation, accuracy should not falter. So, It should notify employees.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Easily handled in industries and semiconductor devices.
NFR-2	Security	Personal protective equipment enclosing the testing area so non-essential personnel cannot enter
NFR-3	Reliability	Reliable gas monitor will keep employees safe for long term.
NFR-4	Performance	Gas leakage detection Triggering real time alarms
NFR-5	Availability	System functionality available with all features and with all operations
NFR-6	Scalability	This product is needed for more users like industries and organizations.