
OPTIMIZING USER, GROUP, AND ROLE
MANAGEMENT WITH ACCESS CONTROL
AND WORKFLOWS

Project Title

Team ID : NM2025TMID19138

Team Size : 5

Team Leader : SIDDARTH V

Team member 1 : VIJAYAKUMAR M

Team member 2 : THAMIZHAZHAGAN K

Team member 3 : SURESH V

Team member 4 :

SURYA M

Project Statement:

This project focuses on creating a structured project and task management system within the ServiceNow platform. It involves setting up users, groups, roles, custom tables, access controls, and automated workflows. The system allows seamless collaboration between different roles, such as a project manager (Alice) and a team member (Bob), enabling proper task assignments, approvals, and status tracking in a secure and organized manner.

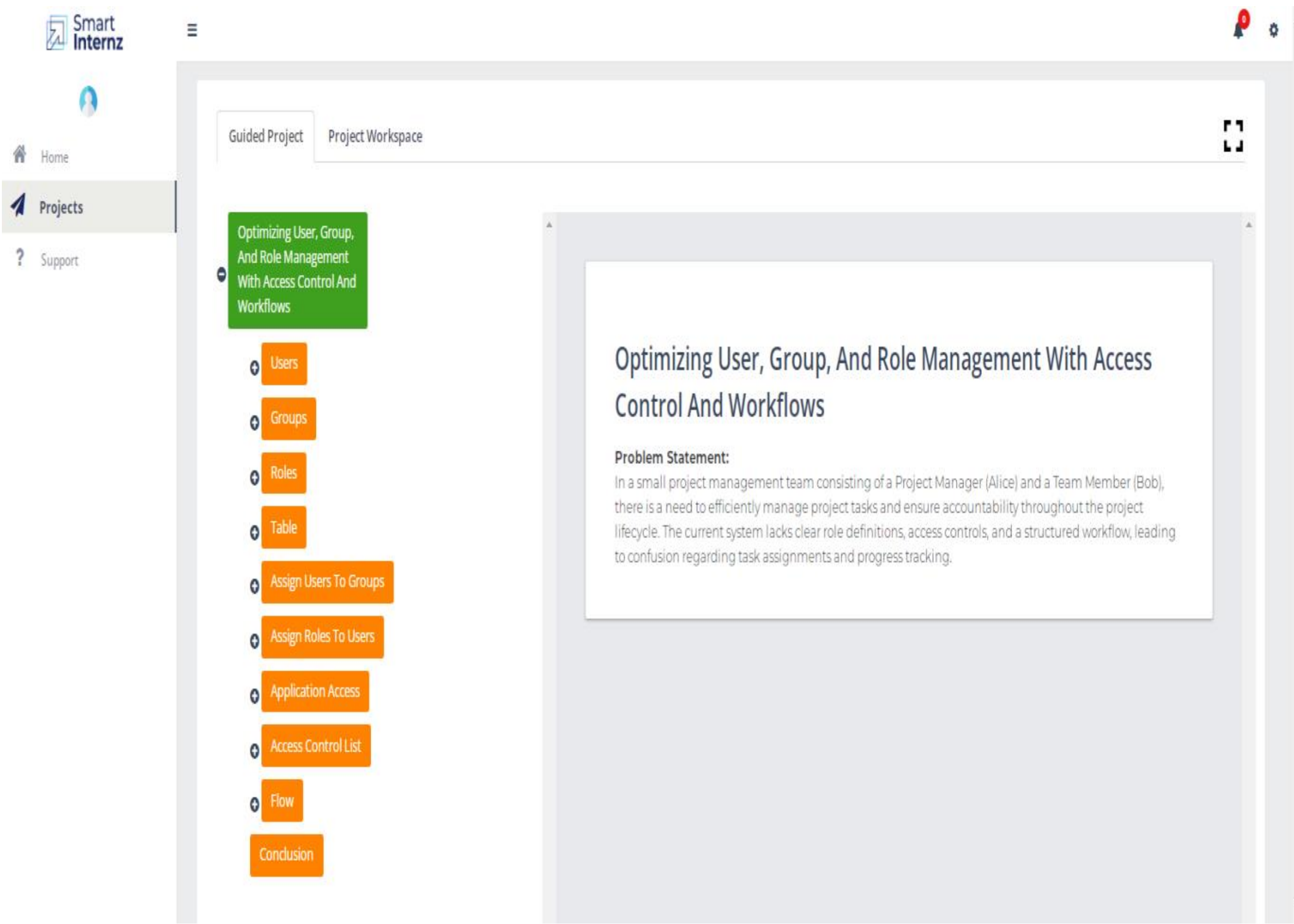
Objective:

The objective is to build a role-based access control system that manages how users interact with project and task data. It includes designing custom tables, configuring modules, assigning users to groups and roles, and setting up workflows that automate actions like updating task status and requesting approvals. The goal is to simulate a real-world team structure that enhances communication, accountability, and workflow efficiency.

Skills:

This project requires hands-on knowledge of the ServiceNow platform, particularly in creating users, groups, roles, and tables. It also requires understanding how to configure Access Control Lists (ACLs) to secure data, and how to use Flow Designer to automate task updates and approvals. In addition to technical skills, basic workflow design, logical thinking, and testing using user impersonation are essential to ensure the system works as intended.

TASK INITIATION:

