

## Solution Requirements (Functional & Non-functional)

|               |                         |
|---------------|-------------------------|
| Date          | 30/06/2025              |
| Team ID       | LTVIP2025TMID30530      |
| Project Name  | ASSET MANAGEMENT PORTAL |
| Maximum Marks | 4 Marks                 |

### 3. REQUIREMENT ANALYSIS

#### 3.1 Functional Requirements

- Asset registration, updates, decommissioning.
- Asset location tracking.
- User management with role-based permissions.
- Customizable reporting and dashboards.
- Notifications for maintenance, warranty expiry.
- API integration with ERP/procurement.

#### 3.2 Non-Functional Requirements

- High system performance and fast response.
- Scalability to support future growth.
- Strong security with encryption and audit logs.
- Intuitive usability and accessibility compliance.
- Regulatory data compliance (GDPR, local laws).

#### 3.3 Requirements Gathering

- Interviews with department heads and stakeholders.
- Surveys distributed to user groups.
- Workshops to prioritize features.
- Competitor product benchmarking.

### **3.4 Tools & Techniques**

- Use Case Diagrams.
- User Stories and Personas.
- SWOT Analysis.
- Requirements Traceability Matrix.