

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

Date	01 November 2025
Team ID	NM2025TMID06932
Project Name	Optimizing User, Group and Role Management with Access Control and Workflows
Maximum Mark	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 Role Management	Admin can create users, assign roles, and define access permissions.
FR-2	Group Creation and Mapping	Admin can create groups (e.g., Project Team) and associate users and roles.
FR-3	Task and Project Table Management	System allows creation of task and project tables with defined fields and relationships.
FR-4	Access Control Validation	System validates permissions before allowing read, write, or delete actions on any record.
FR-5	Automated Workflow Trigger	Flow Designer automatically triggers workflow when task status or comments change.
FR-6	Approval and Notification	Approval requests are automatically sent to the approver (e.g., Project Manager), and notifications are generated.
FR-7	Record Update and Tracking	Upon approval, task or project records are automatically updated and logged for auditing.
FR-8	Reporting and Monitoring	System generates reports and logs of approval history, user activity, and workflow performance.

Non-functional Requirements:

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

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	The interface should be simple and intuitive for both users and approvers to interact with workflows.
NFR-2	Security	Only authorized users with assigned roles should have access to specific tasks, approvals, or tables.
NFR-3	Reliability	The workflow automation should consistently execute approvals and updates without failure.
NFR-4	Performance	Workflows and approvals should be processed in real time without system lag.
NFR-5	Availability	The system should be operational and accessible to users at all times for task and project management.
NFR-6	Scalability	The system should efficiently handle an increasing number of users, roles, and workflow processes.
NFR-7	Auditability	Every approval or role change should be logged for transparency and compliance.