

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

Date	03 October 2022
Team ID	PNT2022TMID29660
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 Registration	Registration through Form Registration through Gmail
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Sensor function for framing system.	Measure the temperature, smoke level and humidity values.
FR-4	Manage modules	Manage roles for user. Manage user permission.
FR-5	Check whether details	Temperature details Smoke level details Humidity details
FR-6	Data Management	Manage the data of smoke conditions Manage the data of fire conditions

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">User friendly guidelines for users to avail the features.Most simplistic user interface for ease of use.
NFR-2	Security	<ul style="list-style-type: none">All the details about the user are protected from unauthorized access.Detection and identification of any malfunctions of sensors.
NFR-3	Reliability	<ul style="list-style-type: none">Implementing Mesh IoT Networks.Building a Multi-layered defence for IoT Networks.
NFR-4	Performance	<ul style="list-style-type: none">The use of modern technology solutions helps to achieve the maximum performances thus resulting in better quality and safer environment.

NFR-5	Availability	App and web availability on all platforms.
NFR-6	Scalability	We can expand the sensor networks without any tedious process and can be combined with modern sensors to improve efficiency and detection in the future.