**Project Design Phase-II**

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

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| Date | 03 October 2022 |
| Team ID | PNT2022TMID50840 |
| Project Name | Gas leakage monitoring and alerting system |
| 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 Gmail  Registration through LinkedIN |
| FR-2 | User Confirmation | Confirmation via Email Confirmation via OTP |
| FR-3 |  |  |
| FR-4 |  |  |
|  |  |  |
|  |  |  |

**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** | Detect combustible, flammable and toxic gases, and oxygen depletion. |
| NFR-2 | **Security** | It control gas leakage level. So it is more secure |
| NFR-3 | **Reliability** | This system triggers LED and buzzer to alert people when LPG leakage is detected..This system is very simple yet reliable |
| NFR-4 | **Performance** | When if gas leaked .sensor was sensing then buzzer will be ringed. |
| NFR-5 | **Availability** | House, industries, hotel etc. |
| NFR-6 | **Scalability** | This system is low cost scalability. |