

## Project Design Phase

### Problem – Solution Fit Template

Date	31/10/2025
Team Id	NM2025TMID09014
Project Name	Optimization User, group and role management with access control and workflow
Maximum Mark	2 Marks

#### **Problem – Solution Fit Template:**

The Problem–Solution Fit means identifying a challenge faced by organizations in efficiently managing users, groups, and roles, and providing a solution that ensures secure, streamlined, and automated access control. It helps system administrators improve authorization management, reduce redundancy, and enhance workflow efficiency within enterprise systems.

#### Purpose:

- Simplify and automate the process of managing users, groups, and roles across the system.
- Enhance data security through structured access control and minimized unauthorized access.
- Reduce manual workload and potential human errors with workflow automation.
- Improve compliance and auditing by maintaining clear access hierarchies and permissions.
- Ensure faster onboarding, access requests, and de-provisioning processes for users.

#### References:

1. <https://www.ideahackers.network/problem-solution-fit-canvas/>
2. <https://medium.com/@epicantus/problem-solution-fit-canvas-aa3dd59cb4fe>

The project “Optimization of User, Group, and Role Management with Access Control and Workflow” focuses on enhancing security and operational efficiency within enterprise systems. Manual access control often leads to redundant roles, inconsistent permissions, and potential compliance risks. This solution proposes an optimized model integrating role-based and workflow-driven access management.

By introducing automation, monitoring, and well-defined rule enforcement, organizations can achieve better data protection, streamlined authorization, and transparent user activity tracking. This not only ensures operational consistency but also strengthens organizational compliance and security posture for modern digital ecosystems.

