

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

Date	12 October 2022
Team ID	PNT2022TMID11052
Project Name	Project - Gas Leakage monitoring & 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 Requirements	Detection of gas leakage Automatically send the notification about the leakage to the customer via smartphone application
FR-1	User Registration	Registration through Form Registration through Gmail
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Product details	Online platform or by checking it in person
FR-4	Payment Options	Cash on Delivery Net Banking/UPI Credit/Debit/ATM Card
FR-5	Product Delivery and Installation	Door Step delivery Free Installation
FR-6	Product Feedback	Through Webpage Through Phone calls Through Google forms

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Have an easy-to-understand guidebook. The detector should be simpler to use The device is easy to use even by customers who are uneducated.
NFR-2	Security	If the customer feels some security measures are required, a conventional or biometric security system can be set up with a password that provides authorization which can be created according to the customer's specific requirements to improve protection.
NFR-3	Reliability	Hardware has to be checked and maintained regularly by trained maintenance professionals sent by the manufacturer as per the requirement of the customer. Periodic software updates are possible. Any system breakdown will result in an immediate alarm.
NFR-4	Performance	The detector must have a user-friendly interface and utilise the least amount of energy possible. It must be extremely effective and rapid in order to prevent casualties as soon as feasible.
NFR-5	Availability	All the features will be available when the user requires. It depends on the need of the farmer and the customization the user has done.
NFR-6	Scalability	The product has to cover all the space of land irrespective of the size or area of a farm field.

