

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

Date	12th November 2022
Team ID	PNT2022TMID54479
Project Name	IoT Based Industry-specific intelligent fire management system
Maximum Marks	4 Marks

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

<b>FR No.</b>	<b>Functional Requirement (Epic)</b>	<b>Sub Requirement (Story / Sub-Task)</b>
FR-1	User visibility	Emergency alerts via Fast SMS and through internet
FR-2	User reception	Notifications will be sent to the organizations if their building is sensed with gas or fire inside.
FR-3	User Understanding	Based on the values collected by the device, The user will understand that if they receive any SMS, then their property is in danger.

FR-4	User action	If anything happens to the property, organization needs to take appropriate measures to make their property safe as soon as the alert received.
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#### **Non-functional Requirements:**

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

<b>FR No.</b>	<b>Non-Functional Requirement</b>	<b>Description</b>
NFR-1	<b>Usability</b>	It is required to preclude property before being in fire, an autonomous real-time monitoring system is necessary for every property in today's world.
NFR-2	<b>Security</b>	It is supposed to be designed to fix without any problems. It would be fixed at a position in the property by the time and it should give assurance that it works all the time.
NFR-3	<b>Reliability</b>	It should be actively monitoring the property and should send information to the organization all the time. It must recognize the danger caused to the property immediately.
NFR-4	<b>Performance</b>	Notification will be sent to the parents if the property is sensed with gas or flame.

NFR-5	<b>Availability</b>	It must be active for all day and remain active at least a week for a single charge. So, it would be useful for the Organization.
NFR-6	<b>Scalability</b>	This device ought to have the option to effortlessly change overhaul concurring to change and need in requirements.