<h1 style="text-align:center">Project Design Phase-II<br>Solution Requirements (Functional & Non-functional)</h1>

| Date | 03 October 2022 |
|---|---|
| Team ID | PNT2022TMID48307 |
| Project Name | Project – Industry specific intelligence 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 monitoring | The automatic nature of fire alarm monitoring means valuable time isn't lost between the start of the emergency and first responders arriving on the scene |
| FR-2 | User Detecting | TEMPERATURE:It is designed to measure the degree of hotness or coolness in an environment<br>GAS: It used to detect explosive gasses and measure gas concentration<br>FLAMES: It is a sensor designed to detect and respond to the presence of a flame |
| FR-3 | User solving | We use the IoT can enhance the system with various other device and smart systems like sending the message to recover the critical conditions |

**Non-functional Requirements:**

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

| FR No. | Non-Functional Requirement | Description |
|---|---|---|
| NFR-1 | **Usability** | Fire alarm system works to protect your property and its occupants from the dangers of fire are by detecting fire, alerting occupants, managing risk and notifying the fire department |
| NFR-2 | **Security** | Fire safety is the set of practices intended to reduce the destruction caused by fire. Fire safety measures include those that are intended to prevent the ignition of an uncontrolled fire and those that are used to limit the development and effects of a fire after its starts |

| NFR-3 | **Reliability** | Reliable system performance could be narrowly defined in terms of failure on demand. This would ignore unwanted or false alarm as a measure of reliability |
|---|---|---|
| NFR-4 | **Performance** | Fire safety principles for preventing fire events and managing their impact, common principles are prevention, detection, communication, occupants protection, containment and extinguishment |
| NFR-5 | **Availability** | Install and maintain fire alarm. Place fire alarm on our factory or industry. Test fire alarm once a month |
| NFR-6 | **Scalability** | Business efficient for customized fire detection with significant cost reductions |