Project Design Phase-II

Solution Requirements (Functional & Non-functional)

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| Date | 30 June 2025 |
| Team ID | **LTVIP2025TMID28924** |
| Project Name | **Asset Management Portal** |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

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| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | Asset Registration & Management | |  |  |  | | --- | --- | --- | |  |  | Add new assets with unique ID | |  |  | Edit existing asset details |  |  |  |  | | --- | --- | --- | |  |  | Delete obsolete or damaged assets | |
| FR-2 | Asset Allocation | |  |  |  | | --- | --- | --- | |  |  | Assign assets to specific users | |  |  | Track assigned assets | |  |  |  | |
| FR-3 | Asset Request | Allow users to raise requests for new/extra assets  View request history/status |
| FR-4 | Reqeuest Approval | Approve or reject asset requests by authorized managers  Notify users about approval/rejection |
| FR-5 | Asset Return & Notification | Set return deadlines and generate alerts  Send email/SMS reminders for return or maintenance |
| FR-6 | User Management | |  | | --- | | Create and manage user accounts  Define and assign user roles and permissions | |

**Non-functional Requirements:**

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| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Performance** | The portal should support up to 1000 concurrent users without performance lag. |
| NFR-2 | **Scalability** | The system must be scalable to handle increased number of assets and users. |
| NFR-3 | **Security** | Role-based access control and data encryption must be enforced. |
| NFR-4 | **Availability** | The system should have 99.9% uptime, accessible 24/7. |
| NFR-5 | **Usability** | The user interface should be simple, intuitive, and mobile-responsive. |
| NFR-6 | **Maintainability** | The system should allow easy code updates and minimal downtime during upgrades. |