





ANJALAI AMMAL MAHALINGAM ENGINEERING COLLEGE

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

NAAN-MUDHALVAN

OPTIMIZING USER, GROUP, AND ROLE MANAGEMENT THROUGH ACCESS CONTROL AND WORKFLOWS USING SERVICENOW

Team Id: NM2025TMIDO3879

Team size: 4

Team Leader: Karthikeyan S

Team Member 1: Barath M

Team Member 2: Barathkumar P K

Team Member 3: Kavindharan T

Problem Context:

In a small project environment, a Project Manager (Alice) and a Team Member (Bob) are responsible for delivering tasks. However, the absence of well-defined roles, access restrictions, and structured workflows often creates confusion in responsibilities, accountability, and progress monitoring.

Objectives:

- **1. Role Definition:** Clearly outline the duties of Alice as Project Manager and Bob as Team Member, ensuring both responsibility and access boundaries are transparent.
- **2. Access Control:** Introduce mechanisms that limit Bob's ability to create or edit projects beyond his assigned tasks, while still allowing him to view and update his responsibilities.
- **3. Workflow Organization:** Establish a structured process that enables Alice to assign work, track task progress, and oversee completion in a timely and efficient manner.

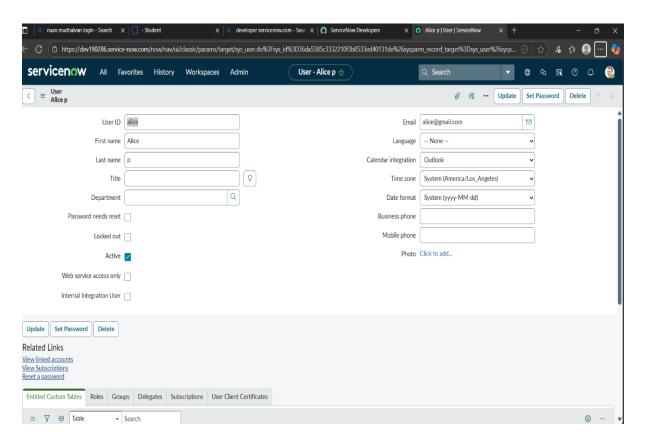
Key Skills/Tools: Users, Groups, Roles, Tables, Access Control Lists (ACL), Workflow/Flow Designer.

TASK INITIATION

Milestone 1: Users

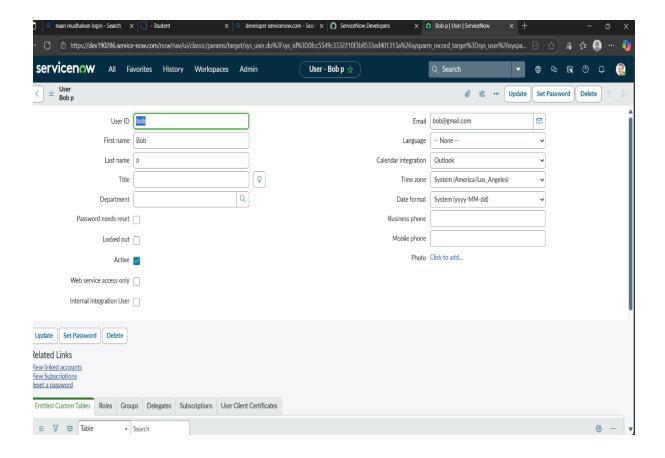
Activity 1: Create Users

- 1. Open service now
- 2. Click on All >> search for users
- 3. Select Users under system security
- 4. Click on new
- 5. Fill the following details to create a new user
- 6.Click on submit



Create one more user:

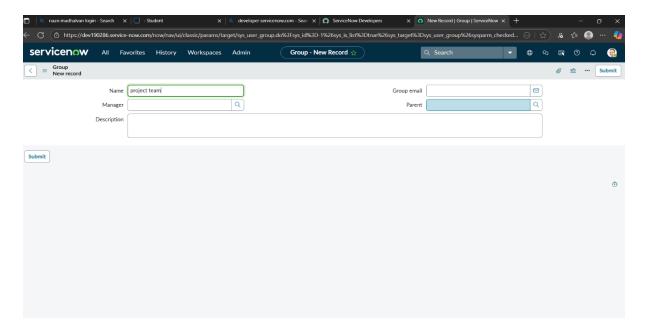
- 7. Create another user with the following details
- 8. Click on submit



