# Project Design Phase-II

## Solution Requirements (Function & Non-Functional)

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|---|---|
| Date | 31 October 2025 |
| Team ID | 26F183223D3726BBDE54BD8DC6085AFC |
| Project Name | Optimizing User, Group, and Role Management with Access Control and Workflow |
| Maximum Marks | 2 Marks |

## Functional Requirements:

Following are the **functional requirements** of the proposed solution.

| FR No. | Functional Requirement (Epic) | Sub Requirement (Story / Sub-Task) |
|---|---|---|
| FR-1 | User Creation & Role Assignment | Admin creates a new user and assigns role (Project Manager, Team Member, or Admin). |
| FR-2 | Role-Based Access Control | The system restricts actions based on assigned roles. Only authorized users can update or approve tasks. |
| FR-3 | Workflow Automation | Flow Designer automatically triggers when a task status changes to "In Progress" or "Feedback." |
| FR-4 | Approval Process | The system sends approval requests to the Project Manager before marking tasks as "Completed." |
| FR-5 | Task Status Management | Updates are automatically reflected in the task list with current status (Assigned / In Progress / Completed). |
| FR-6 | Audit & Logging | All user actions (assignments, approvals, updates) are logged for tracking and accountability. |

# Non-Functional Requirements:

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

| FR No. | Non-Functional Requirement | Description |
|---|---|---|
| NFR-1 | Usability | Interface should be user-friendly and simple for admins and team members. |
| NFR-2 | Security | Only authenticated users can perform role assignments and workflow approvals. |
| NFR-3 | Reliability | The system should ensure consistent task and role updates without data loss. |
| NFR-4 | Performance | Workflow triggers and updates must happen quickly with minimal delay. |
| NFR-5 | Availability | The system should be accessible at all times for role and task management. |
| NFR-6 | Scalability | Should support increasing numbers of users, roles, and tasks without performance drop. |