

SOLUTIONAL REQUIREMENTS (FUNCTIONAL/NON-FUNCTIONAL)

DATE	NOV 10 TH 2022
TEAM ID	PTN2022TMID21083
TOPIC	GAS LEAKAGE MONITORING AND DETECTION FOR INDUSTRIES

FUNCTIONAL REQUIREMENTS:

S.NO	Functional requirement	Sub-requirements
1	Data fetch	The details of the gas leak will be transferred to the IoT system
2	Monitoring	The level of gas is monitored by the level sensor and if there is any leakage, an alert can be sent through messages and with a buzzer sound
3	User performance	When the user gets notified, they could take precautionary steps like turning the gas off, turning on the exhaust fan/sprinkler, and avoiding serious accidents.

NON-FUNCTIONAL REQUIREMENTS:

S.NO	NON-FUNCTIONAL	DESCRIPTION
1	Usability	A set of techniques for design and development are implemented
2	Security	Strategical improvement of the process ensures less risk
3	Performance	Sprinklers and exhaust fans are used in case of emergency
4	Availability	It can be used every day; it includes day and night.