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

Date	03 October 2022
Team ID	PNT2022TMID27908
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	Home Page	Description about the fire management system Guidelines to use the fire management system
FR-2	User Registration	Registration through website. Registration through application.
FR-3	User Confirmation	Confirmation via Email or OTP.
FR-4	User Login	Login through website or app. Access the app using respective username or password.
FR-5	User upload	Should be able to upload the data.
FR-6	System behavior	The sensors within the system are used for detection. The data gets updated in the cloud.
FR-7	System functionality	If flame is detected, sprinklers are turned on automatically. If gas is detected, exhaust fans are turned on automatically.
FR-8	Notification	The fire workstation and industry authorities are notified through message.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The system is user friendly and performs instant action which is important in case of fire management.
NFR-2	**Security**	The system is able to withstand any abnormal condition. The web application is more secure.
NFR-3	**Reliability**	The system is highly reliable. The notification is sent even in case of Wi-Fi

		malfunction.
NFR-4	**Performance**	The sprinklers and exhaust fan starts to function and the notification is sent immediately after fire detection .
NFR-5	**Availability**	Any industries who are in need of fire management system can access the system. The system works at full length.
NFR-6	**Scalability**	More technologies can be added. This system can be implemented in large scale.