**Project Design Phase-II**

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

|  |  |
| --- | --- |
| Date | 31 October 2025 |
| Team ID | NM2025TMID08347 |
| Project Name | LAPTOP REQUEST CATALOG ITEMs |
| 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 | Laptop Request Form | Access laptop request form with guided fields Role-based laptop recommendations |
| FR-2 | Dynamic Form Behavior | Dynamic fields visibility based on selections (UI Policies) Reset form to default (form functionality) |
| FR-3 | Approval Workflow | Manager approval with comments Send email notifications for approval/rejection |
| FR-4 | Fulfillment & Status Tracking | IT staff access inventory info from CMDB Real-time status tracking for employees |

**Non-functional Requirements:**

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

|  |  |  |
| --- | --- | --- |
| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | The catalog item interface should be intuitive, user-friendly, and provide dynamic guidance based on user input. |
| NFR-2 | **Security** | Access to the laptop request form and approval workflows must be role-based with strict authentication and authorization controls to ensure data privacy. |
| NFR-3 | **Reliability** | The system should process requests and approvals accurately without data loss or downtime, ensuring consistent operation. |
| NFR-4 | **Performance** | The form loading time and workflow processing should be efficient, with minimal latency to avoid user frustration. |
| NFR-5 | **Availability** | The laptop request service should be available 99.9% of the time, with scheduled maintenance windows communicated in advance. |
| NFR-6 | **Scalability** | The solution must support future expansion such as additional user roles, new laptop models, and integration with other systems without significant rework. |