Milestone 2: Groups

Activity 1: Create Groups

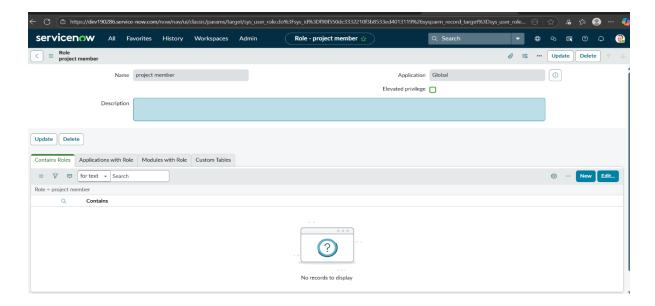
- 1. Open service now.
- 2. Click on All >> search for groups
- 3. Select groups under system security
- 4. Click on new
- 5. Fill the following details to create a new group
- 6. Click on submit.



Milestone 3: Roles

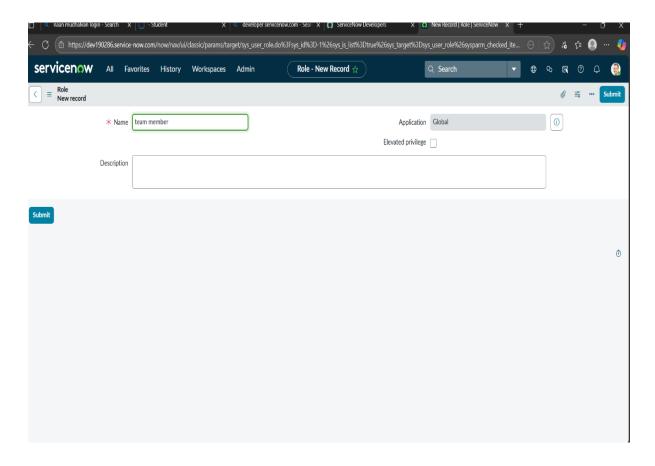
Activity 1: Create roles

- 1. Open service now.
- 2. Click on All >> search for roles
- 3. Select roles under system security
- 4. Click on new
- 5. Fill the following details to create a new role
- 6. Click on submit.



Create one more role:

- 7. Create another role with the following details
- 8.Click on submit



Milestone 4: Table

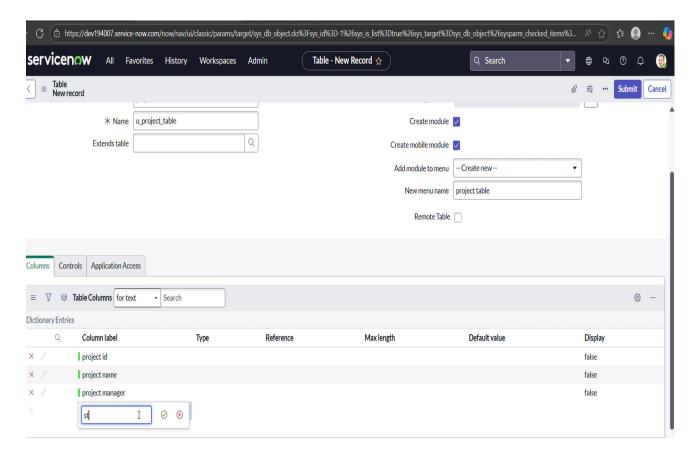
Activity 1: Create Table

- 1. Open service now.
- 2. Click on All >> search for tables
- 3. Select tables under system definition
- 4. Click on new
- 5. Fill the following details to create a new table

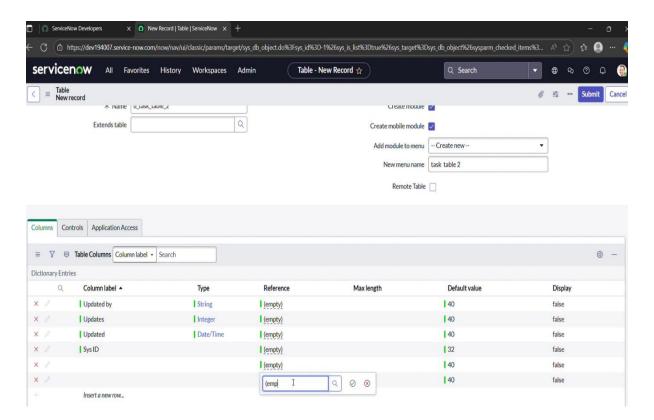
Label: project table

Check the boxes Create module & Create mobile module

- 6. Under new menu name: project table
- 7. Under table columns give the columns

