**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

|  |  |
| --- | --- |
| Date | 31 January 2025 |
| Team ID | LTVIP2025TMID29069 |
| Project Name | Medical Inventory Management |
| 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 | Inventory Management | Record Stock In/Out via Stock\_Transaction\_\_c Auto-update Inventory\_\_c quantity fields |
| FR-4 | Stock Moving traking | |  | | --- | |  |  |  | | --- | | Create/Edit/Delete Inventory\_\_c records Track Expiry, Batch Number, and Quantity on-hand | |
| FR-5 | Alerts & Notifications | |  | | --- | |  |  |  | | --- | | Create Expiry and Low Stock alerts using Flows and Process Builder Send Email/Push/SMS | |
| FR-6 | |  | | --- | |  |  |  | | --- | | Reporting & Dashboards | | Build Reports on stock levels, expiry, usage trends Custom dashboards for Admin and Managers |

**Non-functional Requirements:**

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

|  |  |  |
| --- | --- | --- |
| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | Lightning UI and Experience Cloud sites provide intuitive workflows for both internal and external users |
| NFR-2 | **Security** | Salesforce Shield (optional), role hierarchy, encryption at rest, 2FA, and field-level security |
| NFR-3 | **Reliability** | High reliability with Salesforce platform SLAs, built-in data validation & transaction integrity |
| NFR-4 | **Performance** | |  | | --- | |  |  |  | | --- | | Apex best practices ensure optimized processing even with large volume data | |
| NFR-5 | **Availability** | |  | | --- | |  |  |  | | --- | | 99.99% uptime via Salesforce cloud infrastructure | |
| NFR-6 | **Scalability** | Scalable across multiple facilities or organizations by extending custom objects and apps |