

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

Date	19 February 2026
Team ID	LTVIP2026TMIDS37339
Project Name	Asset Management Portal
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	Asset Request System	<ul style="list-style-type: none"><li>- Users can request available assets via a form</li><li>- Auto-populate user details via session/email</li></ul>
FR-2	Asset Lifecycle Management	<ul style="list-style-type: none"><li>- Admin can mark assets as Lost, Damaged, or Repaired</li><li>- Asset status updates automatically and is logged</li></ul>
FR-3	Notification & Alerts	<ul style="list-style-type: none"><li>- Scheduled jobs send warranty expiry alerts to IT support</li><li>- Email notifications for overdue returns</li></ul>
FR-4	Reporting System	<ul style="list-style-type: none"><li>- Pie chart showing Available vs Assigned assets</li><li>- Exportable reports for auditing</li></ul>
FR-5	Admin Dashboard	<ul style="list-style-type: none"><li>- Search/filter assets by status, type, or user - View maintenance history and asset allocation history</li></ul>

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	The UI should be simple, intuitive, and accessible to both admins and users
NFR-2	<b>Security</b>	Role-based access (RBAC), form validation, HTTPS encryption
NFR-3	<b>Reliability</b>	The system must maintain consistent asset status and track changes
NFR-4	<b>Performance</b>	The system must respond to user actions in < 2 seconds
NFR-5	<b>Availability</b>	Should be accessible 24/7 with minimal downtime (ServiceNow SaaS)
NFR-6	<b>Scalability</b>	Must support increasing number of asset records and concurrent users