

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

Date	22 October 2022
Team ID	PNT2022TMID32813
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	Registration through Form Registration through Gmail Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Login and User Access	Login through website or App using the respective username and password and Access the app requirements
FR-4	Fire Detection Monitoring	In Industry we monitor the fire detection using sensors like temperature sensor, flame sensor etc.
FR-5	Intimating fire in industry	In case, fire occurs in industry we intimate the message through mobile application
FR-6	Solution and Data Sync	Data report should be generated and delivered to user for every 24 hours and API interface to increase to invoice system

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Simple,economic and easy to use. Usability requirements includes language barriers and localization tasks. Usability can be assessed by Efficiency of use.
NFR-2	Security	Access permissions for the particular system information may only be changed by the system's data administrator and The mobile application is highly secured .
NFR-3	Reliability	It is highly reliable and the web application runs accurately and The database update process must roll back all related updates when any update fails.
NFR-4	Performance	The front-page load time must be no more than 2 seconds for users that access the website using an VoLTE mobile connection and Sensors maintain the records and sends it to the cloud.
NFR-5	Availability	If fire occurs in industry we intimate the information to people through message. The sensors detects 24 hours and intimate quickly to the management ,fire station and New module deployment must not impact front page, product pages, and check out pages availability and mustn't take longer than one hour.

NFR-6	Scalability	We can increase scalability by adding memory, servers, or disk space and we can compress data and use optimizing algorithms
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