

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	03 October 2022
Team ID	PNT2022TMID35665
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	Objective	Detection of fire and prevention of spreading fire by sprinkling water or turning on the exhaust fan and sending SMS to the authorized person.
FR-2	Focus	To alert the authorized person immediately if any fire detected.
FR-3	Features	Fire can be detected by flame, gas, temperature sensors. It updates the sensors parameters in web application.
FR-4	Essentiality	To prevent the industry workers from being exposed to fire.
FR-5	Location sharing	Location is sent to the web application through GPS module.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Easy to learn and efficient application.
NFR-2	Security	Software is protected from unauthorized access.
NFR-3	Reliability	The system produces accurate alert message as per the sensors value and given threshold value
NFR-4	Performance	Website will be loaded within 2 seconds on clicking refresh button.
NFR-5	Availability	The application can be accessed at anytime and anywhere.
NFR-6	Scalability	The system can be scaled according to the demand of the industries and a step for safety measurement