**Project Design Phase-II**

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

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| Date | 13 October 2022 |
| Team ID | PNT2022TMID10221 |
| Project Name | Hazardous Area Monitoring for Industrial Plant Powered by IoT |
| 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  Online Payment for the service |
| FR-2 | User Access | Access the details using web browser  Access the details using mobile application |
| FR-3 | User alert | Gets alert as an SMS message  Gets alert alarm in the working area. |

**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 device must be usable by the customer anywhere |
| NFR-2 | **Security** | Data from the sensors are stored securely and away from other data |
| NFR-3 | **Reliability** | Data can be retrieved anytime and no data is discarded without customer knowledge |
| NFR-4 | **Performance** | No performance delay in case of large number of data or more parameters |
| NFR-5 | **Availability** | The device doesn’t fail even under harsh conditions. Device continues to send parameters, even after an alert situation. |
| NFR-6 | **Scalability** | Device must be capable of measuring conditions even in a larger industry |