

PROJECT DESIGN PHASE

Proposed Solution

Date	1 November 2025
Team ID	NM2025TMID07110
Project Name	Optimising user,group, and role management with access control and workflows
Maximum Marks	2 marks

Proposed solution

Sl no.	Parameter	Description
1	Problem Statement	Manual and decentralized management of user access across disparate systems leads to security vulnerabilities, compliance failures, and crippling administrative overhead. The core problem is the lack of automated, role-based workflows to enforce the principle of least privilege consistently and scalably.
2	Idea / Solution description	The solution is to implement a central Identity Governance and Administration (IGA) platform utilizing Role-Based Access Control (RBAC) to define standardized permissions. This is achieved through automated Joiner-Mover-Leaver (JML) workflows that integrate with HR data to ensure instant, policy-driven access provisioning and revocation.
3	Novelty/ Uniqueness	This solution uniquely combines Identity Governance (audit/compliance) with Access Management (security/provisioning), using HR-driven automated workflows to enforce policy. This integration transforms access control from a manual, reactive task into a proactive, business-aligned security function.
4	Social Impact	The social impact is creating a more trustworthy and equitable digital workplace by ensuring fair, instant access based on role, not favoritism. It also protects personal and

		consumer data by drastically reducing the risk of security breaches caused by unauthorized access.
5	Buisness Model	The core business model revolves around selling Identity Governance and Administration (IGA) software or cloud services (SaaS) on a subscription basis, priced per user or per managed application. Revenue is further generated through high-value professional services for RBAC modeling, workflow customization, and system integration.

Solution Description:

The solution involves deploying an Identity Governance and Administration (IGA) platform to centralize access control via Role-Based Access Control (RBAC). Automated workflows, triggered by the HR system, govern the entire user lifecycle (JML) to ensure instant, policy-compliant provisioning and secure de-provisioning.