Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	2 November 2025
Team ID	NM2025TMID06157
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 Creation & Update	Auto-create/Update user from HR feed Manual user creation (if needed) Update user info based on job change
FR-2	Group Assignment	Assign groups based on department/job role/location
FR-3	Role Assignment	Assign base roles automatically Request elevated roles via catalog
FR-4	Access Request Workflow	Submit role request via catalog Track approval status
FR-5	Manager Approval	Manager must approve access request
FR-6	Security Team Approval	Mandatory approval for elevated / privileged roles
FR-7	ACL Enforcement	Enforce RBAC and ACL rules for data access
FR-8	Role Revocation	Automatically remove access when job/department changes
FR-9	Notifications	Email/ServiceNow notifications for approvals, rejections & updates
FR-10	Audit Logging	Log all access assignment and revocation actions
FR-11	Access Review	Periodic access review triggered to managers/security team
FR-12	Reporting & Dashboards	Provide role usage reports, audit logs, compliance dashboards

Non-Functional Requirements

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	UI for access request should be simple and user-friendly
NFR-2	Security	Only authorized users can modify access Follow least-privilege principle
NFR-3	Reliability	Access workflows must always trigger correctly
NFR-4	Performance	User access provisioning should complete within 1 minute
NFR-5	Availability	System must be available whenever users request access
NFR-6	Audit Compliance	Every change must be logged to meet audit standards
NFR-7	Scalability	Solution must support enterprise-scale users & roles
NFR-8	Maintainability	Workflows should be low-code and easy to update
NFR-9	Data Integrity	Ensures correct access is assigned without duplication
NFR-10	Integration	Must support HR/Directory/SSO integrations without disruption