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| Date | 14 NOVEMBER 2022 |
| Team ID | PNT2022TMID48655 |
| 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 the Arduino code view. |
| FR-2 | User Confirmation | Confirmation via Message for alerting. |
| FR-3 | User verification | The user shall be able to receive warning message as quickly as possible. |
| FR-4 | User understanding | User can monitor the level of gas with help of the data. If there is an increase in gas level then the alerts will be given. |

**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 system interface should be easy and effective. (User-friendly) |
| NFR-2 | **Security** | The communication between the Arduino and the GLDS should be secure by encryption. |
| NFR-3 | **Reliability** | It will provide most accurate information and have Capacity to recognize the hazardous gas which is true or not. |
| NFR-4 | **Performance** | The system should response immediately to any leakage situation. |
| NFR-5 | **Availability** | The system should work 24 hours 7 days a week. |
| NFR-6 | **Scalability** | The system should be operated in machine coding in Arduino |