Project Design Phase - II

Solution Requirements (Functional & Nonfunctional)

Date	3 NOVEMBER 2022
Team ID	PNT2022TMID43912
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 Requirements**	Workers and Product Protection Automatic Sprinkler System Monitors Smoke, Gas and Temperature
FR-2	**User Registration**	Manual Registration Registration through webpage Registration through Form Registration through Gmail
FR-3	**User Confirmation**	Confirmation via Phone Confirmation via EmailConfirmation via OTP
FR-4	**Payment Options**	Cash on DeliveryNet Banking/UPI Credit/Debit/ATM Card
FR-5	**Product Delivery andInstallation**	Door Step deliveryTake away Free Installation and 1 year Warranty
FR-6	**Product Feedback**	Through Webpage Through Phone calls Through Google forms

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Have a clear and self-explanatory manual. Easier to use. Easily accessible by everyone.
NFR-2	**Security**	Are inspected monthly by the Fire Alarm Technician. Inspected and tagged by a contractor annually.
NFR-3	**Reliability**	Hardware requires a regular checking and service ..Software may be updated periodically. Immediate alert is provided in case of any system failure.
NFR-4	**Performance**	The equipment must have a good user interfaceIt should have a minimal energy requirement It has to save lives of people and things
NFR-5	**Availability**	All the features will be available when the user requires. It depends on the need of the user and the customizationof the user has done.
NFR-6	**Scalability**	The product has to cover all the space of industry irrespective of the size or area.

Types of requirements

This is a recognized set of business analysis industry standards, offers the following classification of requirements.

Business requirements

These include high-level statements of goals, objectives, and needs. Business requirements do not include any details or specific features. They just state the problem andthe business objective to be achieved such as

- increased revenue/throughput/customer reach,
- reduced expenses/errors,
- improved customer service, etc.

Solution requirements

Solution requirements describe specific characteristics that a product must have to meet the needs of the stakeholders and the business itself. They fall into two large groups.

- **Functional requirements** define what a product must do, what its features and functions are.
- **Nonfunctional requirements** describe the general properties of a system. They are also known as *quality attributes*.