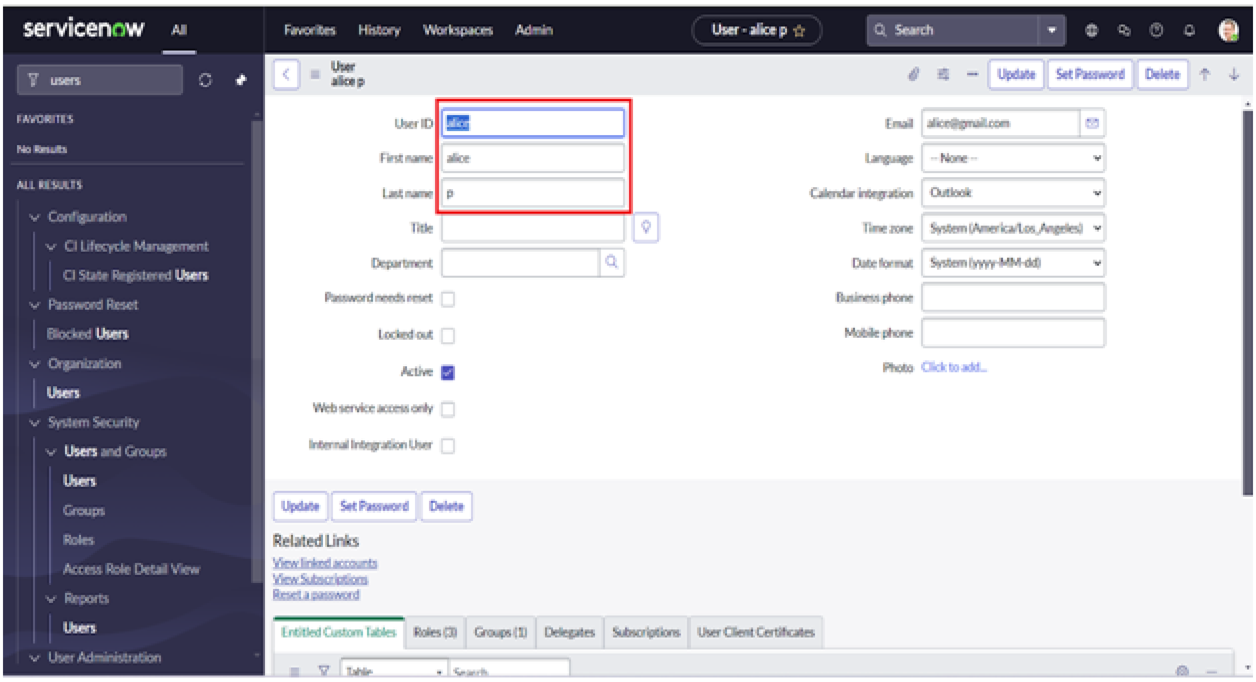


<u>**Step 1 → USER**</u>

Milestone 1 : Users

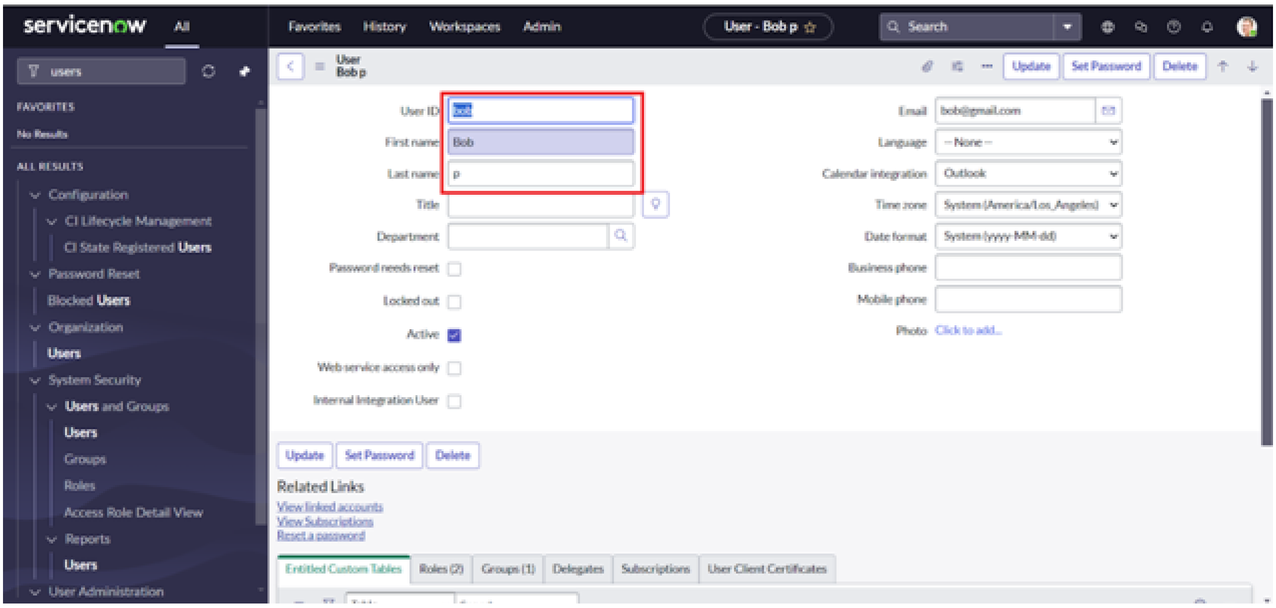
Create Users:

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

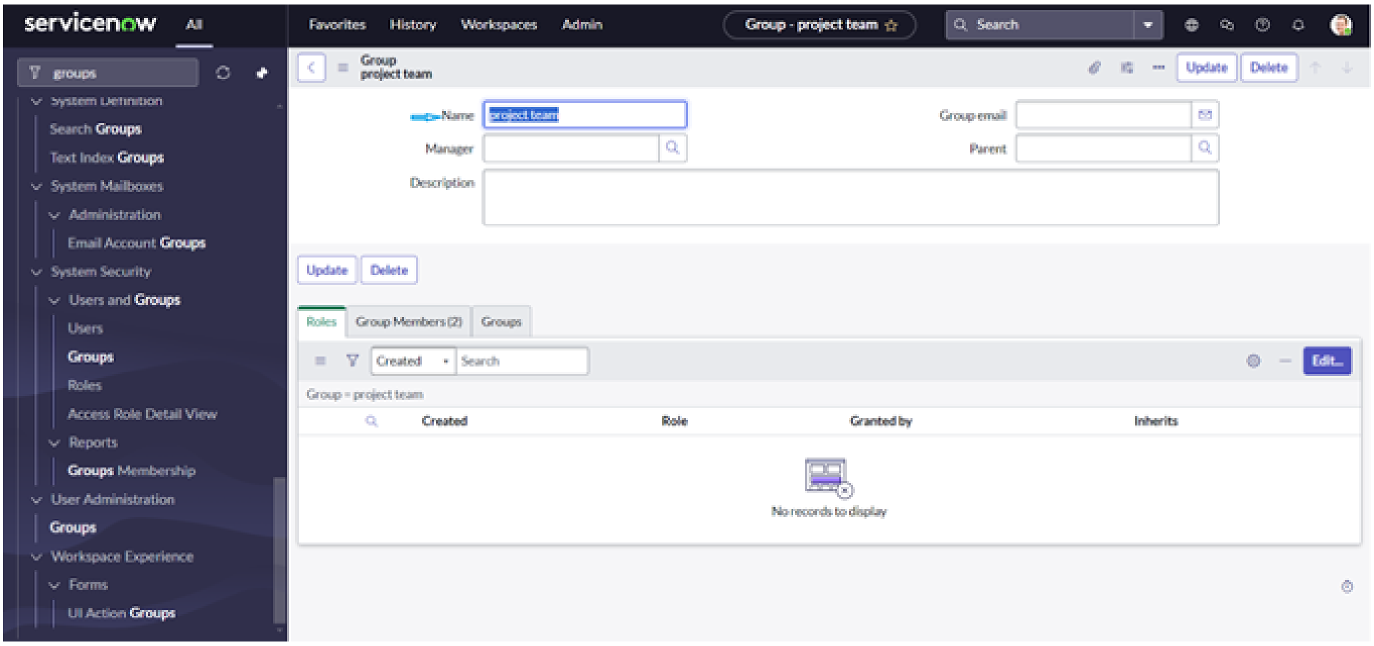


<u>Step 2 → Groups</u>

Milestone 2 : Groups

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



Step 3 → Rolse

Milestone 3 : Roles

Create Roles

1.Open service now.

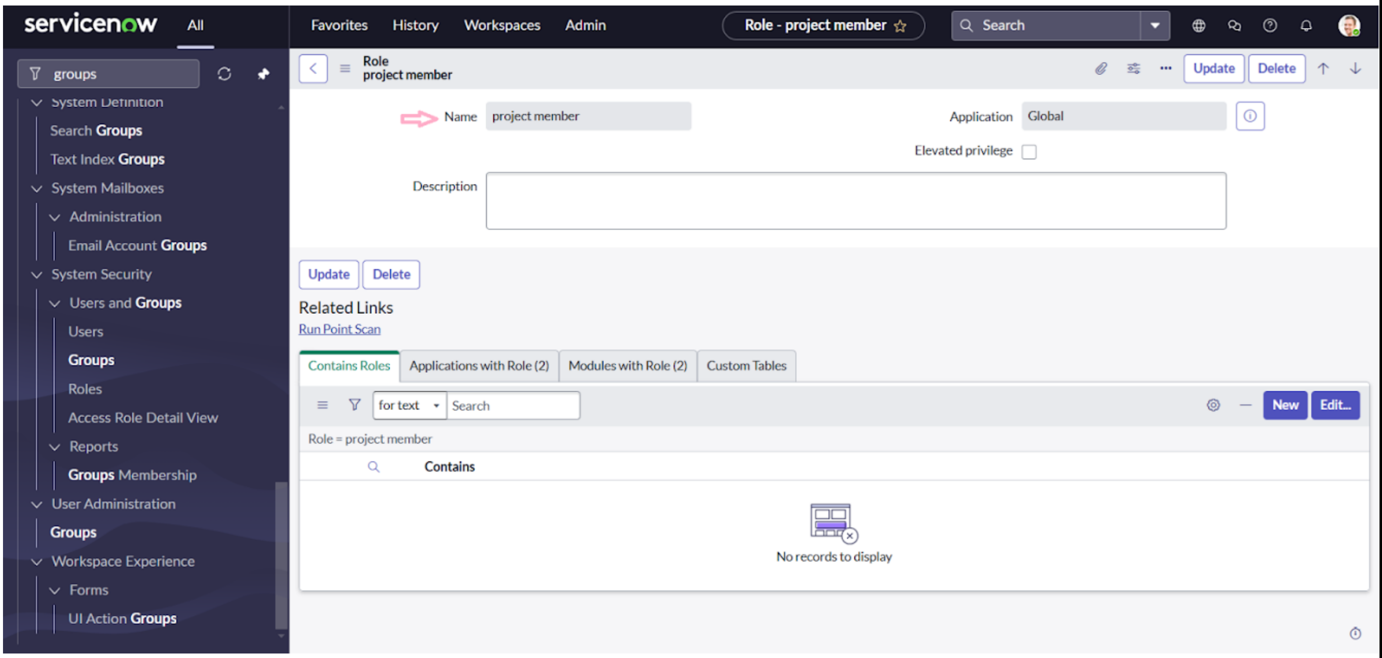
2.Click on All >> search for roles

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:

