

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

Date	03 November 2022
Team ID	PNT2022TMID07157
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	<ul style="list-style-type: none"><li>• Registration through Form</li><li>• Registration through Gmail</li><li>• Registration through LinkedIn</li></ul>
FR-2	User Confirmation	<ul style="list-style-type: none"><li>• Confirmation via Email</li><li>• Confirmation via OTP</li></ul>
FR-3	User Login with respective ID	<ul style="list-style-type: none"><li>• Login through website</li><li>• App using the respective username and password</li></ul>
FR-4	User Access	<ul style="list-style-type: none"><li>• Access the app requirements</li></ul>
FR-5	User Upload	<ul style="list-style-type: none"><li>• User should be able to upload the data</li></ul>
FR-6	User Solution	<ul style="list-style-type: none"><li>• Data report should be generated</li><li>• Delivered to user for every 24 hours</li></ul>
FR-7	User Data Sync	<ul style="list-style-type: none"><li>• API interface to increase to invoice system</li></ul>
FR-8	User Guide	<ul style="list-style-type: none"><li>• Guides the basic steps of using the application</li></ul>

## Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	<ul style="list-style-type: none"><li>• Low perceived workload.</li><li>• Easy and simple UI.</li><li>• Usability requirements can consider language barriers and localization tasks.</li><li>• Usability can be assessed from the below functions.</li><li>• Efficiency of use.</li></ul>
NFR-2	<b>Security</b>	<ul style="list-style-type: none"><li>• Access permissions for the system information may only be changed by the system's data administrator.</li></ul>
NFR-3	<b>Reliability</b>	<ul style="list-style-type: none"><li>• The database update process must roll back all related updates when any update fails.</li></ul>
NFR-4	<b>Performance</b>	<ul style="list-style-type: none"><li>• The front-page load time must be no more than 2 seconds for users that access the website using an VoLTE mobile connection.</li></ul>
NFR-5	<b>Availability</b>	<ul style="list-style-type: none"><li>• The rest of the pages that may experience problems must display a notification with a timer showing when the system is going to be up again.</li><li>• New module deployment mustn't impact front page, product pages, and check out pages availability and mustn't take longer than one hour.</li></ul>
NFR-6	<b>Scalability</b>	<ul style="list-style-type: none"><li>• We can increase scalability by adding memory, servers, or disk space. On the other hand, we can compress data, use optimizing algorithms.</li><li>• The website attendance limit must be scalable enough to support 500,000 users at a time.</li></ul>