PROJECT DESIGN

Proposed solution:

Sno	Parameters	Description
1	Problem statement	Modern digital systems, especially in large organizations or platforms, require efficient and secure user management.
2	Idea	In modern organizations, managing access to systems and data is critical for security, compliance, and operational efficiency
3	Novelty	While access control and user management are not new concepts, this solution introduces innovations in automation, intelligence, and scalability that address the limitations of conventional systems. Here's what sets it apart:
4	Social impact	In a digitally connected world, effective access control systems are not just technical tools — they have a significant social and organizational
5	Business model	cloud-based SaaS platform that helps organizations manage users, groups, roles, and access rights with automated workflows, intelligent recommendations, and built-in compliance features
6	Scalability of solution	Scalability refers to the ability of the system to handle growth — in users, roles, permissions, workflows, integrations, and audit requirements — without compromising performance, usability, or security.

MILESTONE -1: Users

Purpose. :Ensure only authorized users can access sensitive data and systems. Minimize risk of data breaches by applying the principle of least privilege. Improve Operational Efficiency Automate user provisioning and de-provisioning. work through predefined workflows and access rules.

USE. :Ensure only the right people can access specific systems, applications, or data based on their roles.Prevent unauthorized access or internal misuse.

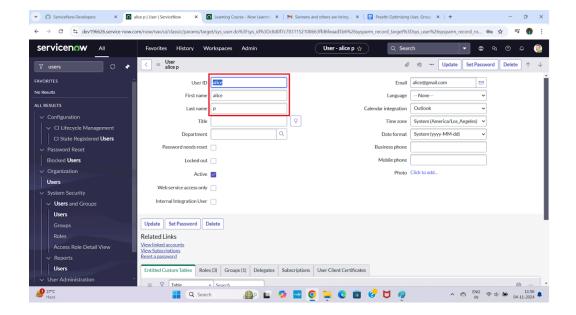
ACTIVITY -1.: create Users

STEPS:

- 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

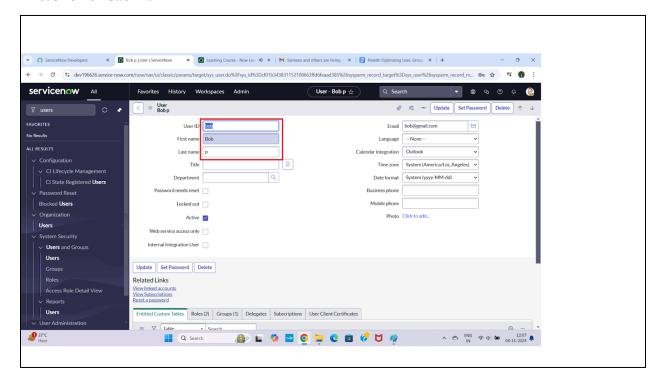
New User

6.Click on submit



.Create one more user:

- 9. Create another user with the following.
- 10.Click on submit



MILESTONE -2: Groups

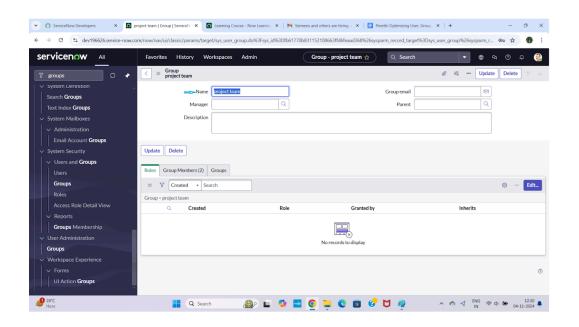
ACTIVITY -1. : Create groups

PURPOSE. :Groups simplify user management by allowing administrators to manage users in bulk

USE. :Groups improve access control by allowing administrators on the user's role or group membership.

STEPS.

