**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

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| Date | 23 October 2022 |
| Team ID | PNT2022TMID24222 |
| 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.

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| FR No. | Non-Functional Requirement | Description |
| NFR-1 | Usability | The device must be usable by the customer anywhere |
| NFR-2 | Security | Data from the sensor are stored securely and away from other data |
| NFR-3 | Reliability | Data can be retrieved anytime and no data is discarded without customer parameters |
| NFR-4 | Performance | No performance delay in case of large number of data or more parameters |
| NFR-5 | Availability | The device doesn’t fail even under harsh condition. Device continues to send parameter, even after an alter situation. |

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| FR No. | Functional Requirement (Epic) | Sub Requirement (Story / Sub-Task) |
| FR-1 | User Registration | Registration through Form  Registration through Gmail  Online Payment for the service |
| FR-2 | User Confirmation | Access the details using web browser  Access the details using mobile application |
| FR-3 | User alert | Gets alert as an SMS message Gets alert alarm in the working area. |

**Non-functional Requirements:**

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

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| --- | --- | --- |
| NFR-6 | Scalability | Device must be capable of measuring condition even in a large industry. |