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

Date	2 NOVEMBER 2025
Team ID	NM2025TMID04605
Project Name Marks	Optimizing User, Group and Role Management with Access Control and Workflows 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	Role-Based Access Control (RBAC)	Role must be centrally defined, listing all associated permissions and resources.
FR-2	Self-Service Access Request	Users must be able to search and submit access requests for any defined Role/Group.
FR-3	Workflow Management	Access request must be automatically routed to the direct Manager and/or Role Owner for approval.
FR-4	Automated Provision	Upon approval, access must be automatically granted to the User in the Target Application.
FR-5	Automated De-provision	Upon employment termination, all user access must be automatically revoked/deleted across integrated systems.
FR-6	Segregation of Duties (SOD) checks	The system must block requests that result in "Toxic Combinations" and flag for security review.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The Self-service portal for access request should be simple, intuitive and accessible from mobile devices.
NFR-2	**Security**	All access decisions and administrative changes must be logged in a tamper-proof audit trail for a minimum of 7 years.
NFR-3	**Reliability**	The Automated Provisioning engine must guarantee access delivery(>99.9%) to target applications without failure.
NFR-4	**Performance**	Access approval notifications must be available 99.99% of the time to ensure the business can process request.
NFR-5	**Availability**	The system should be available whenever admin wants to manage users.
NFR-6	**Scalability**	The system should be able to manage 100,000+ users and seamlessly integrate 50+ applications without performance degradation.