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Problem Statement:

In a small project management team consisting of a Project Manager (Alice) and a Team Member (Bob), there is a need to efficiently manage project tasks and ensure accountability throughout the project lifecycle. The current system lacks clear role definitions, access controls, and a structured workflow, leading to confusion regarding task assignments and progress tracking.

Objective:

The project aims to design and implement a streamlined framework for managing users, groups, and roles in an enterprise system, with robust access control policies and automated workflows. This ensures secure, efficient, and role-based access to resources, thereby improving system governance, reducing administrative overhead, and enhancing compliance with organizational and regulatory requirements.

Skills:

- ➤ Technical Skills: User, group, and role management, access control (RBAC), workflow automation, IAM tools (ServiceNow/Active Directory), scripting for automation, audit & compliance management.
- > Soft Skills: Problem-solving, analytical thinking, project management, teamwork, documentation, and attention to detail

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

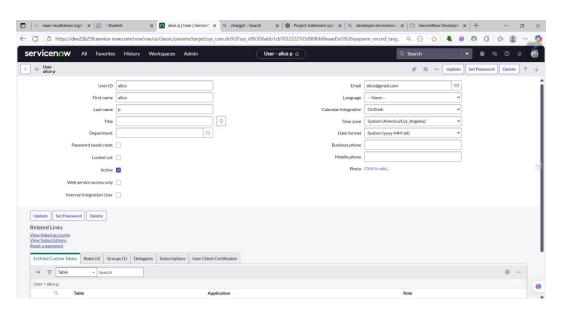


Fig 1.1 Creating user1

Create one more user:

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

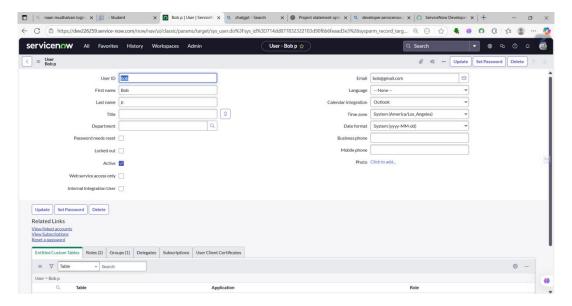


Fig 1.1 Creating user2

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 Project Title

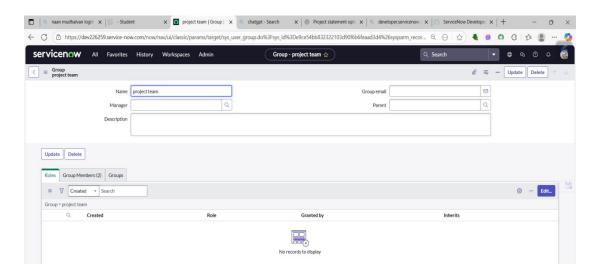


Fig 2.1 Creating groups

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

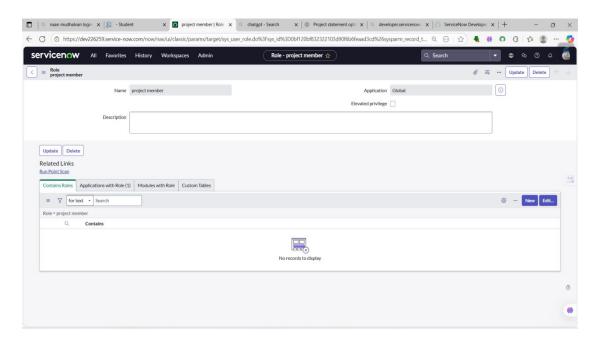


Fig 3.1 Creating roles

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

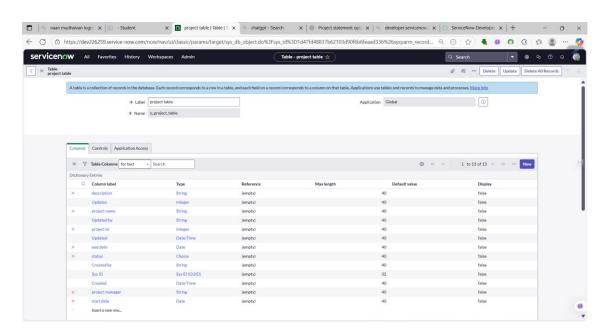


Fig 4.1 Creating table1

Create one more table:

