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

Date	03 October 2022
Team ID	PNT2022TMID15063
Project Name	Project – 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
		Offline Registration
FR-2	User Confirmation	Confirmation via Email
		Confirmation via OTP
FR-3	User Authentication	User verification through valid User ID and
		password
FR-4	User Access	 Realtime Monitoring of Gas Leakage System,
		through web portal for Authorized Users.
FR-5	User Alert	 User receives an alert through SMS.
		 Turn on Alerting System in Industry.
FR-6	Review and Feedback	Receive Feedback from Users.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Easier Installation process and easy to use
NFR-2	Security	 Data transmission and handling through secured protocols. Credential encryption & Cloud security
NFR-3	Reliability	 Only authorized personnel have access to the system. Assured Data Security and Information conciseness. Longer Lifetime of Product/Service.
NFR-4	Performance	 High Accuracy of gas leakage detection in localized area. Faster Response to Gas Leakage Detection (SMS alert, valve closing).
NFR-5	Availability	 The user can access the System 24/7. Realtime monitoring system.
NFR-6	Scalability	 The system is scalable even in case of many gas sensors. Or in case of many supervisors.