



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

Team ID: NM2025TMID14177

Team Size: 4
Team member:

Team Leader: ALFI JAMES
Team member 1: PURVAJA S
Team member 2: NITHYAA SRI S

Team member 3: SWATHI A

Problem Statement:

In a small project management team with a Project Manager (Alice) and a Team Member (Bob), there is a need to manage tasks efficiently and ensure accountability. Currently, there are no clear **role definitions**, **access controls**, or **structured workflows**, which leads to confusion in task assignments and makes it difficult to track progress.

Objective:

1. Define User Roles Clearly:

- Assign specific responsibilities to Alice (Project Manager) and Bob (Team Member).
- Ensure clarity in permissions within the project management tool.

2. Implement Access Control Mechanisms:

- Restrict Bob's access to project creation and editing.
- Allow Bob to only view and update assigned tasks.

3. Streamline Workflow Processes:

- Create structured workflows for task assignment and tracking.
- Enable Alice to assign tasks and monitor progress easily.





Skills:

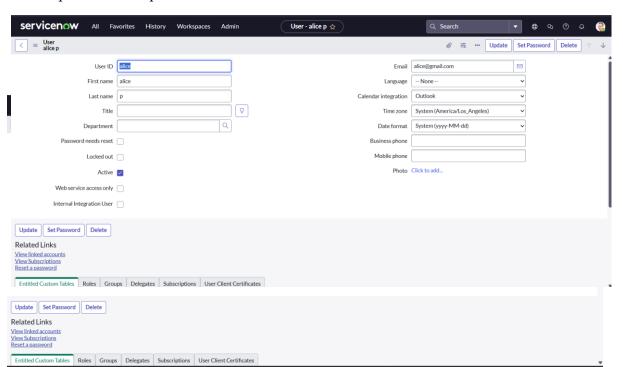
- Users
- Groups
- Roles
- Tables
- Access Control List
- Flow Designer

TASK INITIATION

Milestone 1: Users

Activity 1: Create Users

- 1. Open ServiceNow.
- 2. Go to All \rightarrow search "Users" \rightarrow select Users under System Security.
- 3. Click New, fill in user details, and submit.
- 4. Repeat the same process to create another user.



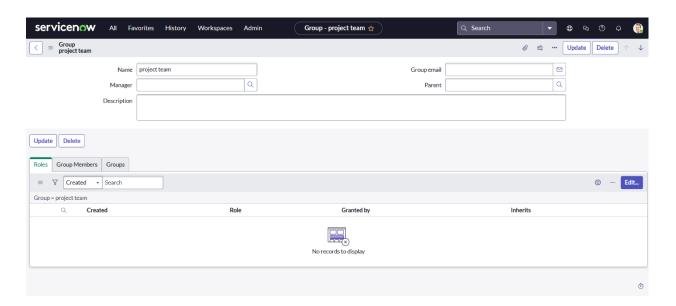




Milestone 2: Groups

Activity 1: Create Groups

- 1. Open ServiceNow.
- 2. Go to All \rightarrow search "Groups" \rightarrow select Groups under System Security.
- 3. Click **New**, fill in group details, and submit.



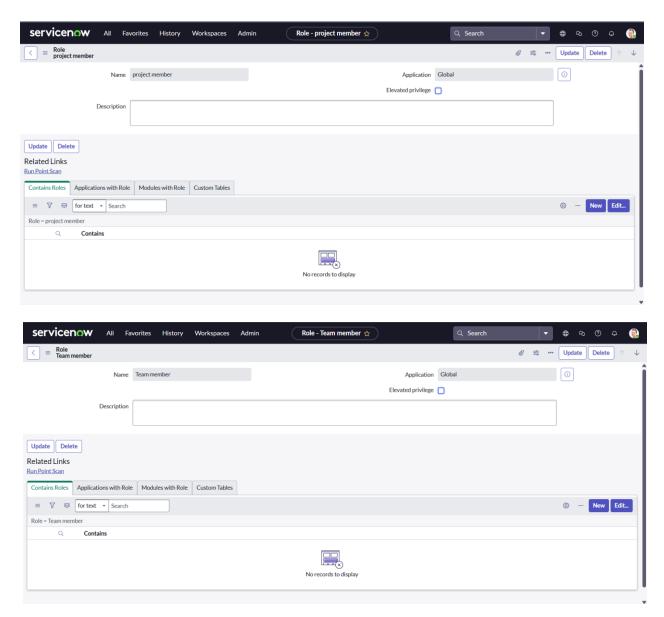
Milestone 3: Roles

Activity 1: Create roles

- 1. Open ServiceNow.
- 2. Go to All \rightarrow search "Roles" \rightarrow select Roles under System Security.
- 3. Click **New**, enter role details, and submit.
- 4. Create another role by repeating the process.







