

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

Date	08 October 2022
Team ID	PNT2022TMID27405
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	User Registration	Registration through Form
FR-2	User Confirmation	Confirmation via Email
FR-3	User Access	Access the details through web application
FR-4	User Alert	Gets alert messages through SMS and also buzzer/alarm can alert the user.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The user must be able to use the device anywhere.
NFR-2	Security	Data stored in the sensor should be secured and the user details will be hidden from other parties.
NFR-3	Reliability	Data can be called up at any time and no data is discarded without the knowledge of the user.
NFR-4	Performance	No performance degradation with large amounts of data or parameters.
NFR-5	Availability	The system will be accessible to the users request at most of the time.
NFR-6	Scalability	The device must be able to measure conditions even in a large industry.