

Project Design Phase

Problem – Solution Fit Template

Date	2 NOVEMBER 2025
Team ID	NM2025TMID06605
Project Name	Optimizing User, Group, and Role Management with Access Control and Workflows
Maximum Marks	2 Marks

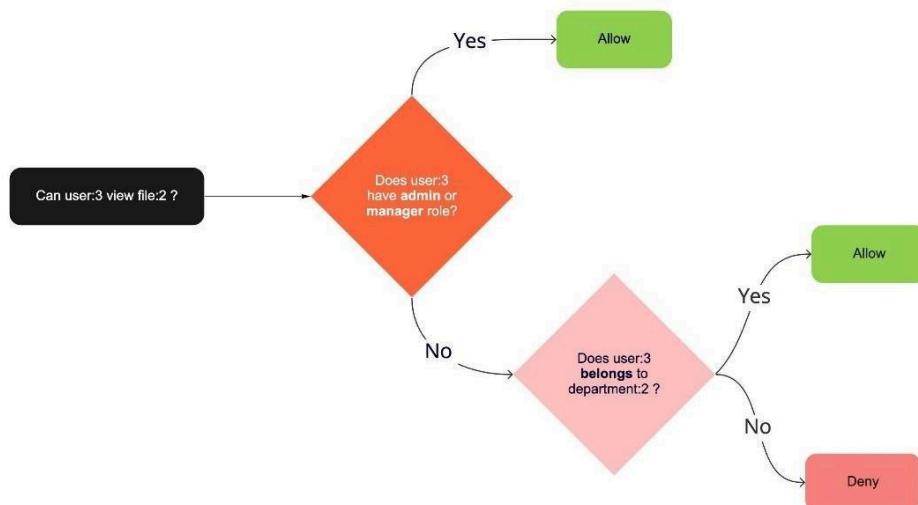
Problem – Solution Fit Template:

The Problem-Solution Fit simply means identifying a real problem experienced by users and ensuring that the proposed solution effectively addresses it. It helps organizations and developers design systems that are efficient, secure, and aligned with user and business requirements.

Purpose:

- Simplify and secure user, group, and role management within enterprise systems.
- Improve workflow automation and reduce manual access management tasks.
- Enhance compliance by enforcing access control policies and approval workflows.
- Increase efficiency by providing centralized visibility and control of user permissions.
- Ensure accountability and traceability in role assignments and workflow execution.

Template:



References:

1. <https://csrc.nist.gov/projects/role-based-access-control>
2. <https://www.ibm.com/products/security-identity-governance-intelligence>

The project 'Optimizing User, Group, and Role Management with Access Control and Workflows' focuses on improving the efficiency and security of access management processes in enterprise environments. Managing users, groups, and roles manually often leads to inconsistencies, unauthorized access, and administrative overload. This project introduces an automated workflow-based system that streamlines user creation, role assignment, and access approval processes.

The solution ensures that access control is governed by clearly defined policies and workflows that automate approvals, role assignments, and periodic access reviews. By integrating this solution with enterprise platforms, organizations can achieve a higher level of operational efficiency, security compliance, and audit readiness. Additionally, the system supports role-based access control (RBAC) and dynamic group management, allowing for flexible and scalable implementation across various departments. Through automation and monitoring, this project helps eliminate redundant manual efforts, minimize security risks, and enhance accountability in managing digital identities.