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

Date	14 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	❖ Registration through Form ❖ Registration through Gmail ❖ Registration through LinkedIN
FR-2	User Confirmation	❖ Confirmation via Email ❖ Confirmation via OTP
FR-3	User Authentication	❖ User verification through valid User ID and ❖ password.
FR-4	Fire Monitoring	❖ In industry, sensors such as temperature sensors, flame sensors, etc. are used to monitor fire detection.
FR-5	User Alert	❖ User receives an alert through SMS. ❖ Turn on Alarm System in Industry.
FR-6	Feedback	❖ 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**	❖ 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**	❖ Data management and transmission using secure protocols. ❖ Data security and encryption.
NFR-3	**Reliability**	❖ It might be able to precisely identify the smoke and avoid issuing an erroneous alert or warning.
NFR-4	**Performance**	❖ 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** | ❖ Users have 24/7 access to the system.
❖ real-time monitoring system. |
| NFR-6 | **Scalability** | ❖ The system is expandable with many sensors or with many bosses. |