

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

Date	23 October 2022
Team ID	PNT2022TMID19220
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	User Registration	<ul style="list-style-type: none">❖ Registration through Form❖ Registration through Gmail❖ Registration through LinkedIn
FR-2	User Confirmation	<ul style="list-style-type: none">❖ Confirmation via Email❖ Confirmation via OTP
FR-3	User Authentication	<ul style="list-style-type: none">❖ User verification through valid User ID and password.
FR-4	Fire Monitoring	<ul style="list-style-type: none">❖ In industry, sensors such as temperature sensors, flame sensors, etc. are used to monitor fire detection.
FR-5	User Alert	<ul style="list-style-type: none">❖ User receives an alert through SMS.❖ Turn on Alarm System in Industry.
FR-6	Feedback	<ul style="list-style-type: none">❖ Get feedback from users.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	<ul style="list-style-type: none">❖ Simple, affordable, and convenient.❖ Language barriers and localization requirements are among the requirements for usability.❖ Efficiency of use can be used to evaluate usability.
NFR-2	Security	<ul style="list-style-type: none">❖ Data management and transmission using secure protocols.❖ Data security and encryption.
NFR-3	Reliability	<ul style="list-style-type: none">❖ It might be able to precisely identify the smoke and avoid issuing an erroneous alert or warning.
NFR-4	Performance	<ul style="list-style-type: none">❖ For customers who browse the website via a VoLTE mobile connection and Sensors preserve recordings and send them to the cloud, the front-page load time cannot exceed two seconds.

NFR-5	Availability	<ul style="list-style-type: none"> ❖ Users have 24/7 access to the system. ❖ real-time monitoring system.
NFR-6	Scalability	<ul style="list-style-type: none"> ❖ The system is expandable with many sensors or with many bosses.