Milestone 4: Table

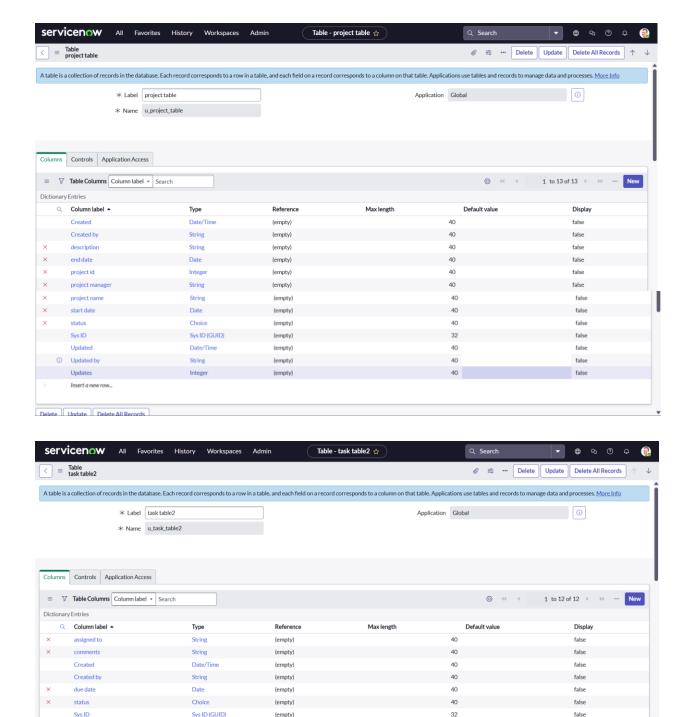
Activity 1: Create a Table

- 1. Open ServiceNow.
- 2. Navigate to All → Tables (under System Definition).
- 3. Click on New.
- 4. Fill in the details:
 - Label: Project Table



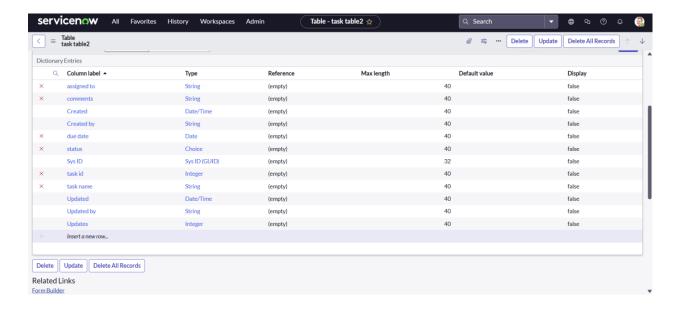


- Enable Create Module & Create Mobile Module
- Under New Menu Name: Project Table
- Add necessary Table Columns
- 5. Click on **Submit**.
- 6. Create another table named Task Table 2 with the required details and click Submit.





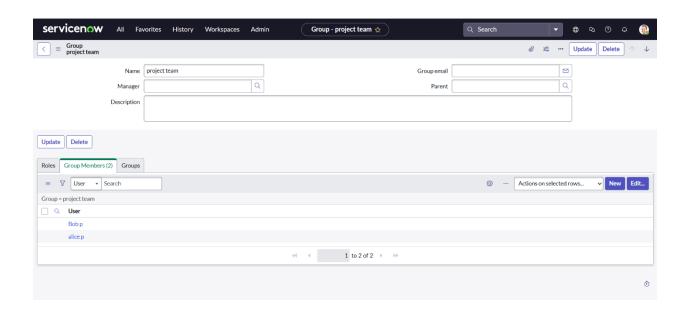




Milestone 5: Assign users to groups

Activity 1: Assign users to the project team group

- 1. Open ServiceNow.
- 2. Navigate to All \rightarrow Groups.
- 3. Select Project Team Group.
- 4. Under Group Members, click Edit.
- 5. Add Alice P and Bob P as group members and save.