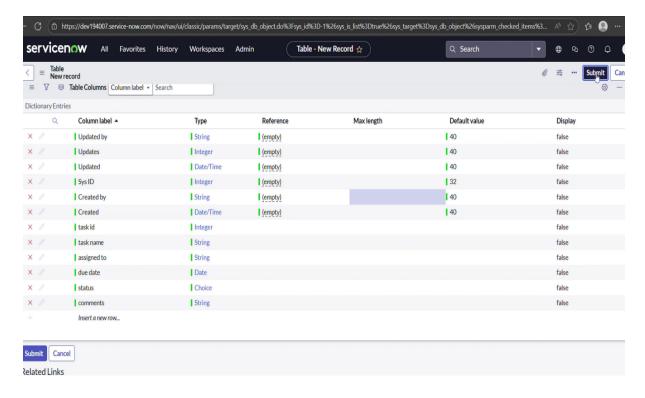


8. Click on submit



Create one more table:

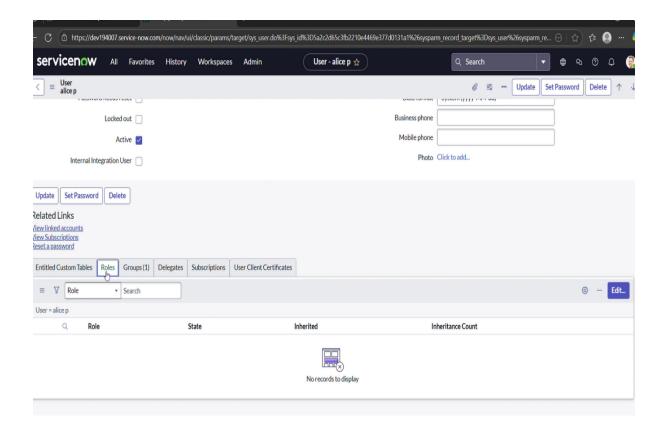
- 9. Create another table as: task table 2 and fill with following details.
- 10. Click on submit.



Milestone 5: Assign users to groups

Activity 1: Assign users to project team group

- 1. Open service now.
- 2.Click on All >> search for groups
- 3. Select tables under system definition
- 4. Select the project team group
- 5. Under group members
- 6.Click on edit
- 7. Select alice p and bob p and save

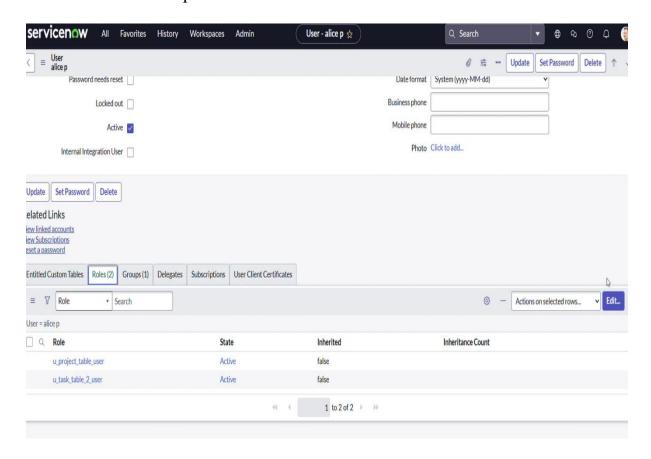


Milestone 6: Assign roles to users

Activity 1: Assign roles to alice user

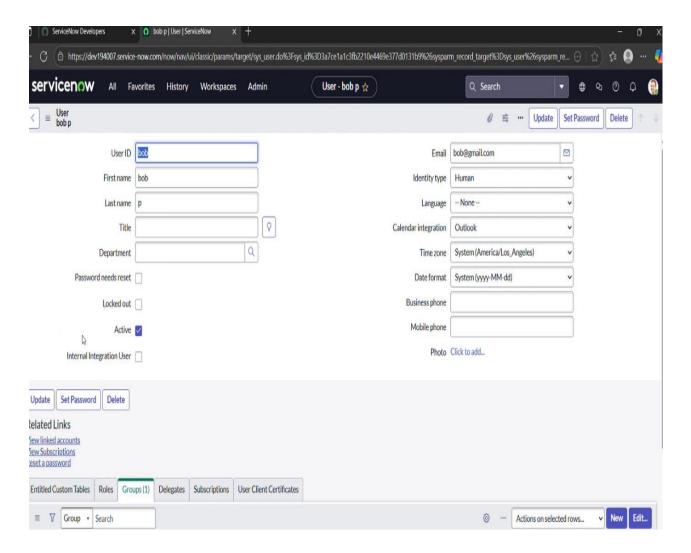
- 1.Open servicenow.Click on All >> search for user
- 2. Select tables under system definition
- 3. Select the project manager user
- 4. Under project manager
- 5.Click on edit
- 6.Select project member and save
- 7.click on edit add u_project_table role and u_task_table role

