

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

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| Date | 22 October 2022 |
| Team ID | PNT2022TMID51665 |
| 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 | Assemble the model | Place the sensors in the appropriate locations. |
| FR-2 | Test the Hardware | Check that the sensors are operating properly. |
| FR-3 | User Registration | Create user accounts for the software included in the model. |
| FR-4 | Test the Software | Check that alerts and SMS are being delivered correctly. |
| FR-5 | Test the data storage | Verify that sensor data is stored in the database properly. |

Non-functional Requirements:

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

| FR No. | Non-Functional Requirement | Description |
|--------|----------------------------|---|
| NFR-1 | Usability | The model is used in small-scale industries that deal with flammable chemicals. |
| NFR-2 | Security | The model ensures the safety of the industry's workers by taking the necessary precautions in the event of an accident. |
| NFR-3 | Reliability | The model is extremely reliable because it uses less energy. |
| NFR-4 | Performance | The model sends SMS and alert to the appropriate authorities with ease. |
| NFR-5 | Availability | The model responds instantly to the user. |
| NFR-6 | Scalability | The model is flexible and adaptive for use in large-scale industries. |