

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

Date	12 October 2022
Team ID	PNT2022TMID24952
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	Emergency alert	Alert through SMS. Alert through audible and visible alarms.
FR-2	Automatic transmission of notification to fire department	Notification through message. Notification through emergency call.
FR-3	Control functions	Activation of duct mounted smoke mounted smoke detector will shut down the heating ventilation and air conditioning equipment to prevent the migration of smoke to non-affected areas of the building.
FR-4	Location notification	Location of fire must be sent to fire department through alarm.

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Feature set consistency .Ease of maintenance and longevity of the system
NFR-2	<b>Security</b>	The software remains resilient in the face of attacks
NFR-3	<b>Reliability</b>	Response timer will be faster
NFR-4	<b>Performance</b>	Throughput/efficiency is high, fewer fire alarms
NFR-5	<b>Availability</b>	Ability to use the system for other types of emergency communication
NFR-6	<b>Scalability</b>	To accommodate future changes in use and occupancy