

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

Date	11 October 2022
Team ID	PNT2022TMID11027
Project Name	Project-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 Requirements	Static signboards will be replaced with smart linked sign boards that meet all criteria.
FR-2	User Registration	Manual Registration Through a Website or Gmail
FR-3	User Confirmation	Phone Confirmation Email confirmation OTP authentication
FR-4	Payments options	Bank Transfer
FR-5	Product Delivery and installation	The installation fee will be determined by the length of the road.
FR-6	Product Feedback	Through a website via Gmail

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Have clear product instructions and a selfexplanatory product that is simple to use.
NFR-2	<b>Security</b>	Cloud data must be contained within the network, collapsing to be Real-time avoidance should be avoided, and the board should be constantly monitored.
NFR-3	<b>Reliability</b>	Hardware is frequently tested.
NFR-4	<b>Performance</b>	The smart board must provide a better user experience and deliver accuracy output.
NFR-5	<b>Availability</b>	All of the functions that the user demands will be provided, depending on the needs of the consumer.
NFR-6	<b>Scalability</b>	The model could be scaled according to the environment about to be monitored and alerted.