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

Date	03 October 2022
Team ID	PNT2022TMID00383
Project Name	Project - Industry-specific intelligent fire management system – Oil and Gas Industry
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 Initialization	Each industry is registered in the database with all the details about it
FR-2	User Setup	The safety systems are installed in the companies after proper analysing
FR-3	User Training	Enhanced training and frequent drills would be conducted
FR-4	User Operation	During times of fire outbreak, it would be ensured that real time data would be communicated efficiently
FR-5	User Feedback	User feedback would be collected at frequent intervals for the upgradation of the system
FR-6	User Maintenance	System maintenance and bug fixing would be given high importance
FR-7	User Analysis	Analysis would be made on the finished process which would help the user to improve things from their side

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Though the project is involving advanced technologies like IoT and clouds, entire process is made simple though simple construction
NFR-2	**Security**	Cloud is made fully encrypted and the design is in such a way that only the company and the fire safety department can only access the data
NFR-3	**Reliability**	As immediate alerts are sent to the fire management systems, the fire would be immediately ceased. Also, our method of classifying industries based on vulnerability makes the system vulnerable
NFR-4	**Performance**	As advanced technology is used, there is a fully automated response which results in a quick response time
NFR-5	**Availability**	The model is designed considering it to be available in all the sectors of the oil and gas industry
NFR-6	**Scalability**	The model can be rightly scaled due to its simple construction and ease of flow of process