**Project Design Phase-II**

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

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| Date | 16 October 2022 |
| Team ID | PNT2022TMID35428 |
| Project Name | Project – Industry- Specific Intelligent Fire Management 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 | Emergency alert | SMS-based warning  Alert using visible and audible alarms |
| FR-2 | Sending a notification to the fire department automatically | Message-based notification  Emergency call to alert the party |
| FR-3 | Control functions | When duct-mounted smoke detectors are activated, heating, ventilation, and air conditioning systems are shut down to prevent smoke transfer to unaffected areas of the building. |
| FR-4 | Location notification | Fire department must be notified of the location of the fire via an alarm. |
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**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** | Consistency in feature set. Maintenance convenience and system longevity |
| NFR-2 | **Security** | Even in the face of attacks, the programme is resiliant. |
| NFR-3 | **Reliability** | Quicker response timer |
| NFR-4 | **Performance** | There are less fire alarms and excellent throughput/efficiency. |
| NFR-5 | **Availability** | The system's suitability for usage with other kinds of emergency communication |
| NFR-6 | **Scalability** | To adapt to expected changes in usage and occupancy |