

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

Date	03 October 2022
Team ID	PNT2022TMID37136
Project Name	Project - Gas Leakage Monitoring And Alerting System
Maximum Marks	4 Marks

**Functional Requirements:**

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	Advanced Search Capabilities	Personal and Safety sensor
FR-4	Deliveries	Gases in stock and ship Worl Wide also by freight if required
FR-5	Standard Regulators	Fixed flow - FF-100-0.5-BR Fine control- Y114740 Demand flow - ODFR-1001
FR-6	Applications	Harmful gas detection, fire hazard prevention ,oxygen level measurement

## Non-functional Requirements:

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Detect the concentration of the gases present in atmosphere
NFR-2	<b>Security</b>	Get immediate gas alert to the people
NFR-3	<b>Reliability</b>	Typically listed with plus or minus 5 percent with intervals of 95 percent
NFR-4	<b>Performance</b>	Measure gas concentration by absorbing infrared radiation at specific wavelengths as the radiation passes the gas
NFR-5	<b>Availability</b>	Detection of combustible, flammable and poisonous gases and for loss of oxygen
NFR-6	<b>Scalability</b>	400 different receptors with smell approx., trillion odors in the atmosphere