Project Design Phase – II

Solution Requirements (Functional & Non-Functional)

Date	1 November 2025
Team ID	NM2025TMID00630
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)
FR-1	User and Group Management	Admin can create, edit, or delete users and groups through a secure interface.
FR-2	Role-Based Access Control	System allows assignment of specific roles and permissions to each user or group.
FR-3	Workflow Automation	The system triggers approval workflows whenever changes are made to users, groups, or roles.
FR-4	Access Validation	Before applying any changes, the system verifies access control policies and prevents unauthorized updates.
FR-5	Audit Logging	Every action (create, modify, delete) is recorded for monitoring and compliance tracking.
FR-6	Notification and Alerts	System sends automated alerts or emails for role updates, access changes, and workflow approvals.

Non-Functional Requirements:

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

NFR No	Non-Functional Requirement	Description
NFR-1	Usability	The user interface should be clean and intuitive, allowing easy management of users, groups, and roles.
NFR-2	Security	Only authorized administrators can make access or workflow changes; all sensitive data must be encrypted.
NFR-3	Reliability	The system should ensure accurate access validation and workflow execution without failure.
NFR-4	Performance	Operations like access checks and workflow approvals should be processed quickly and efficiently.
NFR-5	Availability	The system must be available at all times for managing user and role-related operations.
NFR-6	Scalability	The system should handle an increasing number of users, roles, and workflow requests as the organization grows.