

**Project Design**  
**Phase Proposed**  
**Solution**

Date	2 NOVEMBER 2025
Team ID	NM2025TMID00383
Project Name	Optimizing User, Group, and Role Management with Access Control and Workflows
Maximum Marks	2 Marks

**Proposed Solution Template:**

S.No.	Parameter	Description
1.	<b>Problem Statement</b> <b>(Problem to be solved)</b>	Current role and group assignments are <b>manual</b> , prone to <b>human error</b> (over-provisioning/under-provisioning), lack a clear, <b>auditable approval trail</b> , and result in <b>access creep</b> (users retaining roles they no longer need).
2.	<b>Idea / Solution description</b>	Implement a <b>ServiceNow Workflow</b> that automates the entire access lifecycle: 1. User/Manager submits request via Service Catalog. 2. Request is routed for <b>multi-level approval</b> (Manager and Application Owner). 3. Upon approval, an <b>Access Control Workflow</b> script automatically adds the user to the correct <b>Group</b> , ensuring Role-Based Access Control (RBAC) compliance.
3.	<b>Novelty / Uniqueness</b>	The solution leverages native ServiceNow <b>Flow Designer/Workflow</b> capabilities to enforce a <b>governance model</b> for access, making the process <b>self-documenting</b> for audits and automatically enforcing the <b>Principle of Least Privilege</b> through controlled group assignments.
4.	<b>Social Impact / Customer Satisfaction</b>	<b>Reduces frustration</b> for users by granting access faster and more accurately. <b>Increases confidence</b> for IT Security and Audit teams by providing a definitive, immutable record of every access decision and automated provisioning action.
5.	<b>Business Model (Value Proposition)</b>	Achieves significant <b>cost savings</b> and efficiency gains by shifting access provisioning from a manual, high-cost task to a <b>zero-touch automated workflow</b> . Drastically reduces the risk of <b>compliance fines</b> by maintaining clean, auditable access records.
6.	<b>Scalability of the Solution</b>	Highly scalable. The core workflow engine can be easily adapted to manage roles for <b>hundreds of applications</b> and <b>thousands of users</b> . New roles or groups only require minor configuration updates to the existing approval and provisioning workflow logic.

## Conclusion:

This scenario highlights a structured approach to project management, showcasing the roles of Alice and Bob within a defined workflow. With Alice's oversight and Bob's execution, the team effectively collaborates to ensure project success. The use of tables organizes key information, facilitating easy tracking of projects, tasks, and progress updates. Overall, this system promotes accountability, enhances communication, and leads to the successful completion of projects.

### Solution Description:

By successfully implementing this preventive measure, the solution achieves several objectives:

1. **Improves Accountability:** Ensures that every open incident always has a valid, responsible user assigned, preventing the loss of the audit trail.
2. **Enhances Data Integrity:** Eliminates "broken references" and "orphaned records" caused by deleting a user who is still actively linked to a workflow.
3. **Supports Compliance:** Establishes a foundation for building safer administrative systems that automatically enforce data governance and simplify internal and external auditing processes.