

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.

| 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 | | |
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Non-functional Requirements:

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

| 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. |