**Project Design Phase-II**

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

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| Date | 08 October 2022 |
| Team ID | PNT2022TMID54092 |
| 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.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | User Registration | Registration through Form |
| FR-2 | User Confirmation | Confirmation via Email |
| FR-3 | User Access | Access the details through web application |
| FR-4 | User Alert | Gets alert messages through SMS and also buzzer/alarm can alert the user. |

**Non-functional Requirements:**

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

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| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | The user must be able to use the device anywhere. |
| NFR-2 | **Security** | Data stored in the sensor should be secured and the user details will be hidden from other parties. |
| NFR-3 | **Reliability** | Data can be called up at any time and no data is discarded without the knowledge of the user. |
| NFR-4 | **Performance** | No performance degradation with large amounts of  data or parameters. |
| NFR-5 | **Availability** | The system will be accessible to the users request at most of the time. |
| NFR-6 | **Scalability** | The device must be able to measure conditions even in a large industry. |