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

Date	03 October 2022
Team ID	PNT2022TMID13412
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	User Registration	Registration through Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User dashboard	Can access the dashboard

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Gas detectors can be used to detect combustible, flammable and toxic gases, and oxygen depletion.
NFR-2	**Security**	An essential part of safety equipment, gas detectors can detect oxygen deficiency, explosive atmospheres and multiple poisonous gases, thus removing threats from hazardous and potentially lethal environments.
NFR-3	**Reliability**	This project introduces a reliable, robust and instant-response solution for such a problem.
NFR-4	**Performance**	An IOT powered gas monitoring solutions helps to gain alerts through gas detection sensors about gas accumulation and leaks
NFR-5	**Availability**	This data is made available at real time feeds over the cloud.
NFR-6	**Scalability**	This article introduces us to how a gas leakage detection system helps, its scope of growth, benefits, and main technologies used.