

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

Date	11 October 2022
Team ID	PNT2022TMID11542
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	Device configuration	New IoT device is created in the cloud The device is configured with the new cloud device
FR-2	Admin dashboard/admin panel	Data from sensors shown in pictorial form Controls are given in the button format
FR-3	Internet connectivity	Make sure fully-fledged internet connectivity is required for smooth communication between device and cloud
FR-4	SMS API	A external SMS API is required

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The dashboard can be used via a web browser It gives an abstract view in an easy-to-use form.
NFR-2	Security	As the data is sent through HTTPS the data is encrypted, so it is safe.
NFR-3	Reliability	The system is completely reliable as long as the internet and power is reliable
NFR-4	Performance	Only the data input and basic checking is done in smart device other heavy tasks are done in cloud.
NFR-5	Availability	The entire system is available for your service and for configuration.
NFR-6	Scalability	The smart system is scalable, we can add any number of devices as long as the IBM IoT platform supports it.