

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

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| Date | 03 October 2022 |
| Team ID | PNT2022TMID35923 |
| Project Name | Hazardous area monitoring for industrial plant powered by IOT |
| 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 Form Registration through Gmail Registration through LinkedIn |
| FR-2 | User Confirmation | Confirmation via Email Confirmation via OTP |
| FR-3 | User Login | User id and password to sign in. |
| FR-4 | User Dashboard | Show product list and details |
| FR-5 | Place your Order | Select product and place order by using user address, phone number |
| FR-6 | Order Delivered | Deliver the product to customer on time. |

Non-functional Requirements:

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

| FR No. | Non-Functional Requirement | Description |
|--------|----------------------------|---|
| NFR-1 | Usability | <ul style="list-style-type: none">• The monitoring of the hazardous areas industrial plants is more important from time to time. If the damage that occurs in hazardous areas can result in the loss of property or lives.• So monitoring of such areas can be easily done by monitoring of the hazardous areas. |
| NFR-2 | Security | <ul style="list-style-type: none">• Industrial Security Management emphasizes the general security and the ethical responsibilities of those involved.• The work covers general security management, security management, operational management, public relations and the perils of mismanagement |
| NFR-3 | Reliability | <ul style="list-style-type: none">• All the products coming out through the industrial process are of high quality. |
| NFR-4 | Performance | <ul style="list-style-type: none">• All kinds of machines running in the plant are fast with good performance. |

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|-------|---------------------|--|
| | | <ul style="list-style-type: none"> • Having a monitoring system makes it easy to monitor the hazardous area. • Due to the presence of monitoring system, the industrial plant is immediately alarmed if there is danger and necessary actions are taken accordingly. |
| NFR-5 | Availability | <ul style="list-style-type: none"> • Protection from system failures. • You can use multi type of programming commands to the device. |
| NFR-6 | Scalability | <ul style="list-style-type: none"> • The ability of a device to adapt to the changes in the environment. • It can handle a large increase in users without strain. |