

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

|               |   |
|---------------|---|
| Date          | 10 October 2022   |
| Team ID       | PNT2022TMID15437  |
| Project Name  | Gas Leakage Monitoring and Alerting System for industries |
| 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<br>Online Payment for the service                         |
| FR-2   | User Access                   | Access the details using web browser<br>Access the details using mobile application |
| FR-3   | User alert                    | Gets alert as an SMS message<br>Gets alert alarm in the working area.               |

**Non-Functional Requirements:**

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

| NFR No. | Non-Functional Requirement | Description   |
|---------|----------------------------|---|
| NFR-1   | Usability                  | The device must be usable by the customer anywhere                                |
| NFR-2   | Reliability                | Data can be retrieved anytime and no data is discarded without customer knowledge |
| NFR-3   | Performance                | No performance delay in case of large number of data or parameters                |
| NFR-4   | Scalability                | Device must be capable of measuring conditions even in large industry             |
| NFR-5   | Security                   | Data from the sensor are stored securely and away from other data                 |