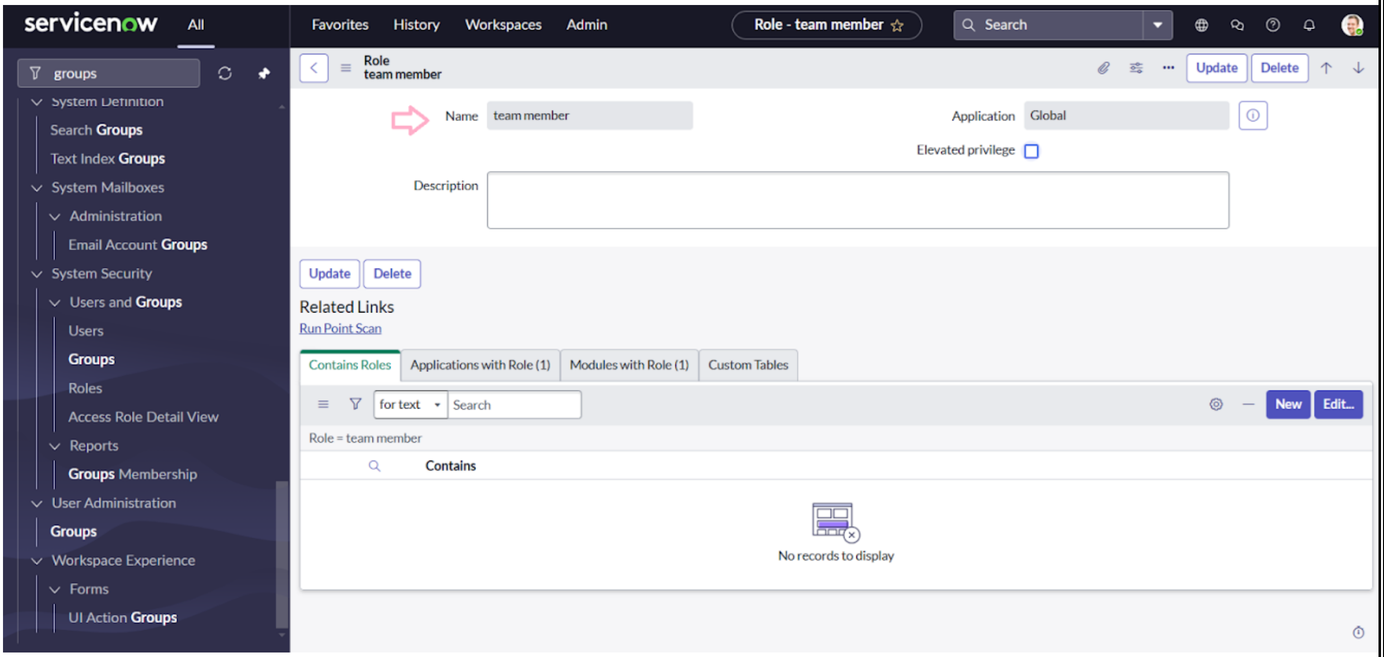
7.Create another role with the following details : Team member
8.Click on submit

Step 4→ Table

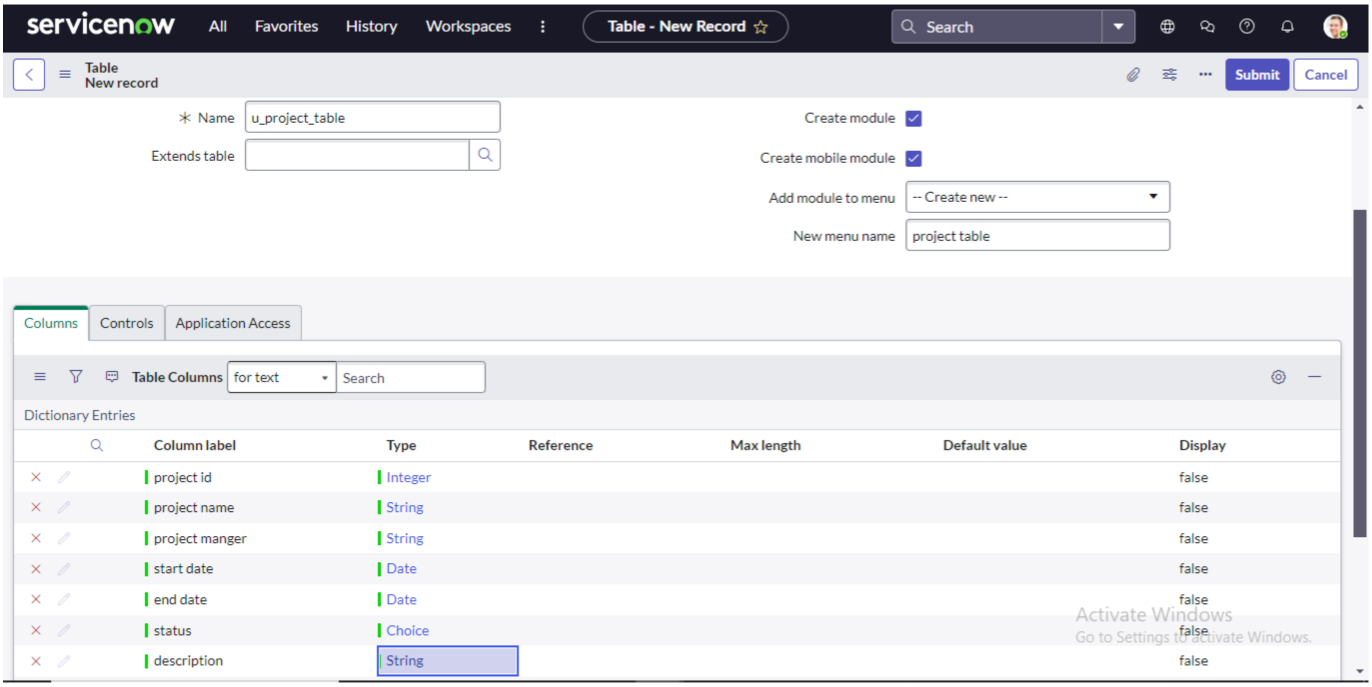
Milestone 4 :

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



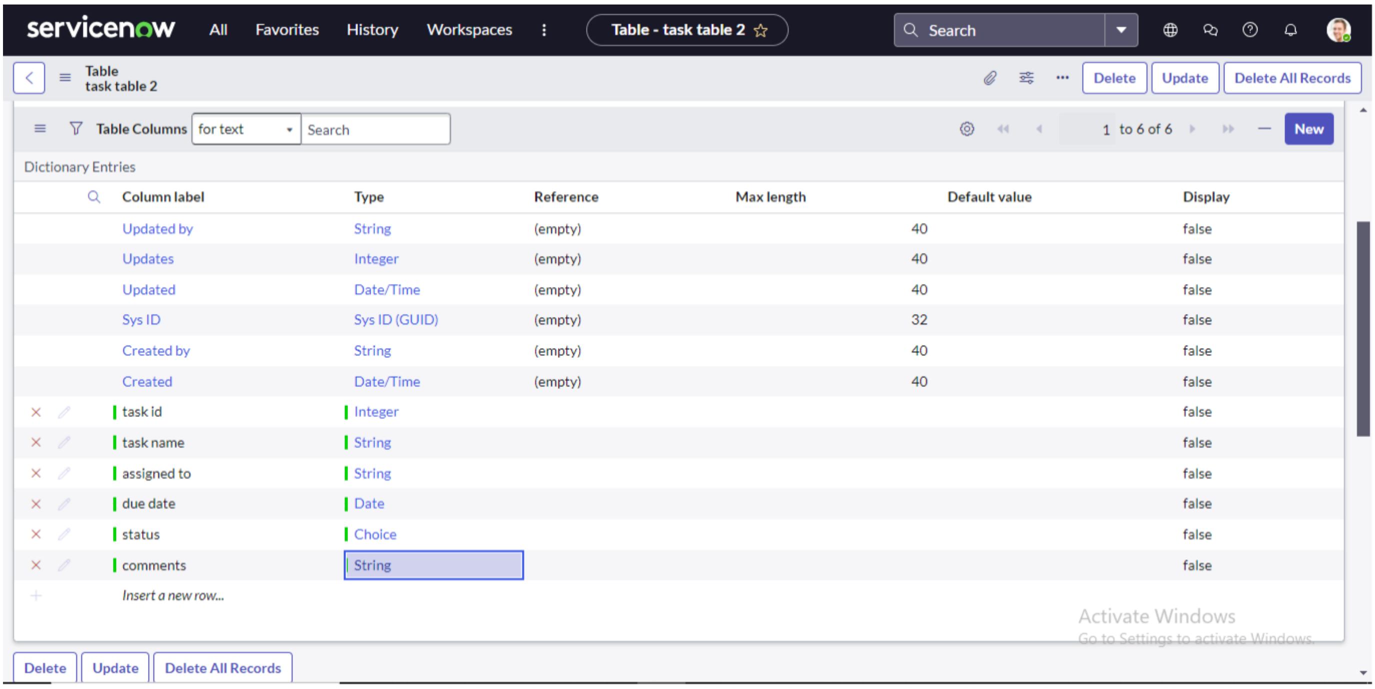
8.Click on submit



Create one more table:

9.Create another table as: task table 2 and fill with following details.