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

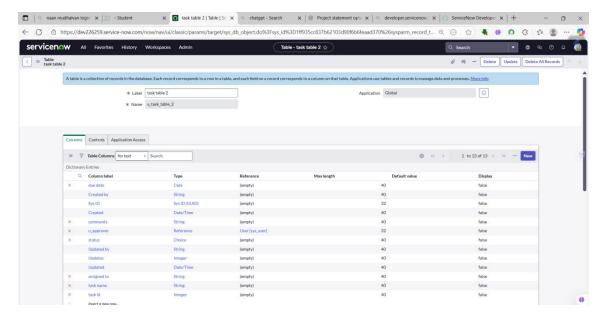


Fig 4.2 Creating table2

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

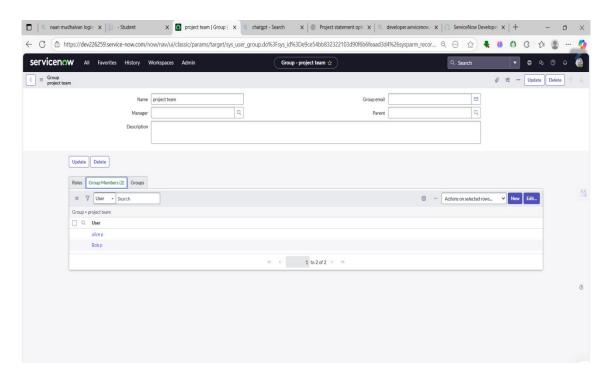


Fig 5.1 Assigning users to groups

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.

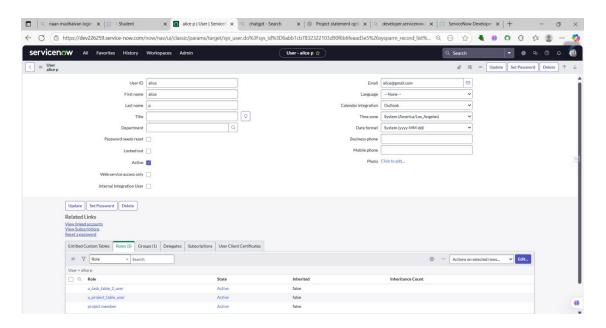


Fig 6.1 Assigning roles to alice

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.

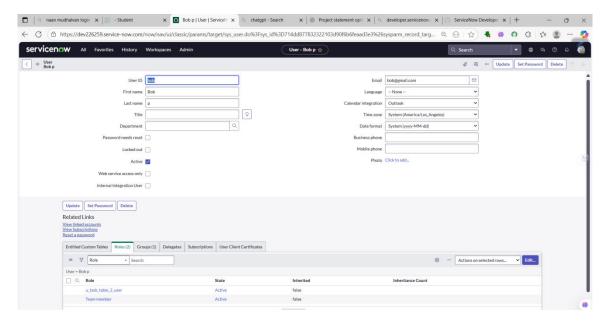


Fig 6.2 Assigning roles to bob

Milestone 7: Application access

Activity 1: Assign table access to application

- 1. while creating a table it automatically create a 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

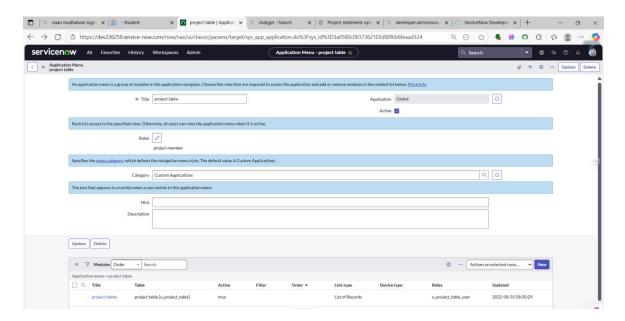


Fig 7.1 Assigning table access to project table

- 5. Search for task table2 and click on edit application.
- 6. Give the project member and team member role for task table 2 application

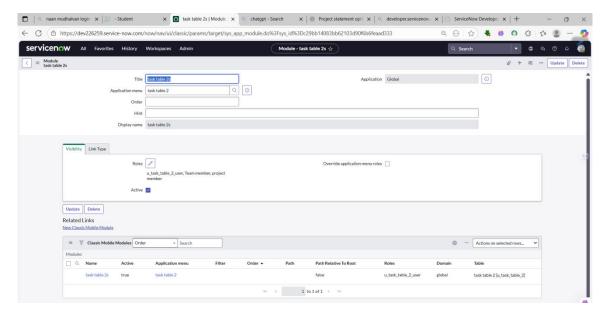


Fig 7.2 Assigning table access to task table2

Milestone 8: Access control list

Activity 1: Create ACL (Access Control)

