

Project Design Phase-II

Solution Requirements (Functional & Non-Functional)

| | |
|--------------|-----------------------------|
| Date | 02 NOVEMBER 2025 |
| Team ID | NM2025TMID05464 |
| Project Name | Laptop Request Catalog Item |
| Maximum Mark | 4 Marks |

Functional Requirements:

Following are the functional requirements of the proposed solution.

| FR.No | Components | Description |
|-------|-------------------------|---|
| FR-1 | Laptop Request Form | User can request a laptop through a guided catalog form.) |
| FR-2 | Dynamic Field Selection | Form dynamically changes based on user type (e.g., employee, intern, manager). |
| FR-3 | Request Validation | System checks that all required fields are filled before submission. |
| FR-4 | Request Approval | Manager or IT admin reviews and approves/rejects the laptop request. |
| FR-5 | Status Tracking | User can view current request status (Submitted, Approved, In Progress, Delivered). |
| FR-6 | Notification Alerts | System sends automated email/SMS notifications for each status change. |
| FR-7 | Reset Option | User can reset the form or withdraw a pending request if needed. |

| | | |
|------|-----------------|---|
| FR-8 | Request History | User can view previously submitted laptop requests for reference. |
|------|-----------------|---|

Non-Functional Requirements:

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

| FR.No | Components | Description |
|-------|-----------------|--|
| NFR-1 | Usability | The catalog form should be intuitive, visually clean, and easy to navigate. |
| NFR-2 | Security | Only authenticated users can request or approve laptops; sensitive data must be protected. |
| NFR-3 | Reliability | The system must process requests accurately without data loss. |
| NFR-4 | Performance | The form should load quickly and handle multiple submissions efficiently. |
| NFR-5 | Availability | The portal should be accessible 24/7 for employees across departments. |
| NFR-6 | Scalability | System sends automated email/SMS notifications for each status change. |
| NFR-7 | Maintainability | The solution should support increasing numbers of employees and request types. |