10. Click on submit.

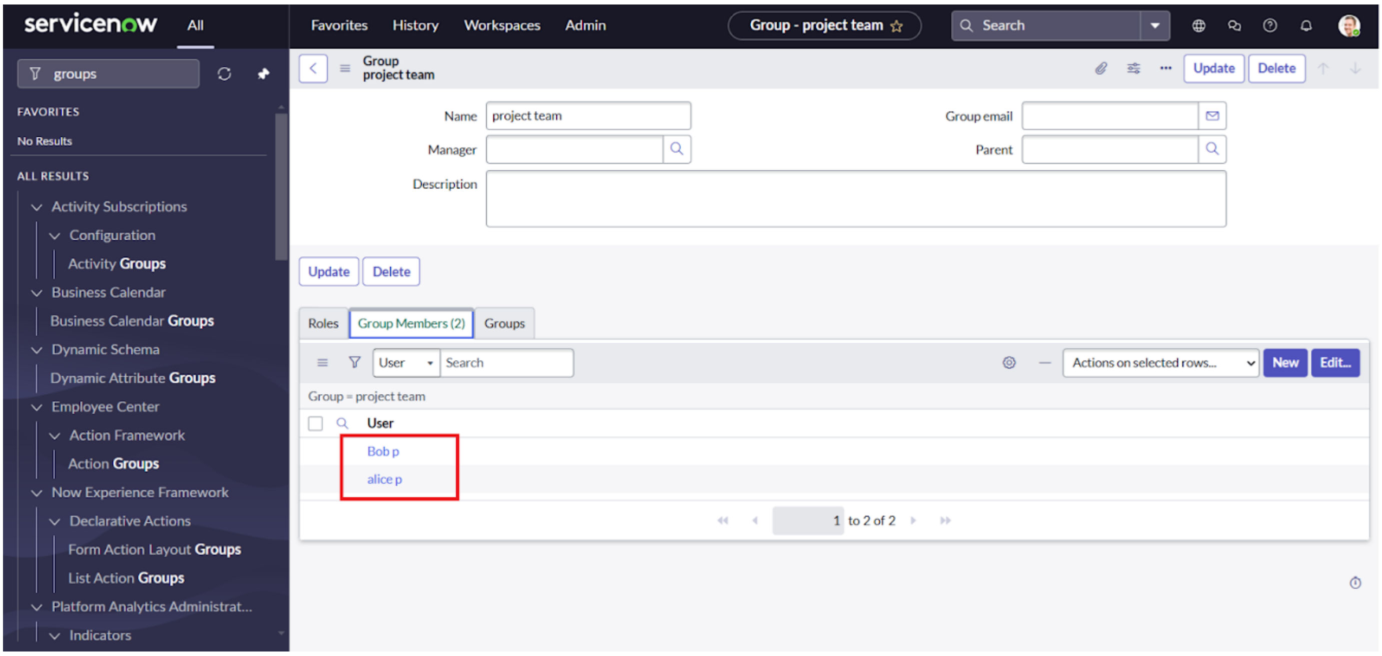


Step 5 → Assign Users To Groups

Milestone 5:

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



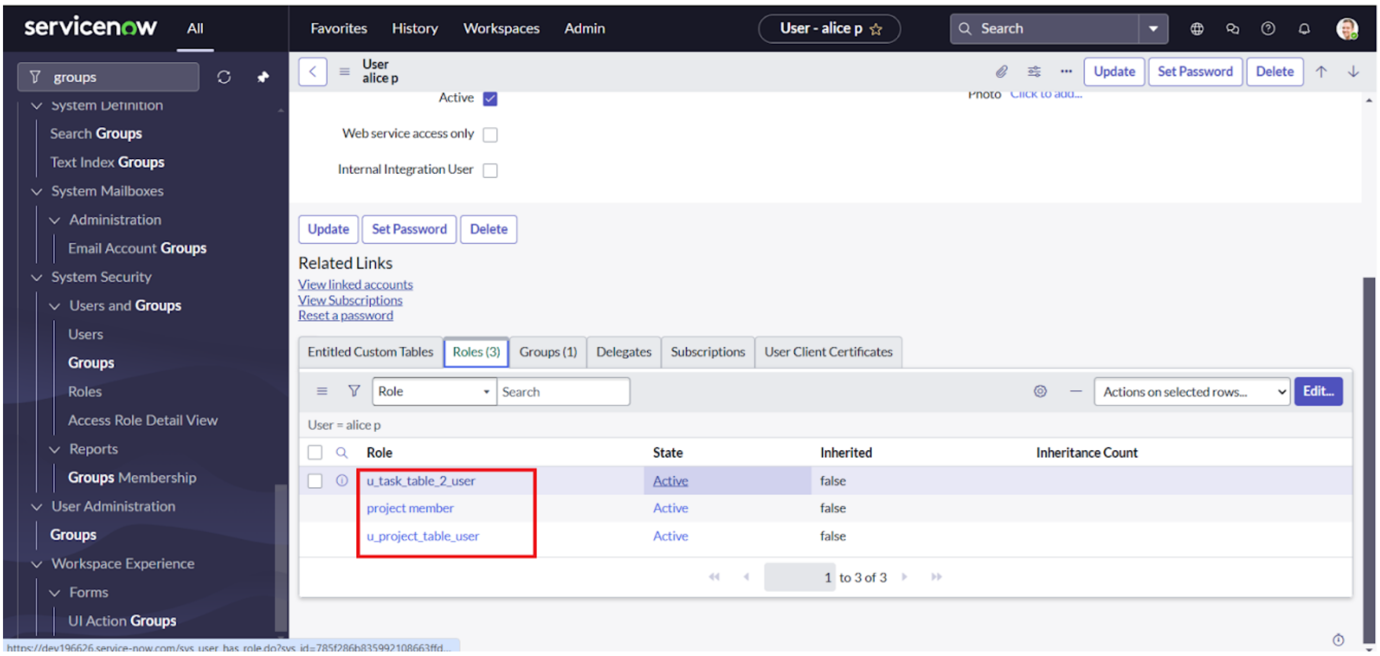
Step 6 → Assign Roles to Users

Milestone 6 :

<u>Assign Roles To Alice User</u>

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

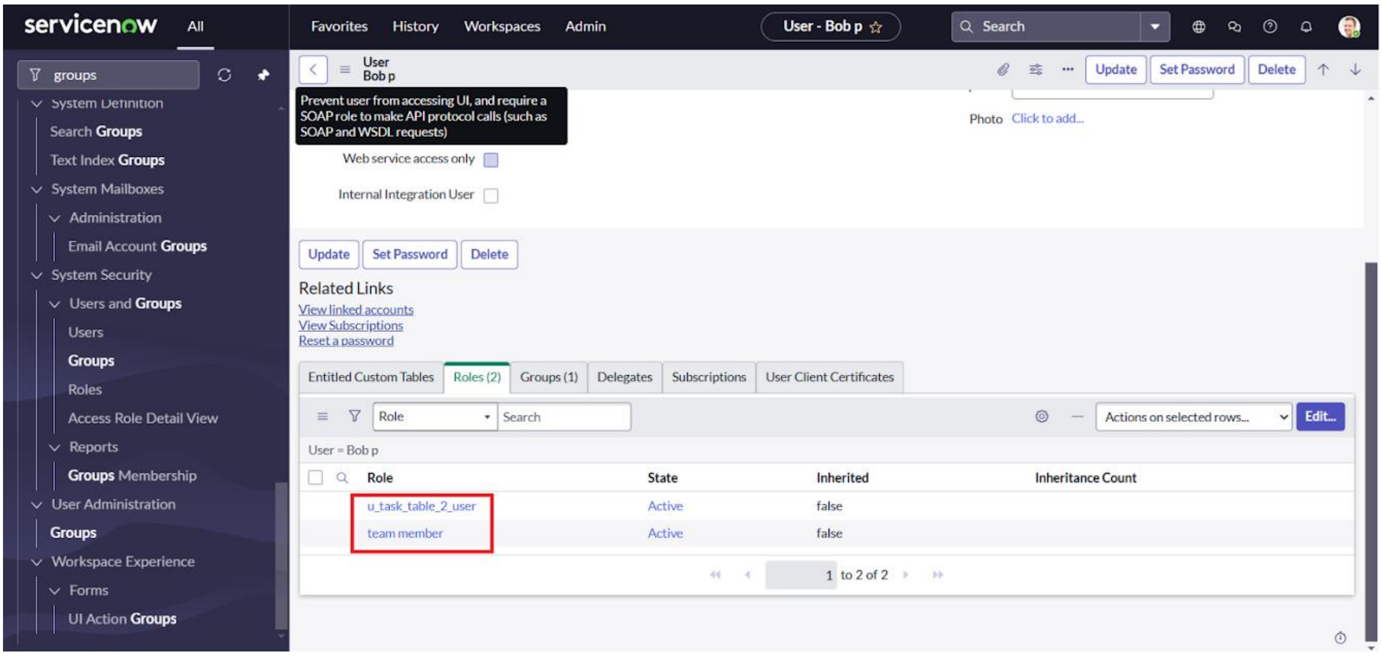
5.Click on edit
6.Select project member and save
7.click on edit add u_project_table role and u_task_table role
8.click on save and update the form.



