Date	18 June 2025
Team ID	LTVIP2025TMID30187
Project Name	Optimizing User, Group, and Role Management with Access Control and Workflows
Mentor Name	Dr Shaik Salma Begum
Maximum Marks	4 Marks

Optimizing User, Group, and Role Management with Access Control and Workflows

Milestone 1: Understanding the Problem

Problem Context:

In a small project team setup, such as one involving a Project Manager (Alice) and a Team Member (Bob), inefficient handling of user roles, group definitions, and permissions often leads to confusion in task assignment and accountability. The current system does not support structured workflows or role-based access, resulting in overlapping responsibilities and security gaps.

Milestone 2: Goal Identification

Objectives:

- Define clear user roles (e.g., Manager vs. Contributor)
- Restrict actions using role-based access control (RBAC)
- Automate workflow stages like task creation, assignment, completion, and closure
- Improve accountability via audit logs and notifications

Milestone 3: Instance Setup on ServiceNow

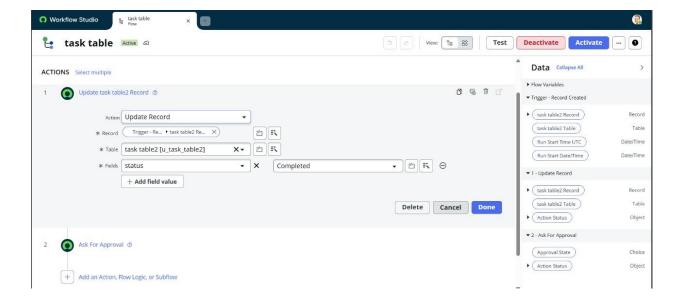
- Created and activated a ServiceNow Developer Instance from developer.servicenow.com
- Logged in using the instance credentials
- Verified the environment for custom development

Milestone 4: Create Update Set

- Navigated to: Local Update Sets
- Created a new update set: AccessControlWorkflow
- Made it current for capturing all customizations

Milestone 5: Role Definition Table Creation

- Created a new table: Role Definitions
- Fields included: Role Name, Permissions, Description
- Configured auto-numbering and number maintenance with prefix: RWF



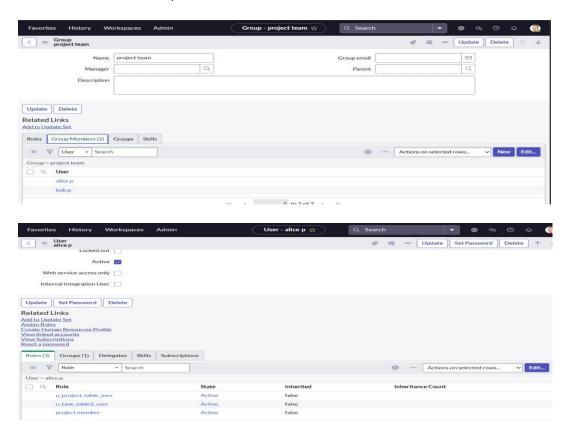
Milestone 6: User and Group Table Creation

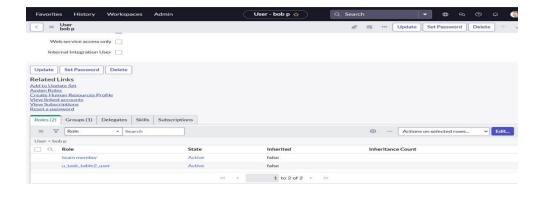
Created two tables:

User Management – stores user details and assigned roles

Group Management – stores group names, members, and linked permissions

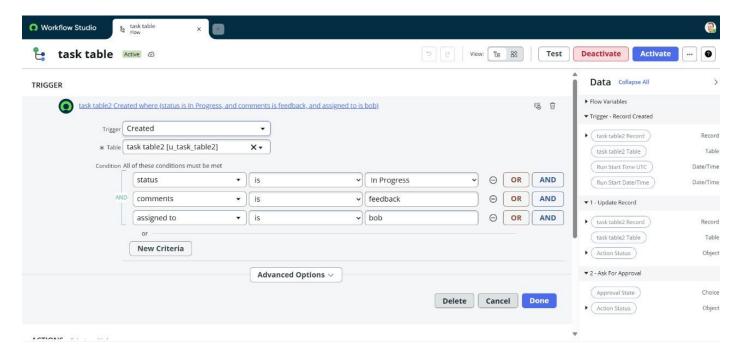
• Linked Users to Groups and Roles via reference fields

