

Project Design Phase

Problem – Solution Fit Template

Date	29 October 2025
Team ID	NM2025TMID06552
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** identifies the critical challenges faced by organizations in managing users, groups, and roles efficiently while ensuring security and compliance through structured workflows. This project focuses on aligning user management processes with automated access control mechanisms to improve accuracy, security, and productivity.

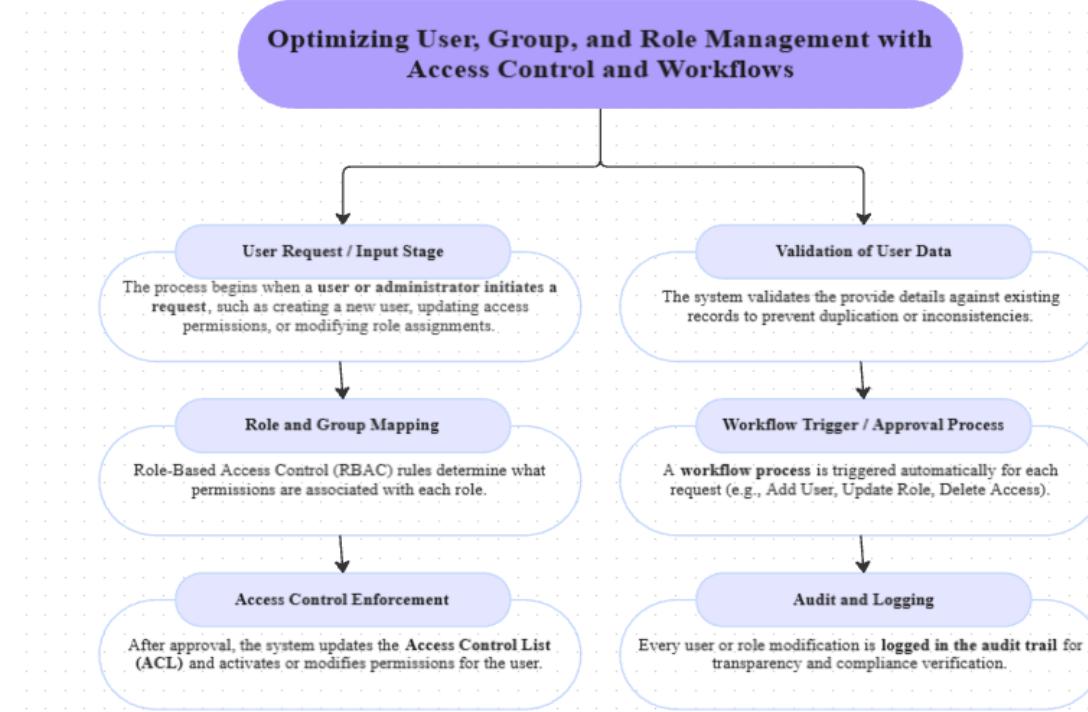
Purpose:

- ✓ Streamline complex access management processes by integrating user, group, and role workflows under a unified system.
- ✓ Enhance administrative efficiency by automating repetitive access-related tasks and approval processes.
- ✓ Improve system security and compliance by enforcing strict access validation and dependency checks.
- ✓ Increase organizational productivity by ensuring timely access provisioning and revocation through workflow automation.
- ✓ Understand and optimize existing user-role relationships to prevent unauthorized access and operational bottlenecks.

References:

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

Templates:



Project Summary:

The project “**Optimizing User, Group, and Role Management with Access Control and Workflows**” addresses a vital challenge in enterprise and IT environments — the complexity and inefficiency in managing user access, group memberships, and role assignments.

By implementing an **automated access control system** integrated with **workflow-based approvals**, this solution ensures that all user actions, role assignments, and access changes follow predefined business rules and validation layers.

This approach prevents misconfigurations, redundant role overlaps, and unauthorized permissions while maintaining **audit transparency and compliance**. The system empowers administrators with real-time insights into user privileges and role dependencies, ensuring operational consistency and data security.

Through automation, dependency checks, and workflow-driven actions, this project establishes a **reliable, scalable, and secure access management model** that enhances accountability, reduces manual errors, and strengthens enterprise governance.