8.click on save and update the form.



Activity 2: Assign roles to bob user

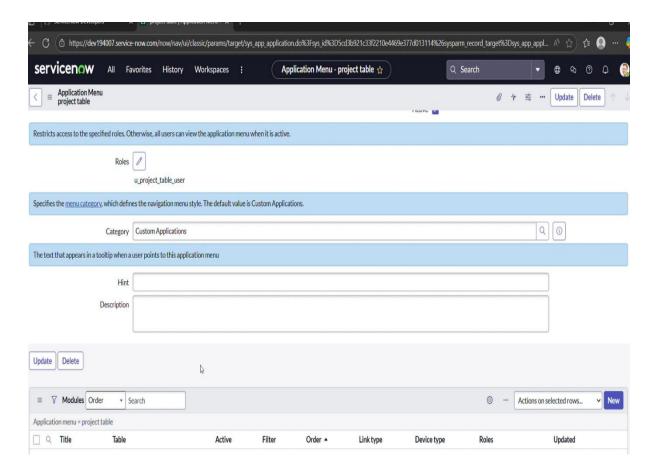
- 1. Open servicenow.Click on All >> search for user
- 2. Select tables under system definition
- 3.Select the bob p user
- 4. Under team member
- 5.Click on edit
- 6. Select team member and give table role and save
- 7. Click on profile icon Impersonate user to bob
- 8. We can see the task table 2.



Milestone 7: Application access

Activity 1: Assign table access to application

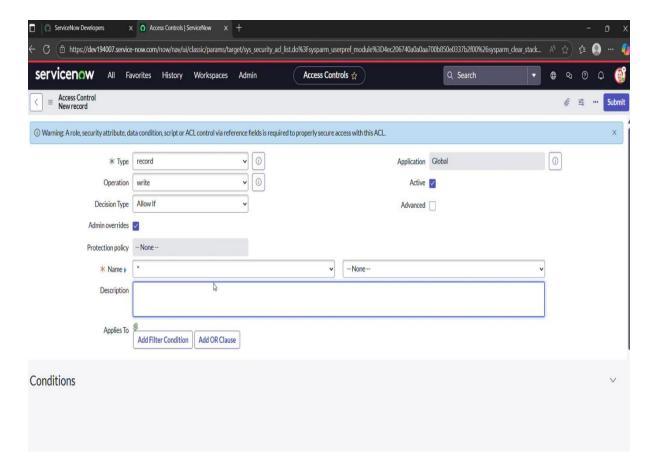
- 1. while creating a table it automatically create application and module for that table
- 2. Go to application navigator search for search project table application
- 3. Click on edit module
- 4. Give project member roles to that application
- 5. Search for task table2 and click on edit application.
- 6. Give the project member and team member role for task table 2 application



Milestone 8: Access control list

Activity 1: Create ACL

- 1. Open service now.
- 2. Click on All >> search for ACL
- 3. Select Access Control (ACL) under system security
- 4. Click on elevate role
- 5. Click on new

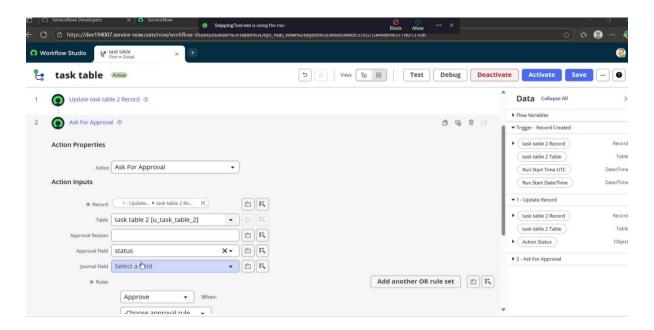


- 6. Fill the following details to create a new ACL
- 7. Scroll down under requires role
- 8. Double click on insert a new row
- 9. Give task table and team member role
- 10. Click on submit
- 11. Similarly create 4 acl for the following fields
- 12.Click on profile on top right side
- 13.Click on impersonate user
- 14. Select bob user
- 15.Go to all and select task table2 in the application menu bar
- 16. Comment and status fields have the edit access

