

**Project Design Phase-II**  
**Gas leakage monitoring and alerting system (Functional & Non-functional)**

Date	03 October 2022
Team ID	PNT2022TMID36762
Project Name	Gas leakage monitoring and alerting system
Maximum Marks	4 Marks

**Functional Requirements:**

FR No.	Functional Requirement (Epic)	Sub Requirement (Story)	Acceptance criteria
FR-1	Registration	<ul style="list-style-type: none"><li>As a user, I can register for the application through website</li><li>User can register for the application through E-mail</li></ul>	to monitor the measure of water and air quality
FR-2	Reception	<ul style="list-style-type: none"><li>As a user, I receive the gas level data as a message in mobile</li></ul>	By updating the user frequently, the problem will be detected soon.
FR-3	Convenience	<ul style="list-style-type: none"><li>As a user, through message user can easily get level</li></ul>	In case of gas leakage, it can directly send notifications to nearby police station and hospital
FR-5	Performance	<ul style="list-style-type: none"><li>As a user, I get notified and could turn on the exhaust fan or sprinkler</li></ul>	The gas gets dissipated and keep the user away from danger
FR-6	Confirmation	<ul style="list-style-type: none"><li>As a user, I shall be able to turn off the electricity</li><li>As a user, I shall be able to make calls to 101 and 108</li></ul>	This prevents any damage and explosion

**Non-functional Requirements:**

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	It protects the employees and updates regularly
NFR-2	Security	With the help of emergency alert, we can protect the humans as well as the properties
NFR-3	Reliability	It measures the gas level and gives accurate results
NFR-4	Availability	These sensors are mainly used in oil, gas, mining, chemical and semiconductor manufacturing industries
NFR-5	Scalability	Sensors can be replaced every time it fails

