

## 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)

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

### 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

<b>NFR No.</b>	<b>Non-Functional Requirement</b>	<b>Description</b>
<b>NFR-3</b>	Reliability	System should function consistently with proper audit trails and data integrity
<b>NFR-4</b>	Performance	Fast response time for user access checks and workflow execution (<3 seconds)
<b>NFR-5</b>	Availability	99.9% uptime supported by ServiceNow cloud infrastructure
<b>NFR-6</b>	Scalability	Ability to scale for additional users, groups, and complex workflow requirements