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 table2.

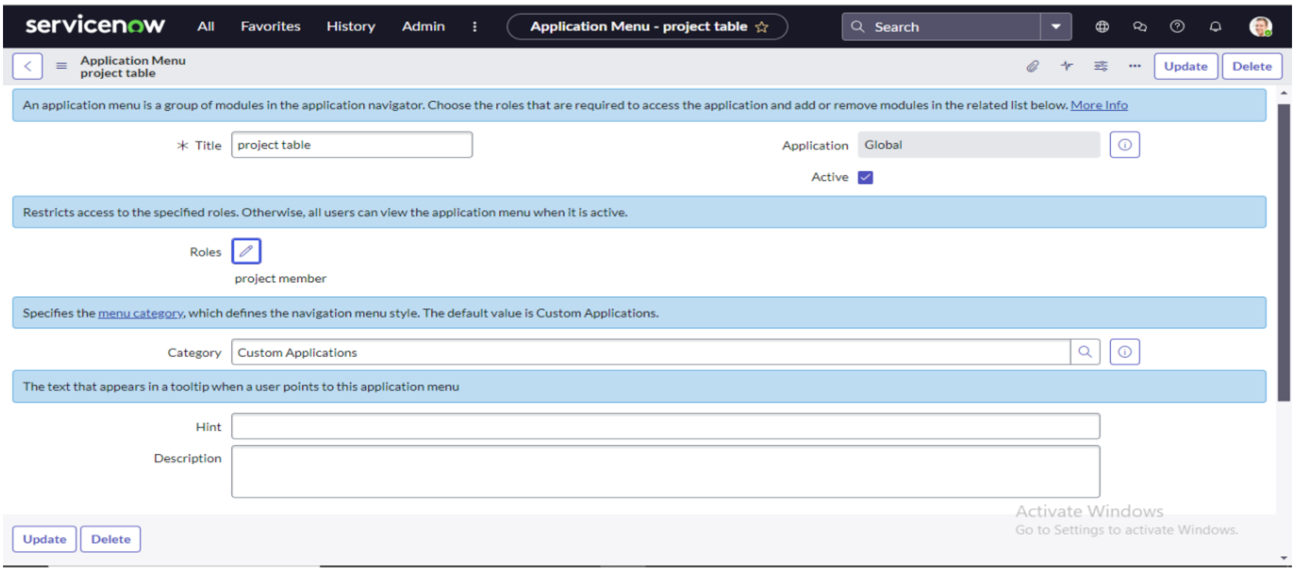


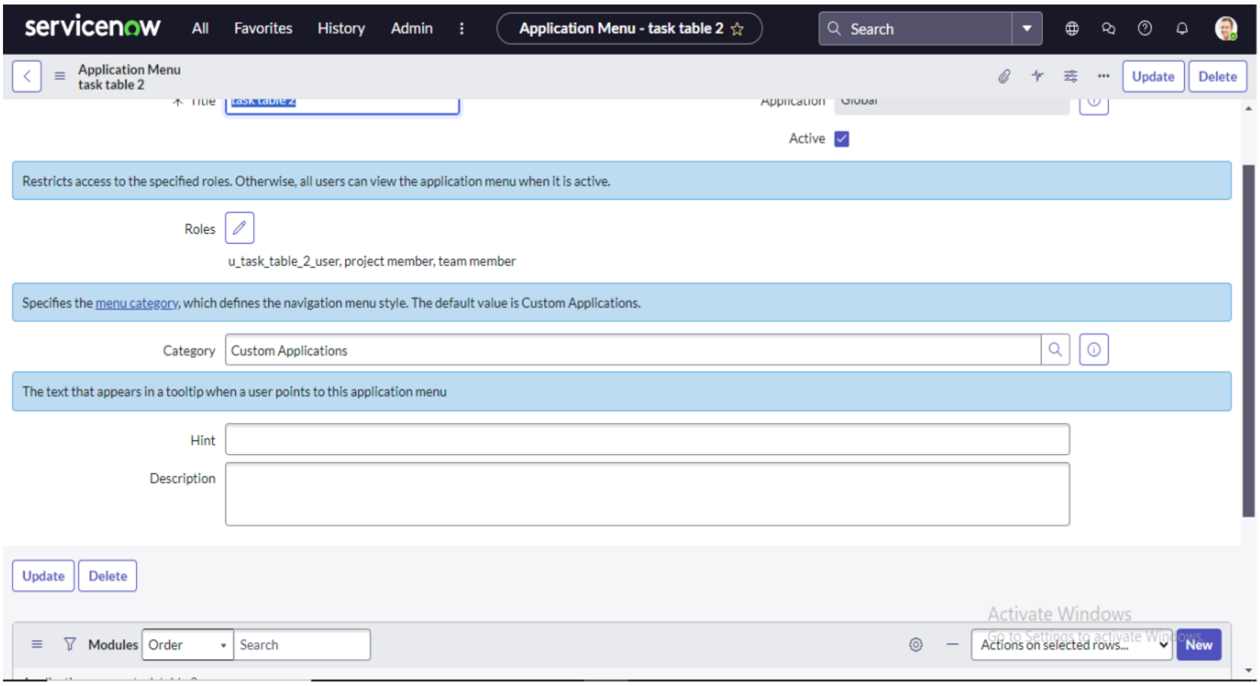
Step 7 → Application Access

Milestone 7:

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



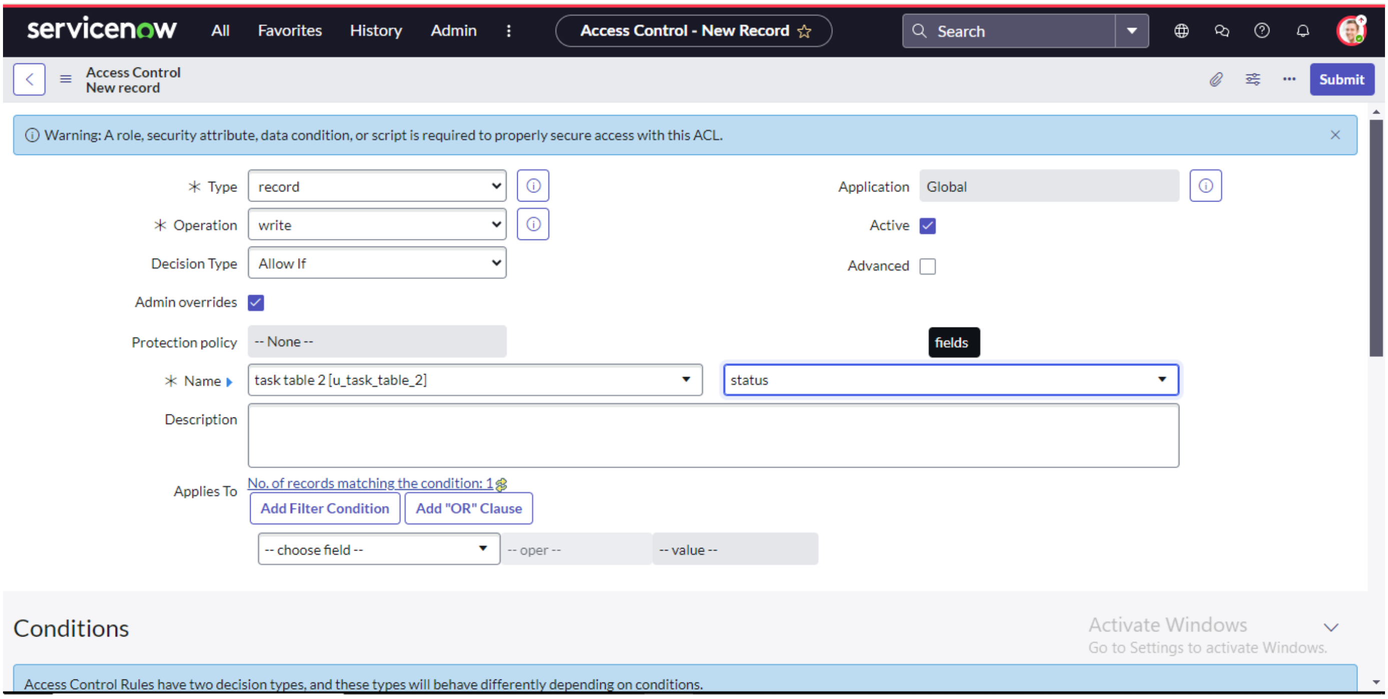


Step 8 → Access Control List

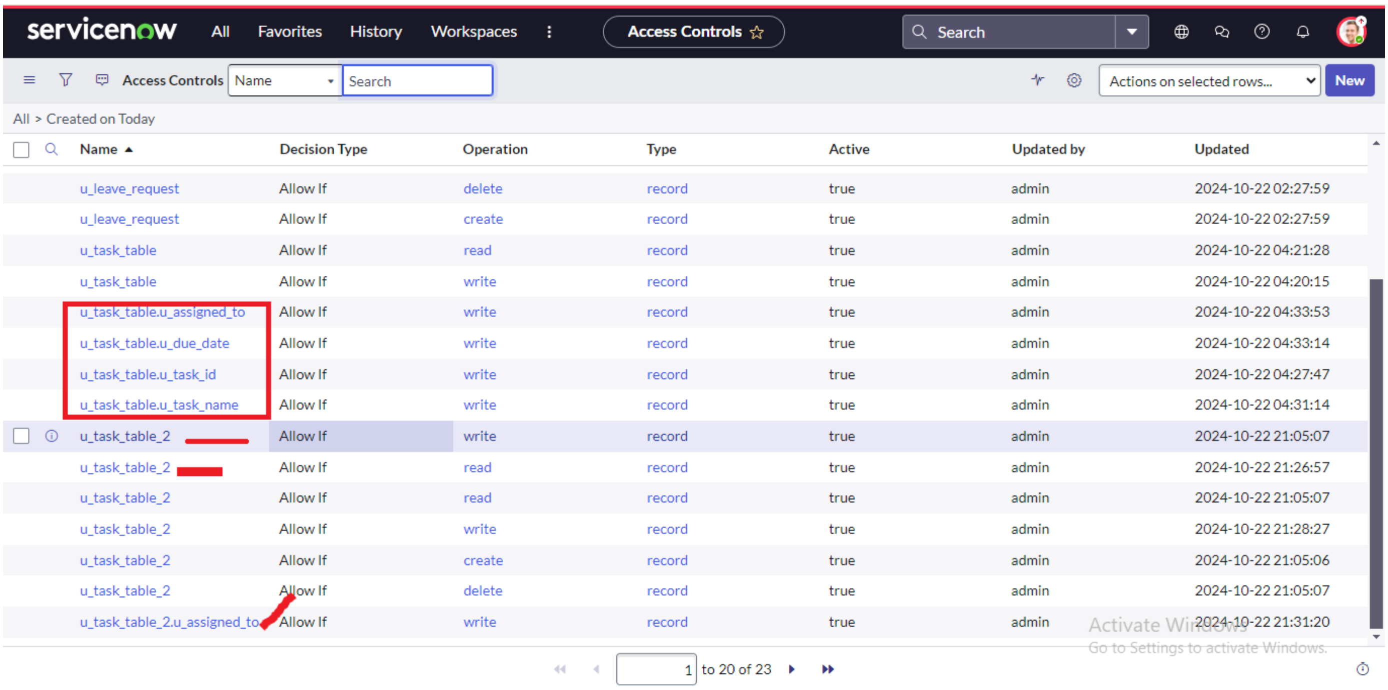
Milestone 8 :

Create ACL

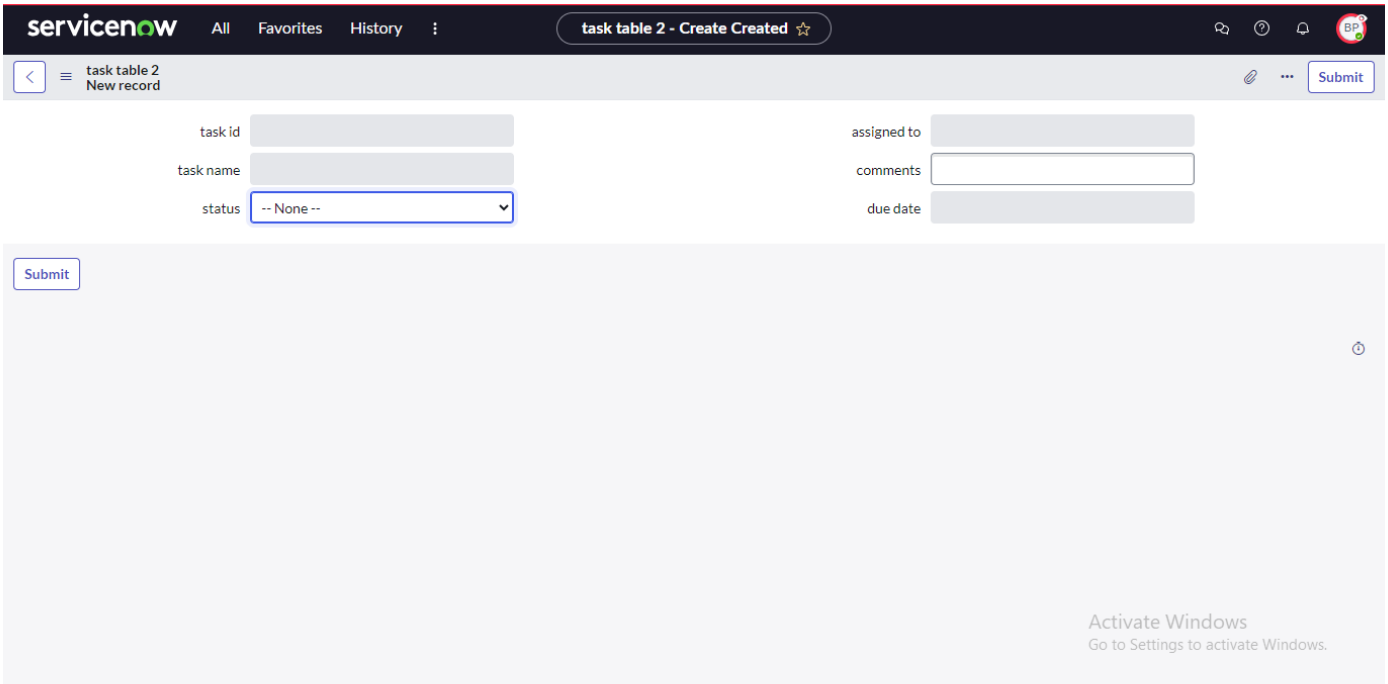
1. Open service now.
2. Click on All >> search for ACL
3. Select Access Control(ACL) under system security
4. Click on elevate role
5. Click on new
6. Fill the following details to create a new ACL



7.Scroll down under requires role
Double
8.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

