

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

Date	08 October 2022
Team ID	PNT2022TMID10277
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	User Registration	1. Registration through Gmail. 2. Registration through mobile number.
FR-2	User Confirmation	1. Confirmation via Email. 2. Confirmation via OTP.
FR-3	User access	1. Accepting all the terms and conditions. 2. Confirmation of recaptcha.
FR-4	User mode	Online
FR-5	User alert	Alert SMS to the registered mobile number if the measured value crosses the threshold value.

### Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	<ol style="list-style-type: none"><li>1. Easy to use.</li><li>2. Effective, Efficient, Engaging, Error tolerant.</li><li>3. Easy to learn.</li></ol>
NFR-2	<b>Security</b>	<ol style="list-style-type: none"><li>1. Accepting Terms and Conditions.</li><li>2. Confirmation via Email and OTP.</li><li>3. Confirmation via recaptcha.</li><li>4. Strong cryptography skills.</li><li>5. Software security architects also have experience with malware, intrusion detection and prevention and firewalls.</li></ol>
NFR-3	<b>Reliability</b>	<ol style="list-style-type: none"><li>1. Great user interface.</li><li>2. Software operating without failure while in a specified environment over a set duration of time.</li></ol>

NFR-6	<b>Scalability</b>	<ol style="list-style-type: none"> <li>1. Optimizing SQL queries and implementing indexing strategies.</li> <li>2. By building articles and authors into a single query, we can dramatically reduce the volume of queries we're running.</li> </ol>
NFR-4	<b>Performance</b>	Fast loading of the result time and high performance.
NFR-5	<b>Availability</b>	Easy installation.