

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	13 October 2022
Team ID	PNT2022TMID13566
Project Name	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	User visibility	Emergency alerts via Fast SMS.
FR-2	User reception	The data like amount of gas levels, smoke content and temperature are received via SMS.
FR-3	User Understanding	Based on the data, the user understands that if any of the data is above the threshold value, then there is a fire burst.
FR-4	User action	In case of fire bursts, the user needs to take actions like find the best escape route, evacuate the workers and take necessary actions to control the fire.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	It ought to have the option to caution inhabitants of the structure the utilization of every perceptible and apparent alert.
NFR-2	Security	It ought to be utilized to guarantee the insurance of both important properties, as well as human existence.
NFR-3	Reliability	It might have a capacity to recognize the smoke accurately and doesn't give a false caution or signal.
NFR-4	Performance	It ought to have Programmed fire sprinklers combined with identification which distinguishes the flames, yet in addition smother the flames in the underlying stage itself.
NFR-5	Availability	It could be accessible for day in and day out hours so it tends to be useful for individuals.
NFR-6	Scalability	The sensors and boards utilized in this framework ought to have the option to effortlessly change overhaul concurring to change and need in requirements