

REQUIREMENT ANALYSIS

SOLUTION REQUIREMENT:

DATE	
TEAM ID	LTVIP2025TMID30796
PROJECT NAME	Optimizing Idee, Group, And Role Management With Access Control And Workflows

FUNCTIONAL REQUIREMENTS:

Following are the functional requirements.

FR NO	FUNCTIONAL REQUIREMENT	SUB REQUIREMENT
FR-1	Users	Create Users
FR-2	Groups	Create Groups
FR-3	Roles	Create Roles
FR-4	Tables	Create Tables
FR-5	Assign Roles To Users	Assign User To project Team Group
FR-6	Assign Roles To Users	Assign Roles To Alice User Assign Roles To Bob User
FR-7	Application Access	Assign Table access To Application

FR-8	Access control list	Create ACL
FR-9	Flow	Create A flow Assign Operations Ticket To Group

NON-FUNCTIONAL

Following are the functions requirements

FR NO	NON FUNCTIONAL REQUIREMENTS	DESCRIPTION	
NFR-1	Usability	Optimizing user group role management with access control and workflow focuses on improving usability by streamlining user access, reducing administrative overhead, and enhancing security. This involves clearly defining roles, implementing role-based access control (RBAC), and establishing efficient workflows that align with user needs.	
NFR-2	Security	Optimizing User, Group, and Role Management with Access Control and Workflow from a Security perspective involves strengthening identity	

		governance, reducing risks, and ensuring compliance. Here's a breakdown of how to design and optimize this system securely:	
NFR-3		This is achieved through role-based access control (RBAC), which assigns permissions based on roles rather than individual users, reducing administrative overhead and the risk of errors.	
NFR-4	Performance	streamlining user access, reducing administrative overhead, and enhancing security. This involves using Role-Based Access Control (RBAC) principles, such as grouping users by roles and assigning permissions to those roles rather than directly to individuals	
NFR-5	Availability	implementing a system where users are grouped based on their roles, with each role assigned	

		specific permissions to access resources and perform actions.	
NFR-6	Scalability	Implementing Role-Based Access Control (RBAC) and adhering to best practices like least privilege, along with efficient workflows, ensures security and manageability as the system grows.	