- 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

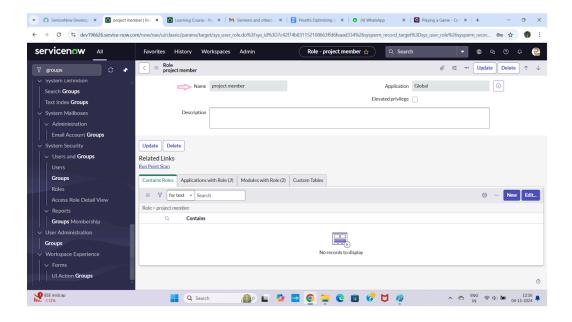
ACTIVITY -1 :create roles

PURPOSE. :A technology stack, or tech stack, refers to the combination of programming languages, frameworks, libraries, and tools used to build and operate a software application or system

USE. :Optimizing user group role management with access control and workflow involves strategically using roles to streamline access to resources and tasks within an organization. This approach, often referred to as Role-Based Access Control (RBAC), significantly enhances security, efficiency, and compliance

STEPS. :

- 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. : Tables

ACTIVITY -1. :create tables

PURPOSE. : Tables can be used to manage user information, including user IDs, names, and roles

USE. : Tables enhance access control by defining access control rules and specifying which users or groups have access to specific resources.

STEPS:

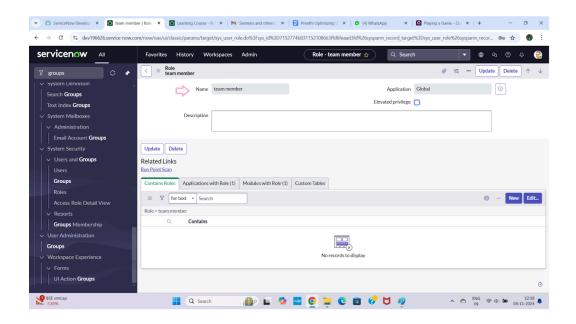
- 1. Open service now.
- 2.Click on All >> search for tables
- 3. Select tables under system definition
- 4.Click on new
- 5. Fill the following details to create a new table

Label: project table

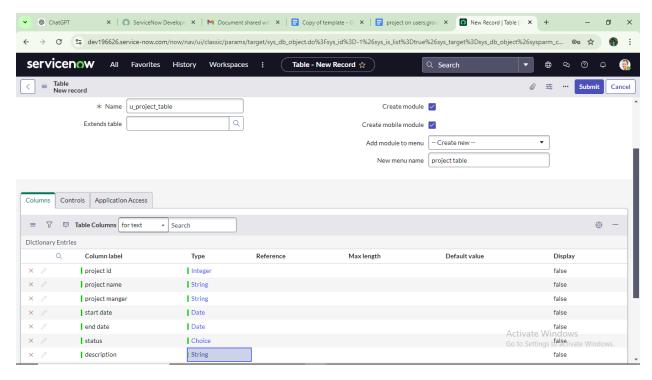
Check the boxes Create module & Create mobile

module

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

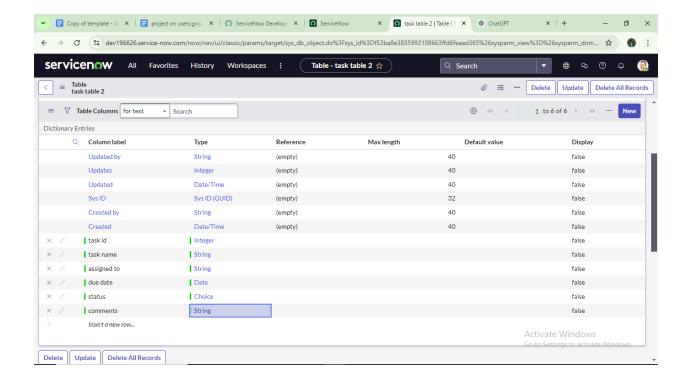


8.Click on submit



Create one more table

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



MILESTONE -5. : Assign users to group

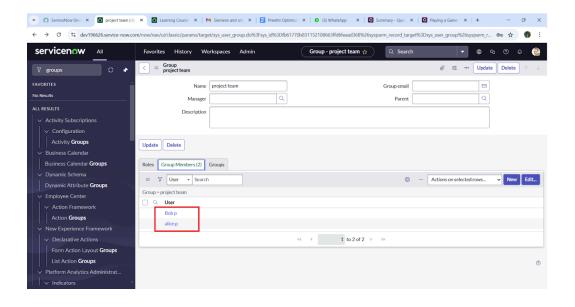
ACTIVITY -1. : Assign users to projectTeamgrups

PURPOSE. : Optimizing user group role management with access control and workflows involves strategically assigning users to groups based on their roles and responsibilities, then implementing access controls to grant appropriate permissions to those groups

USE. :Optimizing user group role management with access control and workflow involves strategically organizing users into groups, defining roles with specific permissions, and implementing workflows to streamline access provisioning.