Milestone 9: Flow

Activity 1: Create a Flow to Assign operations ticket to group

- 1. Open service now.
- 2. Click on All >> search for Flow Designer
- 3. Click on Flow Designer under Process Automation.
- 4. After opening Flow Designer Click on new and select Flow.
- 5. Under Flow properties Give Flow Name as "task table".
- 6. Application should be Global.
- 7. Click build flow.



next step:

- 1. Click on Add a trigger
- 2. Select the trigger in that Search for "create record" and select that.
- 3. Give the table name as "task table".

4. Give the Condition as Field: 'status' Operator: 'is' Value: 'in progress'

Field: 'comments' Operator: 'is' Value: 'feedback'

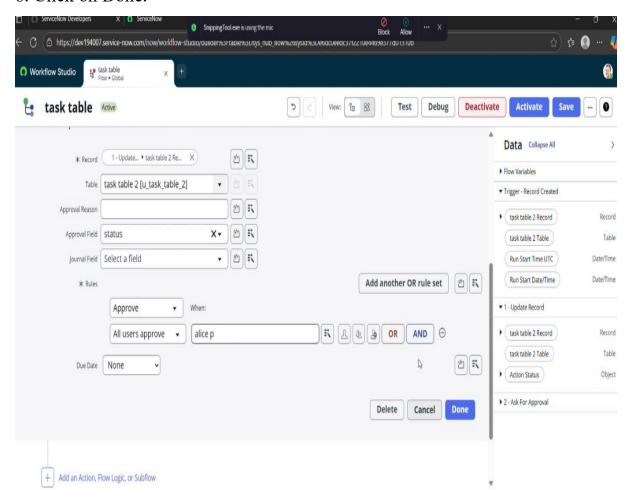
Field: 'assigned to' Operator: 'is' Value: 'bob'

5. After that click on Done.

Next step:

- 1. Click on Add an action.
- 2. Select action in that, search for "update records".
- 3. In Record field drag the fields from the data navigation from Right Side (Data pill)
- 4. Table will be auto assigned after that
- 5. Add fields as "status" and value as "completed"

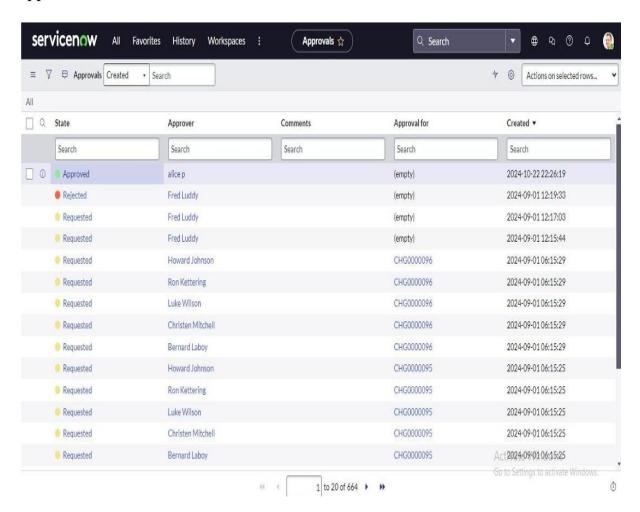
6. Click on Done.



Next step:

- 1. Now under Actions.
- 2. Click on Add an action.
- 3. Select action in that, search for "ask for approval".
- 4. In Record field drag the fields from the data navigation from Right side
- 5. Table will be auto assigned after that
- 6. Give the approve field as "status"

- 7. Give approver as alice p
- 8. Click on Done.
- 9.Go to application navigator search for task table.
- 10. It status field is updated to completed
- 11.Go to application navigator and search for my approval
- 12.Click on my approval under the service desk.
- 13. Alice p got approval request then right click on requested then select approved



Conclusion:

This approach provides a streamlined system for managing projects by defining roles, applying access restrictions, and organizing workflows. It helps the team collaborate effectively, improves accountability, simplifies task tracking, and ensures successful project delivery.