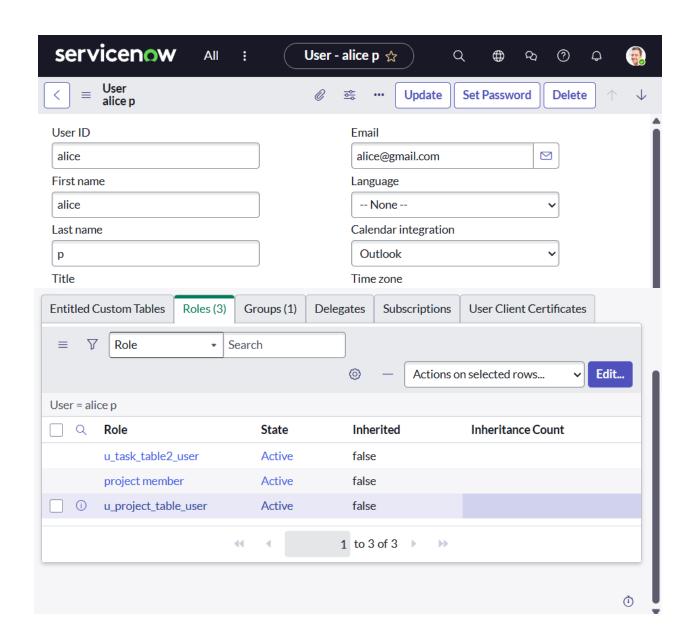




Milestone 6: Assign roles to users

Activity 1: Assign roles to the Alice user

- 1. Open ServiceNow and search for Users.
- 2. Select Project Manager user (Alice P).
- 3. Under Roles, click Edit.
- 4. Assign Project Member, u_project_table, and u_task_table roles.
- 5. Save and update the form.

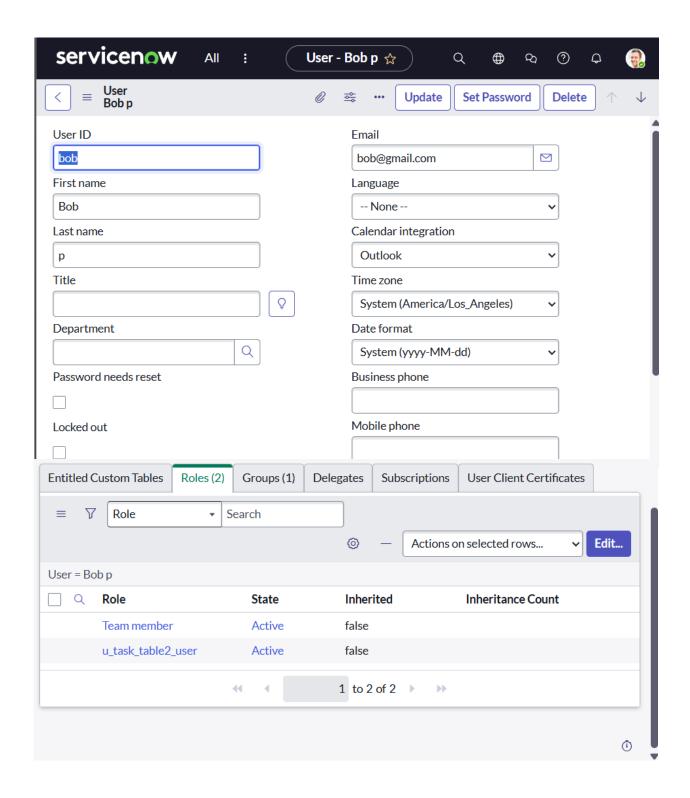






Activity 2: Assign roles to the Bob user

- 1. Open ServiceNow and search for Users.
- 2. Select Team Member user (Bob P).
- 3. Under Roles, click Edit.