- 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

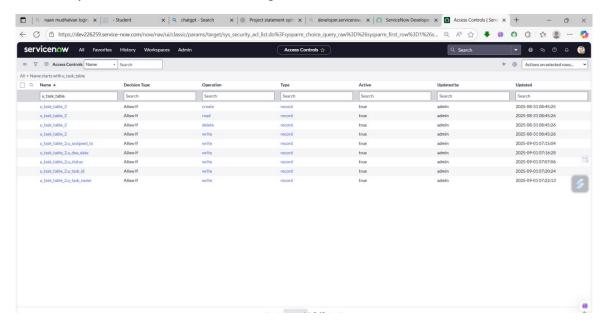


Fig 8.1 Creating similar 4 ACL

- 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 are have the edit access

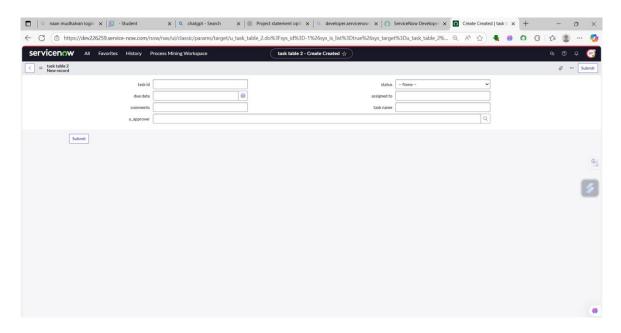


Fig 8.2 Task table2 with comment and status fields have the edit access

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

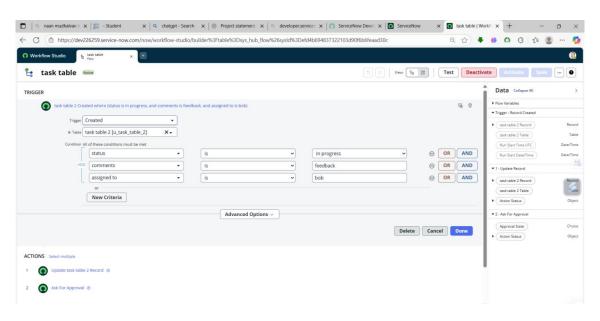


Fig 9.1 Create record

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.

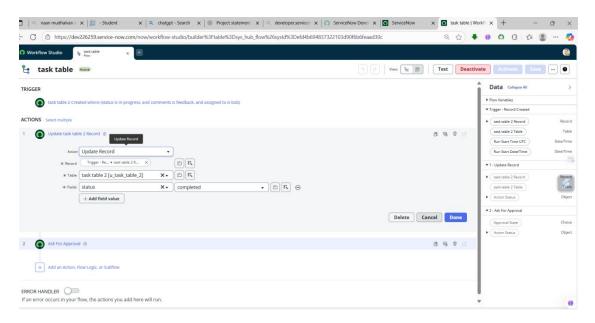


Fig 9.2 Update record

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.

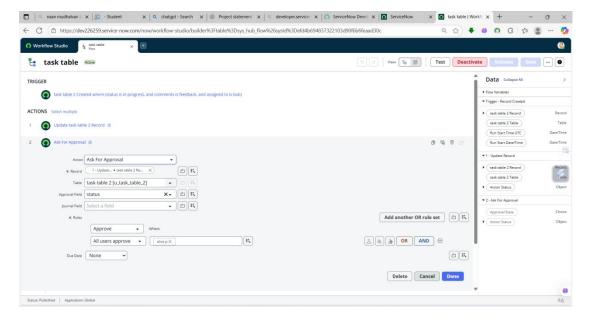


Fig 9.3 Approval record

- 9.Go to application navigator search for task table.
- 10.It status field is updated to completed

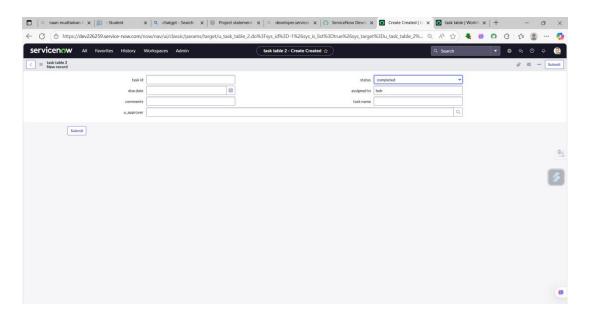


Fig 9.4 Checking status field

- 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

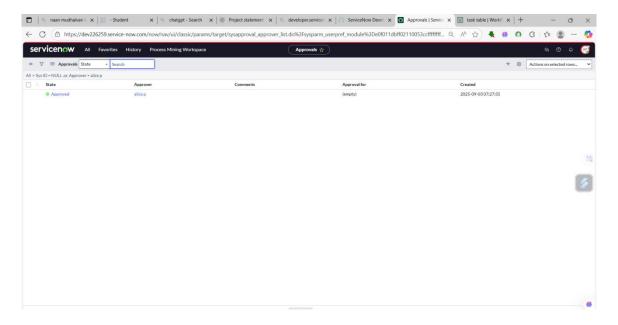


Fig 9.5 Checking for approval of alice

Conclusion:

This project on **optimizing user**, **group**, **and role management with access control and workflows** has shown the importance of establishing a structured approach to identity and access management within organizations. By implementing role-based access control (RBAC), the system ensures that users receive the right access at the right time, reducing the risks of unauthorized activities and maintaining the principle of least privilege.

The introduction of **workflow automation** further enhanced efficiency by streamlining processes such as onboarding, approvals, and de-provisioning. This not only reduced manual effort but also improved accuracy and accountability, while audit trails and compliance features provided greater transparency for governance. Together, these elements strengthened security while improving overall productivity.

In conclusion, the project demonstrates that effective user and role management is not just a technical necessity but a strategic requirement for modern organizations. By combining access control with automated workflows, organizations can achieve scalability, compliance, and operational efficiency, creating a secure and sustainable framework for managing digital identities.