STEPS.:

- 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

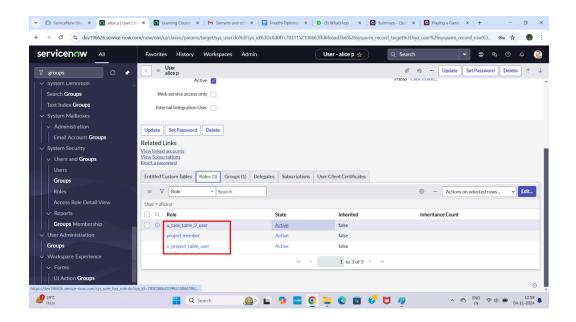
ACTIVITY -1 : Assign roles to Alice users

PURPOSE. :Roles are assigned to users during the user management process, ensuring that users have the necessary permissions and access to perform their job functions.

USE. : Assigning roles to users controls access to resources, ensuring that users only have access to the resources they need to perform their job functions.

STEPS:

- 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 users

STEPS.

- 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 table2.

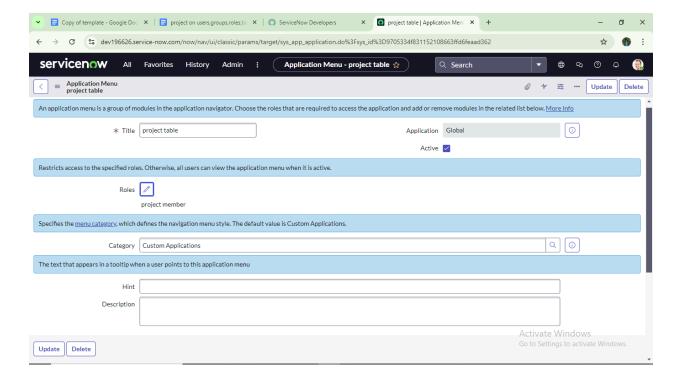
MILESTONE-7: Application Access

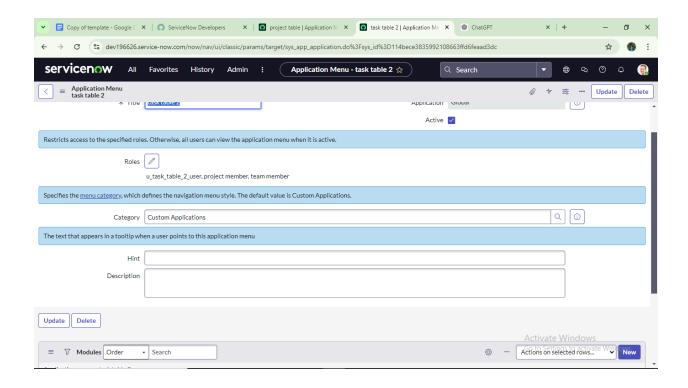
ACTIVITY -1.: Assign table to Access to application **PURPOSE.**: Application access controls ensure that users only have access to authorized applications and data, protecting sensitive information from unauthorized access.

USE. : Application access controls are used to manage user access to applications, ensuring that users only have access to the applications they need to perform their job functions

STEPS. :

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





MILESTONE-8: Access control list

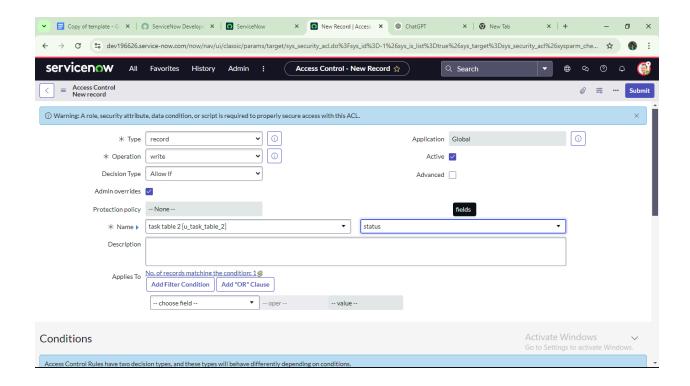
ACTIVITY - 1. : create ACL

PURPOSE. : Optimizing user group role management with access control and workflow access control lists (ACLs).