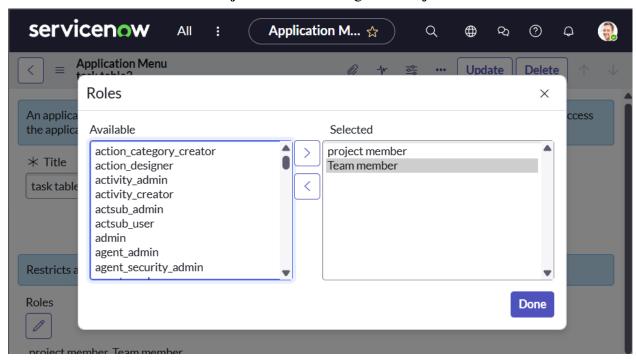


- 4. Assign **Team Member** role and appropriate table roles.
- 5. Save and update the form.
- 6. Impersonate Bob to verify that he has access to Task Table 2.

Milestone 7: Application access

Activity 1: Assign table access to the application

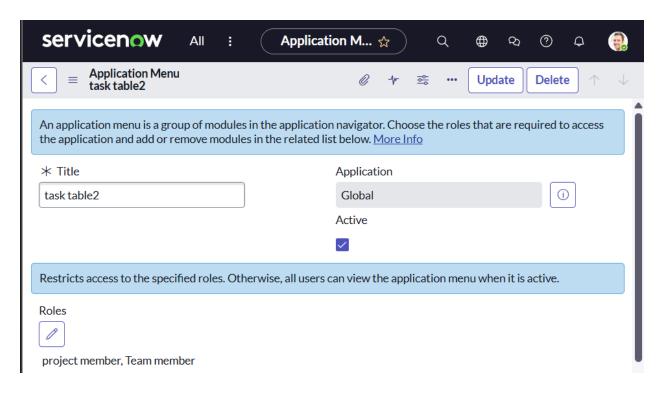
- 1. When a table is created, an application and module are automatically created.
- 2. Navigate to the application in the Application Navigator.
- 3. Edit the module for the **Project Table** and assign the **Project Member** role.



4. Edit the module for **Task Table 2** and assign both **Project Member** and **Team Member** roles.







Milestone 8: Access control list

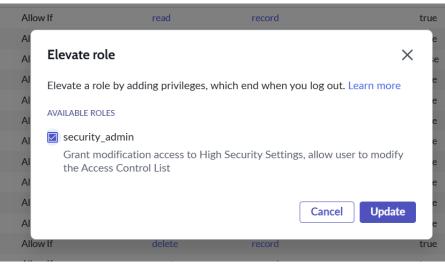
Activity 1: Create ACL

- 1. Open ServiceNow.
- 2. Navigate to All \rightarrow Access Control (ACL) under System Security.
- 3. Click on Elevate Role \rightarrow New.
- 4. Fill in the ACL details.
- 5. Under Requires Role, add Task Table and Team Member role.
- 6. Submit

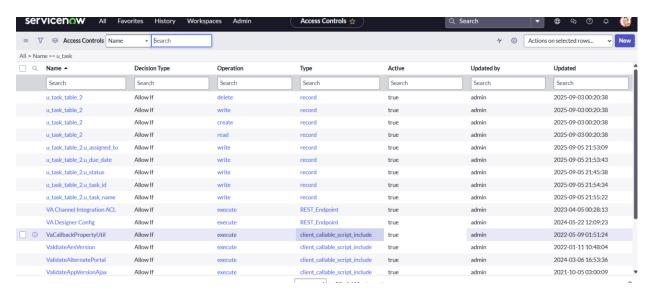






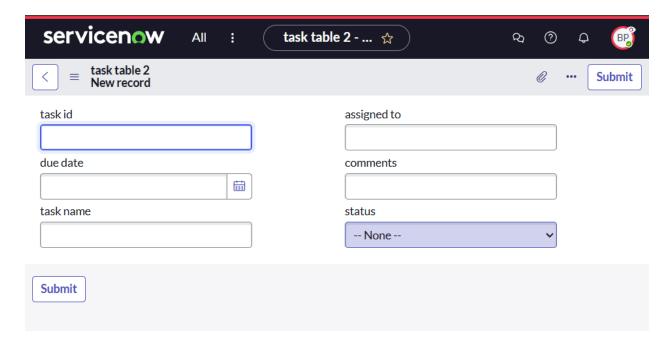


- 7. Similarly, create four ACLs for different fields.
- 8. Verification:
 - Impersonate Bob.
 - Navigate to **Task Table 2**.
 - Confirm that Comment and Status fields are editable.









