

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

Date	01 November 2025
Team ID	NM2025TMID01639
Project Name	Optimizing User, Group and Role Management with Access Control and Workflows
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)

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|--------------------------------------|---|
| FR-1 User & Role Registration | <ul style="list-style-type: none">• Create Users (Alice as Project Manager, Bob as Team Member)• User Profile Configuration• User Assignment to Groups |
| FR-2 Group & Role Management | <ul style="list-style-type: none">• Create Groups (Project Management Team)• Create Roles (u_project_table, u_task_table)• Assign Roles to Users |
| FR-3 Access Control | <ul style="list-style-type: none">• Configure Access Control Lists (ACLs)• Field-level Security for Comment and Status fields• Role-based Application Access |
| FR-4 Workflow Automation | <ul style="list-style-type: none">• Create Flow Designer Workflow• Automated Task Assignment• Approval Process with Project Manager• Status Updates (In Progress, Completed) |

Non-Functional Requirements:

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	Simple and intuitive interface for users to manage tasks and access workflows
NFR-2	Security	Role-based access control, field-level security, and secure user authentication

NFR	Non-Functional Requirement	Description
	NFR-3 Reliability	System should function consistently with proper audit trails and data integrity
	NFR-4 Performance	Fast response time for user access checks and workflow execution (<3 seconds)
	NFR-5 Availability	99.9% uptime supported by ServiceNow cloud infrastructure
	NFR-6 Scalability	Ability to scale for additional users, groups, and complex workflow requirements