

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

Date	28 OCTOBER
Team ID	PNT2022TMID17768
Project Name	Project - GAS LEAKAGE MONITERING 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	User Registration	Registration through Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Detect the gas	Detect the gas level and give Alert
FR-4	Avoid the Accident	It will monitor the gas level and Temperature for avoiding the accident
FR-5	Alerting System	Buzzer will alert when the gas level is high
FR-6	Monitering	It will monitor the whole system

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The purpose of this system is to detect gas leakage, neutralize it, and prevent the explosion
NFR-2	Security	Prevent the high risk of gas explosions and affecting any casualties within and outside the premises.
NFR-3	Reliability	Most leak detectors are primarily responsible for locating the leak, determining the extent or rate of leakage, and keeping track of increases or decreases in leakage
NFR-4	Performance	Having the appliances that require gas checked regularly by a certified professional will help maintain the strength of the system and reduce the chance of leaks

NFR-5	Availability	Gas leaks can be hazardous to health as well as the environment.
NFR-6	Scalability	The system is designed so that it can with stand large number of users at any given movement.