

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	31 October 2025
Team ID	NM2025TMID06082
Project Name	Optimizing user, group and role management with access control and workflow
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	User Registration and Group Assignment	Registration through Form / SSO (Single Sign-On) Admin assigns users to specific groups after registration
FR-2	Role Creation and Assignment	Create roles with defined permissions Assign roles to users based on job function
FR-3	Access Control Validation	System checks user's role and group before granting access to any resource
FR-4	Workflow Automation	Approval workflow triggered for access or role change requests
FR-5	Audit Logging	Track all user, group, and role activities for accountability
FR-6	Role Update and Revocation	Allow admins to modify or revoke roles as part of security maintenance

Non-Functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The interface should be simple and intuitive for admins and managers.
NFR-2	Security	Only authorized users can manage or modify access roles and permissions.
NFR-3	Reliability	The system must always validate role-based permissions before granting access.
NFR-4	Performance	Access validation and workflow approvals should occur quickly without delays.
NFR-5	Availability	The system should always be available for access management.
NFR-6	Scalability	The solution should support increasing users, groups, and workflows as the organization grows.