Milestone 9: Flow

Activity 1: Create a Flow to assign an operations ticket to a group

- 1. Open ServiceNow.
- 2. Navigate to All → Flow Designer (under Process Automation).
- 3. Click on New Flow.
- 4. Enter details:
 - o Flow Name: Task Table
 - o **Application:** Global

Steps:

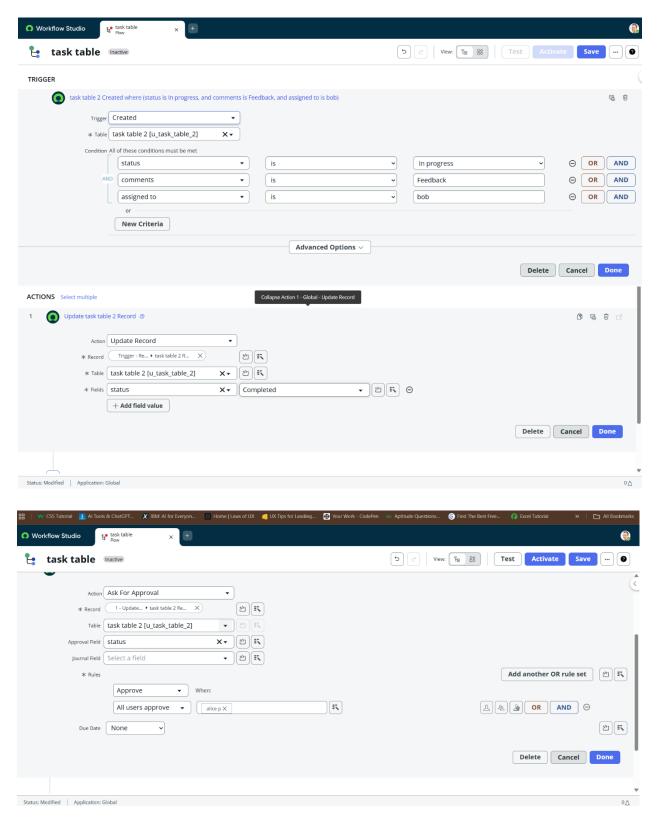
- Trigger: Set trigger to *Record Created* on Task Table with conditions:
 - Status = In Progress
 - o Comments = Feedback
 - Assigned To = Bob
- Action 1: $Update\ Records \rightarrow Set\ Status = Completed$.
- Action 2: $Ask for Approval \rightarrow Assign approval to Alice P$.

Execution:

- Bob updates the task \rightarrow Status changes to *Completed*.
- Alice receives an approval request → Approves it.
- Task is successfully closed.

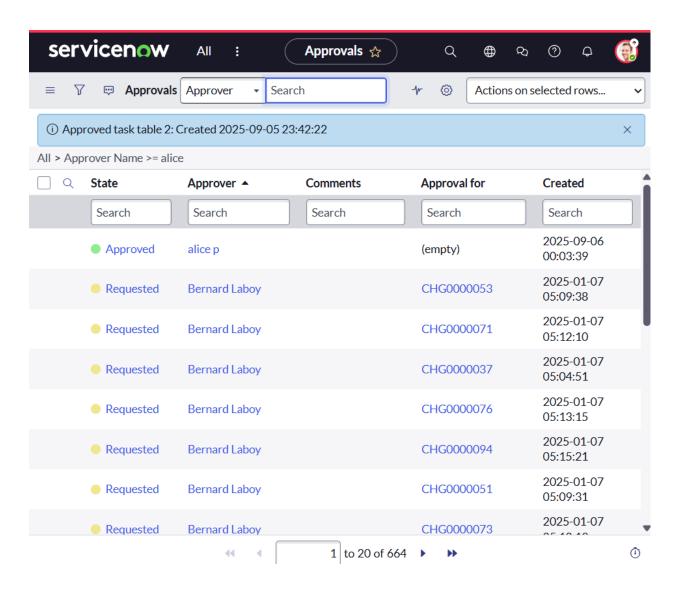












Conclusion:

This scenario demonstrates a structured approach to project management by clearly defining roles and workflows. Alice, as the Project Manager, oversees task assignments and approvals, while Bob, as the Team Member, executes and updates tasks. The use of tables simplifies project tracking, and the integration of ACLs and workflows ensures accountability, transparency, and smooth communication. Overall, this system enhances project efficiency and leads to successful project completion.