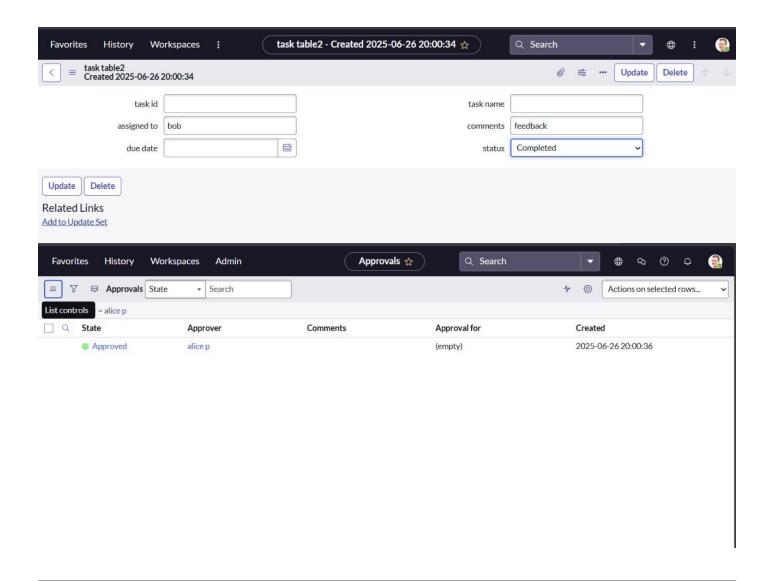




Milestone 7: Workflow Implementation

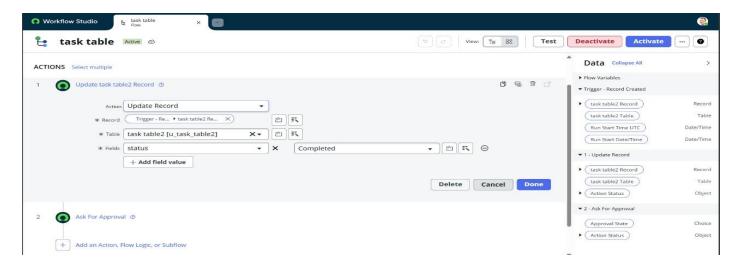
- Designed a workflow for task management with the following states:
- 1. Task Created
- 2. Task Assigned
- 3. In Progress
- 4. Completed
- 5. Closed by Manager
- Used ServiceNow Flow Designer to automate transitions and set up notifications





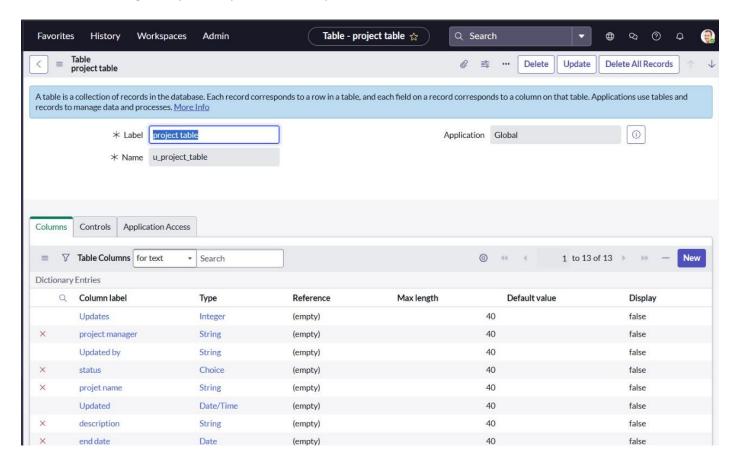
Milestone 8: Business Rule Setup

- Created Business Rules to:
- 1. Prevent task reassignment by unauthorized users
- 2. Trigger alerts on status changes
- 3. Maintain logs of changes per user



Milestone 9: Configure Relationships

- Linked Task Table with User and Role tables
- Created Related Lists to display task ownership under user profiles
- Enabled Manager-only visibility to closed/completed tasks



Milestone 10: Testing & Validation

- Tested workflows by logging in as both Alice (Manager) and Bob (Team Member)
- Verified:
- 1. Bob could only update assigned tasks
- 2. Alice had full access
- 3. Status changes triggered alerts
- 4. Unauthorized actions were blocked

