

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

Date	03October 2022
Team ID	PNT2022TMID32740
Project Name	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	Methodology	It is a well way to get rapid results in a short time.
FR-2	Impact	Sensor has excellent sensitivity combined with a quick fast response time , possible to get instantaneous results.
FR-3	sensitivity	Specialised of the gas in all similar systems
FR-4	WIFI -Module	Can communicate directly with industrial scientific, consumer technology that is web friendly with no use of shields or any peripherals.
FR-5	operation	The system be operated in android operating system.
FR-6	User Interface	Emergency call, message with application systems

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	It helps prevent the high risk of gas explosions
NFR-2	Security	The system should not display the homeowner personal information to anyone.
NFR-3	Reliability	Unsafe behaviour of personnel has the greatest impact on the probability of gas leakage.
NFR-4	Performance	Arduino response time will be fast.
NFR-5	Availability	The system should work 24 hours 7 days a week.
NFR-6	Scalability	The system interface should be easy and effective(user-friendly).