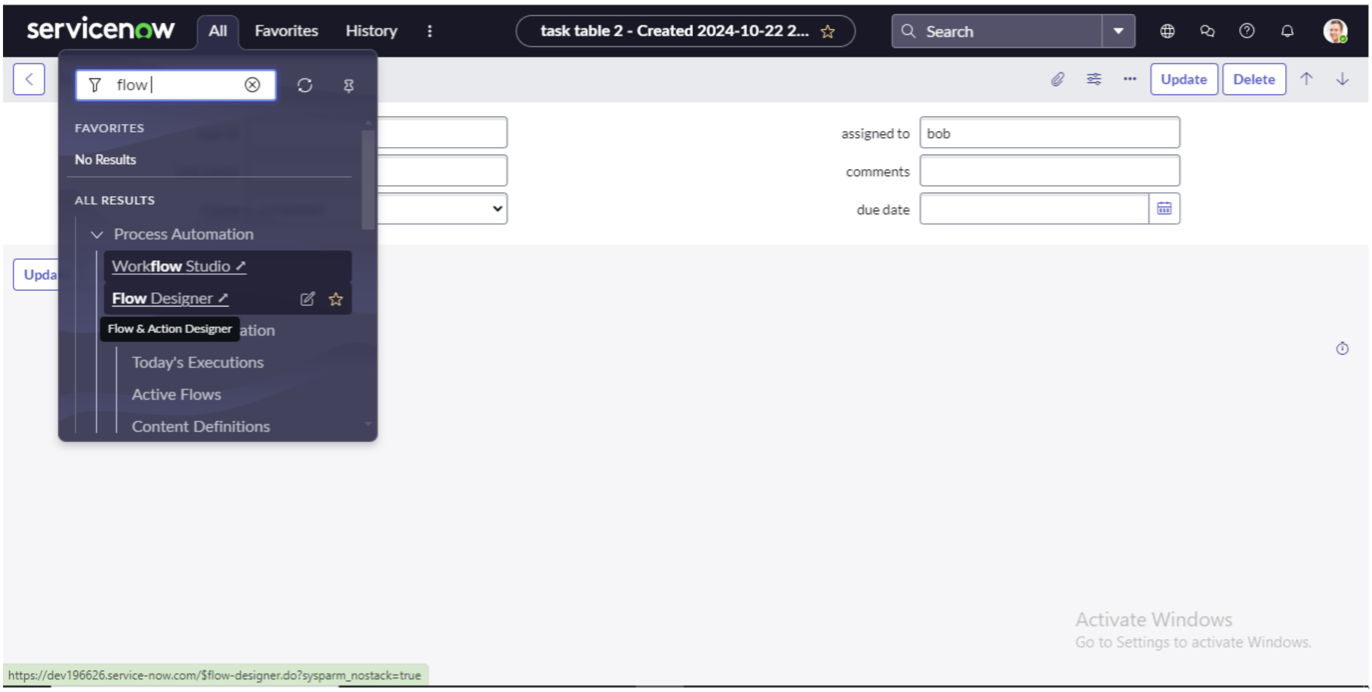


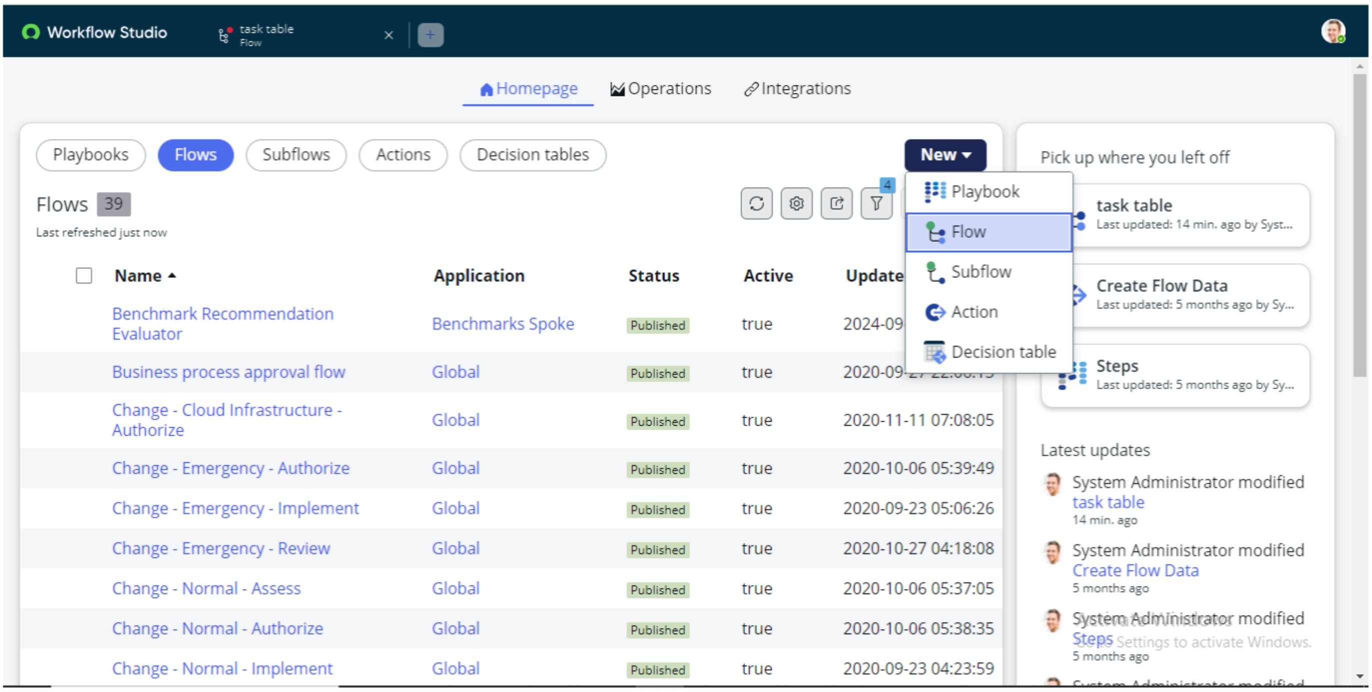
<u>Step 9 → Flow</u>

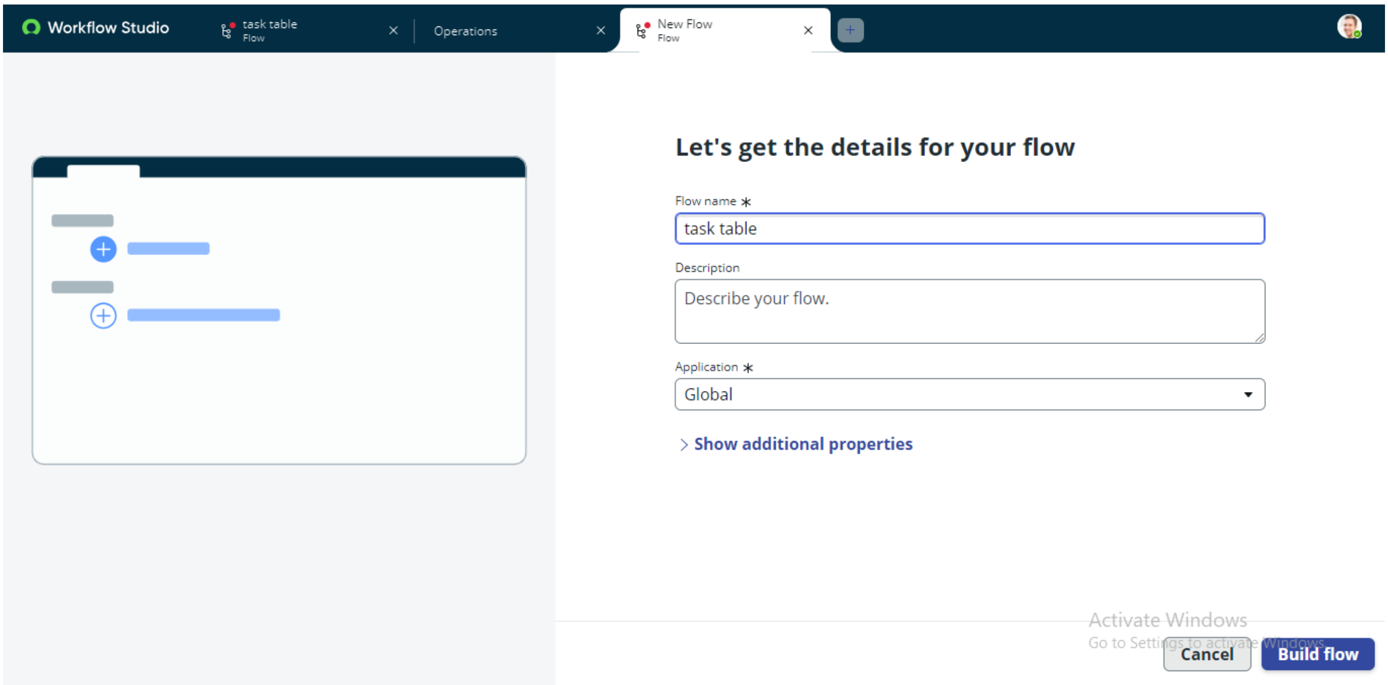
Milestone 9:

_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.


servicenow
All
Favorites
History
task table 2 - Created 2024-10-22 2...
Search
Update
Delete
flow
FAVORITES
No Results
ALL RESULTS
Process Automation
Workflow Studio
Flow Designer
Flow & Action Designer
ation
Today's Executions
Active Flows
Content Definitions
assigned to
bob
comments
due date
Activate Windows
Go to Settings to activate Windows.
https://dev196626.service-now.com/$flow-designer.do?sysparm_nostack=true


Workflow Studio
task table
Flow
Homepage
Operations
Integrations
Playbooks
Flows
Subflows
Actions
Decision tables
New
Playbook
Flow
Subflow
Action
Decision table
Flows 39
Last refreshed just now
Name
Application
Status
Active
Update
Benchmark Recommendation Evaluator
Benchmarks Spoke
Published
true
Business process approval flow
Global
Change - Cloud Infrastructure - Authorize
2020-11-11 07:08:05
Change - Emergency - Authorize
2020-10-06 05:39:49
Change - Emergency - Implement
2020-09-23 05:06:26
Change - Emergency - Review
2020-10-27 04:18:08
Change - Normal - Assess
2020-10-06 05:37:05
Change - Normal - Authorize
2020-10-06 05:38:35
Change - Normal - Implement
2020-09-23 04:23:59
Pick up where you left off
task table
Last updated: 14 min. ago by Syst...
Create Flow Data
Last updated: 5 months ago by Sy...
Steps
Last updated: 5 months ago by Sy...
Latest updates
System Administrator modified
task table
14 min. ago
System Administrator modified
Create Flow Data
5 months ago
System Administrator modified
Steps
5 months ago



