

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

Date	16 October 2022
Team ID	PNT2022TMID22485
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	The heating, ventilation, and air conditioning equipment will be turned off when the duct-mounted smoke detector is activated, preventing smoke from spreading to unaffected areas of the building.
FR-4	Location notification	The fire's location must be communicated to the fire department via alarm.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Consistency in the feature set, ease of maintenance, and system functionality
NFR-2	Security	In the face of attacks, the software maintains its resilience.
NFR-3	Reliability	The response timer will speed up.
NFR-4	Performance	High throughput and efficiency, fewer fire alarms
NFR-5	Availability	ability to utilize the system for additional emergency communication methods
NFR-6	Scalability	to accommodate upcoming shifts in occupancy and use