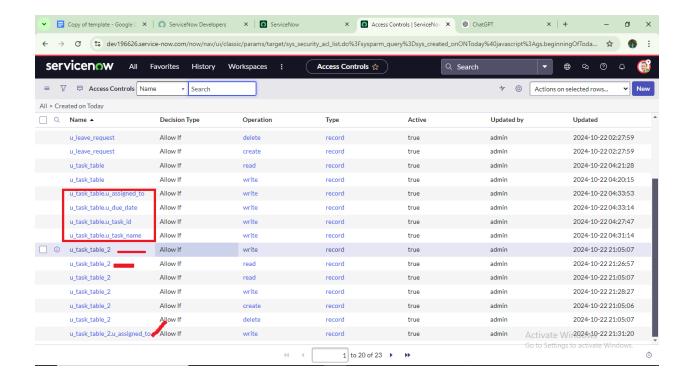
USE. : Optimizing user group role management with access control and workflow access control lists (ACLs) enhances security and streamlines operations by ensuring users only have access to the resources they need.

STEPS.:

- 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

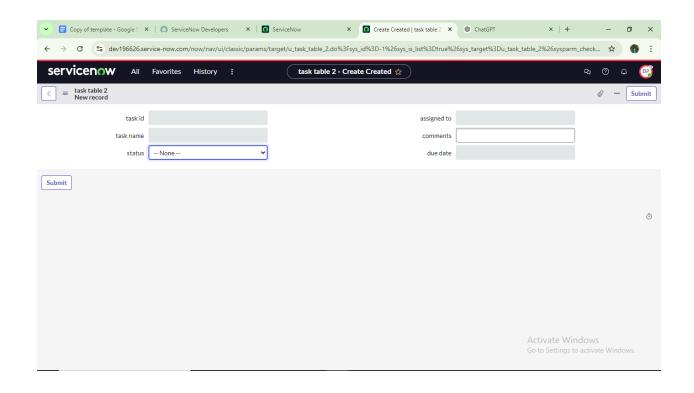


- 7. Scroll down under requires role
- 8. Double click on insert a new row
- 9. Give task table and team member role
- 10.Click on submit
- 11. Similarly create 4 acl for the following fields



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 are have the edit access



MILESTONE-9: Flow

ACTIVITY. : create A flow to assign operations ticket to groups

PURPOSE. : Optimizing user group role management with access control and workflow flow aims to enhance security.

USE. : User group role management with access control and workflow involves creating and managing roles, assigning users to thoseRoles.

STEPS.:

- 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.

MILESTONE-9: Flow

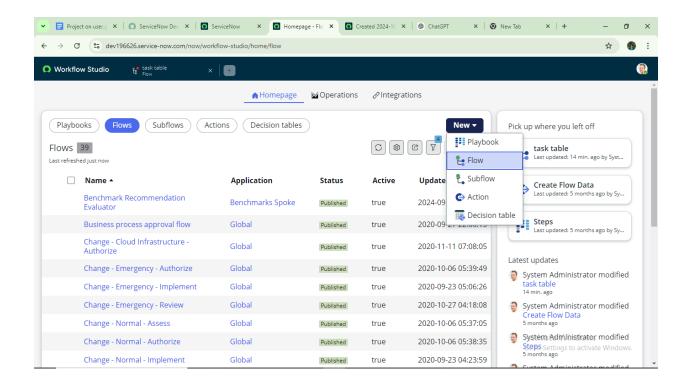
ACTIVITY. : create A flow to assign operations ticket to groups

