**Project Design Phase-II**

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

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| Date | 03 November 2022 |
| Team ID | PNT2022TMID25975 |
| Project Name | Project - Gas Leakage monitoring & 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  Registration through G-mail  Registration through Linked In |
| FR-2 | User Confirmation | Confirmation via Email  Confirmation via OTP |
| FR-3 | Data fetch | The details of the gas leaked will be transferred to IOT system. |
| FR-4 | Methodology | It is a well way to get rapid results in a short time. |
| FR-5 | Receiving in the user end | Gas level details will be displayed through LCD, an alarm will be beeps and the same data will be sent to the user mobile or PC. |
| FR-6 | Transferring to user | IOT, WIFI module. |
| FR-7 | sensitivity | Specialized of the gas in all similar systems |
| FR-8 | User Interface and operation | The system be operated in android operating system. Emergency call, message with application systems. |

**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** | Prevent gas leakage and also detect it. |
| NFR-2 | **Security** | Info of user should not be shared and advancement can be done to get avoided from risk. |
| NFR-3 | **Reliability** | Accurate and can suit and adapt any environment. |
| NFR-4 | **Performance** | Response is faster and detect smaller leaks. |
| NFR-5 | **Availability** | Should be available around the clock. |
| NFR-6 | **Scalability** | Good performance and easy to use. |