

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

Date	26 October 2022
Team ID	PNT2022TMID53651
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	Sensing	Fire breakouts are sensed by smoke detectors. Gas leakages are sensed by gas sensors.
FR-2	Alert	Buzzing of vital alarms.
FR-3	Notification	Transmitting SMS with location to the Fire station. Transmitting SMS to the concerned authorities.
FR-4	Actuation	Turning ON exhaust fans. Activating sprinklers.
FR-5	Automation	Activation of the system immediately in case of fire breakouts

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Ease of usage and durability of the system.
NFR-2	Security	Software being prone to attacks is low. Hence it proves to be secured.
NFR-3	Reliability	It deals with high accuracy.
NFR-4	Performance	Performance is enhanced with faster response.
NFR-5	Availability	This system can be implemented in institutions, restaurants, schools, offices and other public places.
NFR-6	Scalability	It can be upgraded regularly with modifications for various requirements.