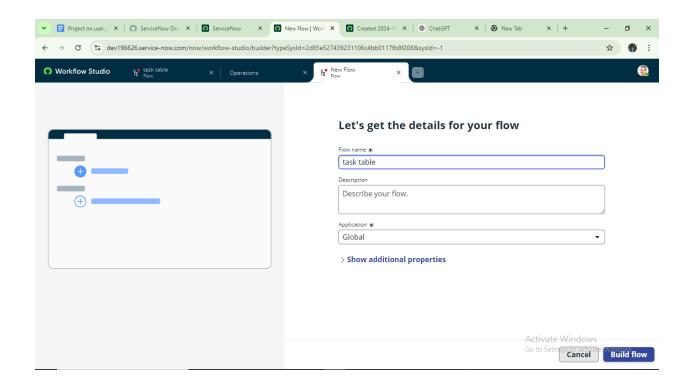
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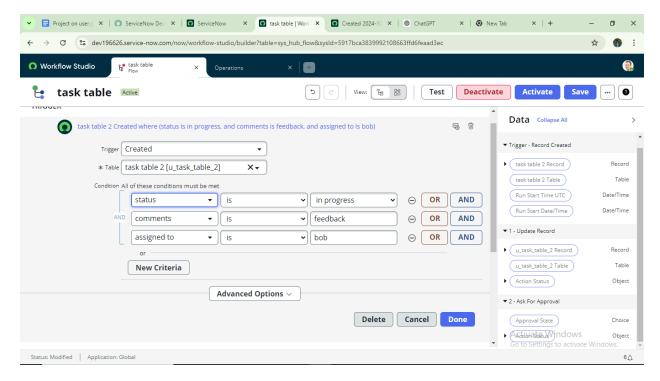
1.Click on Add a trigger

- 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

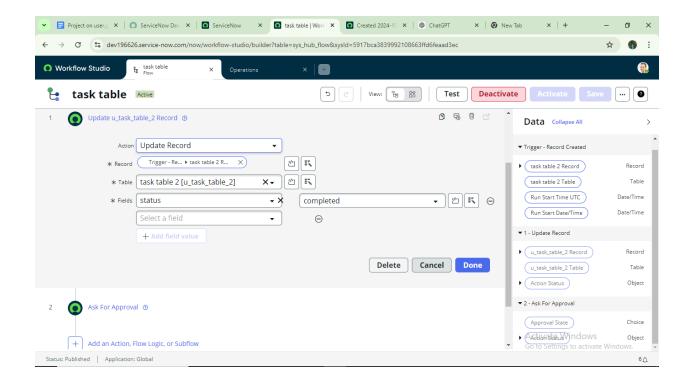
5. After that click on Done.



Next step:

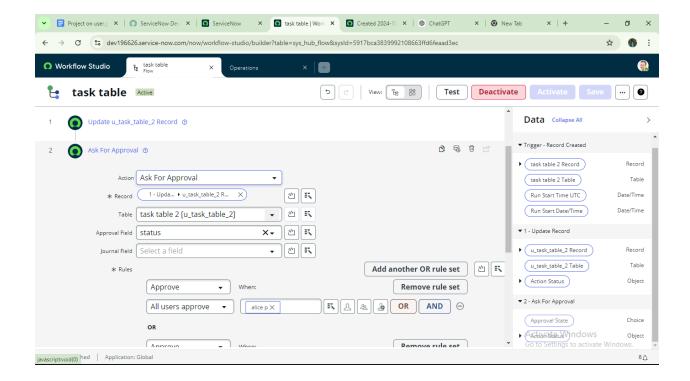
- 1. Click on Add an action.
- 2. Select action in that ,search for "update records".
- 3.In Record field drag the fields from the data navigation from Right Side(Data pill)
- 4. Table will be auto assigned after that
- 5.Add fields as "status" and value as "completed"

Click on Done.

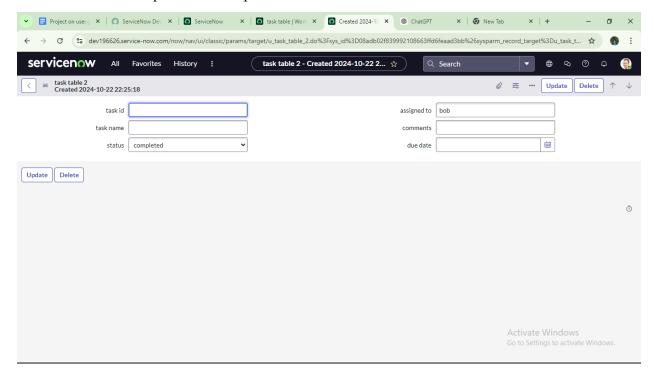


Next step:

- 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.



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



Go to application navigator and search for my approval

Click on my approval under the service desk.

Alice p got approval request then right click on requested then select approved

