## Project Design Phase-II
## Solution Requirements (Functional & Non-functional)

| Date | 13 October 2022 |
|---|---|
| Team ID | PNT2022TMID21245 |
| Project Name | Project - Industry-specific intelligent fire management 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 | Admin should be able to login to his IBM cloud through his root account detail. |
| FR-2 | Displaying sensor details | Data collected from sensors should be displayed in form of charts(smoke level, co level, Temperature level). |
| FR-3 | Sending Notifications | If the sensor data crosses the pre-defined threshold. then warning should be sent to Admin(via e-mail). |
| FR-4 | Switching on Alarms and sprinklers | Once notification is sent, the system should switch on alarms and sprinklers to warn the Industry workers. |

**Non-functional Requirements:**

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

| FR No. | Non-Functional Requirement | Description |
|---|---|---|
| NFR-1 | **Usability** | The system should be easy for the customers to use. |
| NFR-2 | **Security** | No should have access to modify the data sent from the sensors. |
| NFR-3 | **Reliability** | The system should be made fail-safe operation using redundancy. If one module fails then the parallel module should take over the operation. |
| NFR-4 | **Performance** | All the modules should work without any connection interruption. Quickly Responsive. |
| NFR-5 | **Availability** | The system should be continuously monitoring the environment 24/7. |
| NFR-6 | **Scalability** | The system should have the capacity to accommodate a greater amount of usage. |