

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

| | |
|---------------|--|
| Date | 29 October 2022 |
| Team ID | PNT2022TMID07779 |
| 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 | Registration through website or application Registration through Social medias (like Instagram, Facebook) Registration through LinkedIN |
| FR-2 | User Confirmation | Verification via Email Verification via OTP |
| FR-3 | User Login | Login through website or App using the respective username and password |
| FR-4 | User Access | Allows the app requirement |
| FR-5 | User Guide | Guides the basic steps of using the application |
| FR-6 | User Upload | User should be able to send the data |
| FR-7 | User Solution | Data report should be generated and delivered to user for per every 24 hours |
| FR-8 | User Data Sync | API interface to increase to invoice system |

Non-functional Requirements:

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

| FR No. | Non-Functional Requirement | Description |
|--------|----------------------------|--|
| NFR-1 | Usability | Usability requirements can consider language barriers and localization tasks. Usability can be assessed from the below functions. Efficiency of use. Low perceived workload. Easy and simple UI. |
| NFR-2 | Security | Access permissions for the particular system information may only be changed by the system's data administrator. |
| NFR-3 | Reliability | The database update process must roll back all related updates when any update fails. |
| NFR-4 | Performance | The front-page load time must be no more than 2 seconds for users that access the website using an VoLTE mobile connection. |
| NFR-5 | Availability | New module deployment mustn't impact front page, product pages, and check out pages availability and mustn't take longer than one hour. 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. |
| NFR-6 | Scalability | We can increase scalability by adding memory, servers, or disk space. On the other hand, we can compress data, use optimizing algorithms. The website attendance limit must be scalable enough to support 500,000 users at a time. |