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

Date	02 NOVEMBER 2025
Team ID	NM2025TMID06605
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 management	Admin can create, update, and delete users. Users can update their profile details.
FR-2	Group management	Admin can create groups and assign users. Groups can have specific access permissions.
FR-3	Role management	Admin can create roles and assign them to users or groups. Each role defines specific access levels.
FR-4	Access control	System verifies permissions before allowing access to any module or task.
FR-5	Workflow automation	Approval workflows are triggered automatically when access or role changes occur.
FR-6	Adit & logs	System maintains activity logs for all user, role, and access changes for transparency and tracking

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 user-friendly for admins and users to manage roles and permissions easily.
NFR-2	**Security**	Only authorized users can modify access controls or assign roles. Data should be encrypted and protected.
NFR-3	**Reliability**	The system should accurately enforce permissions without failure or bypass.
NFR-4	**Performance**	User, group, and role updates should happen quickly, even with large datasets.
NFR-5	**Availability**	The system should remain accessible 24/7 for authorized users.
NFR-6	**Scalability**	The system must support increasing users, roles, and workflows as the organization grows..