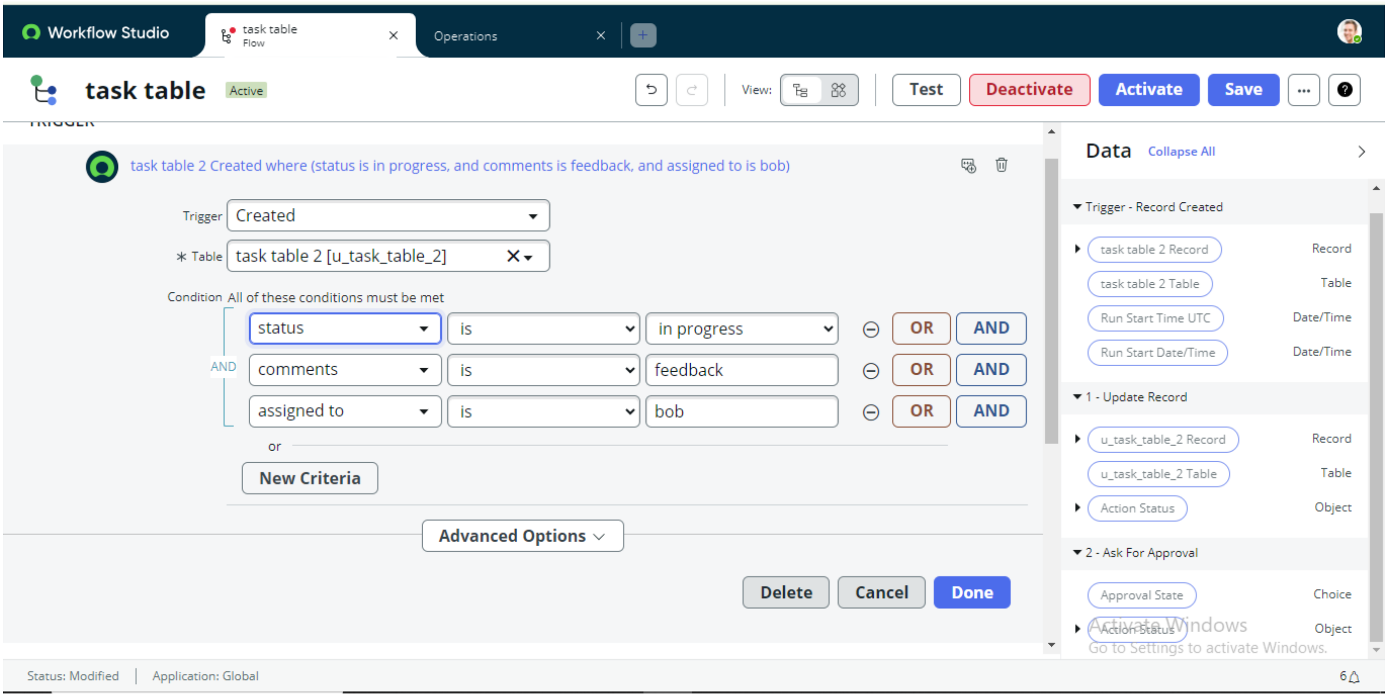
Next step:

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

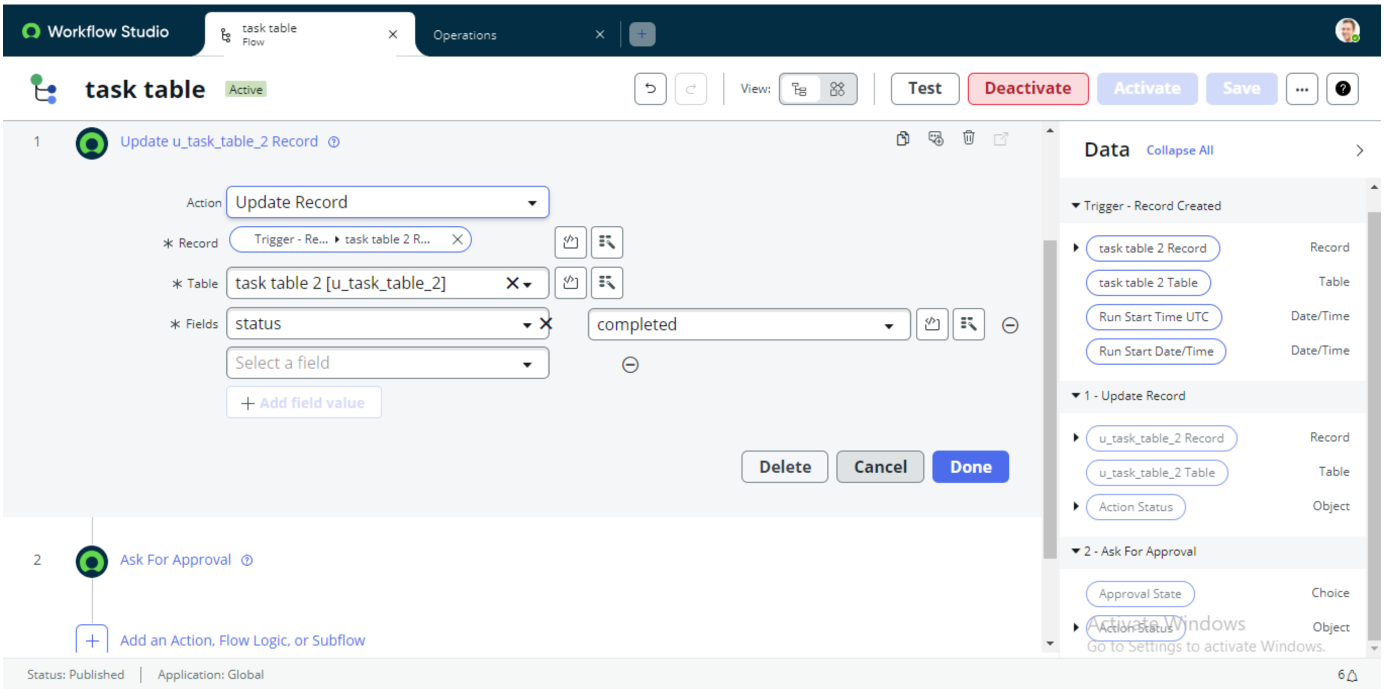
Field : assigned to Operator :is Value : bob

5.After that click on Done.



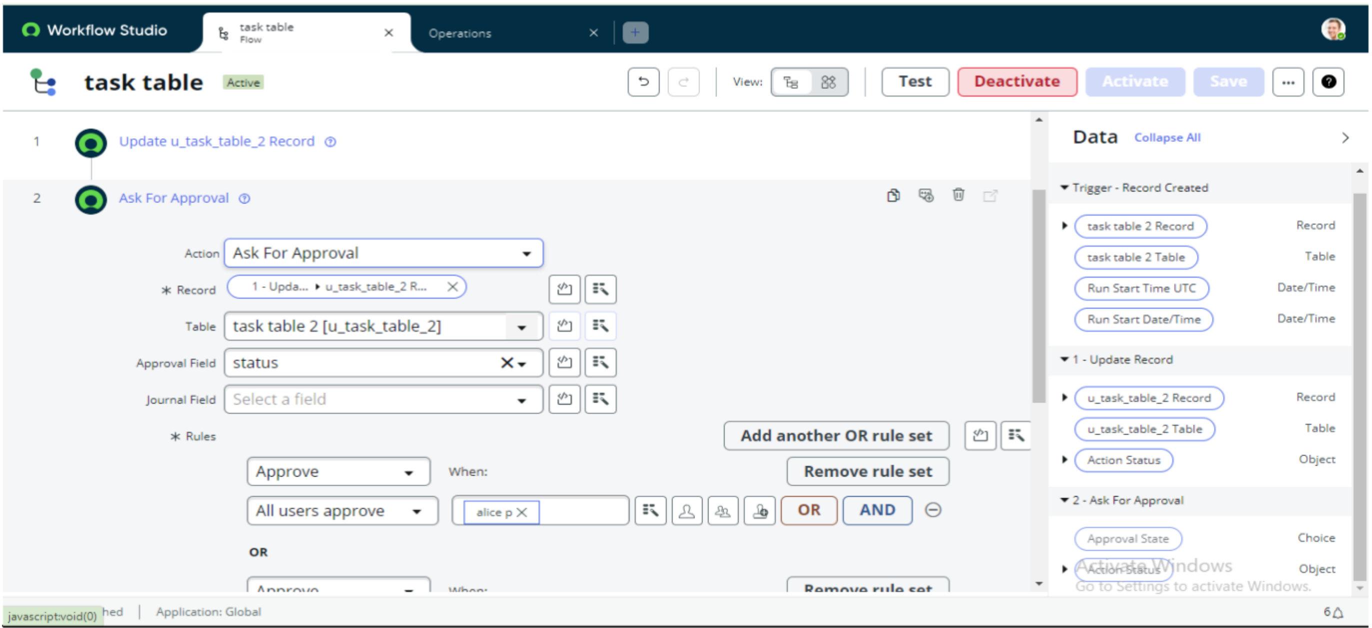
Next step:

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.



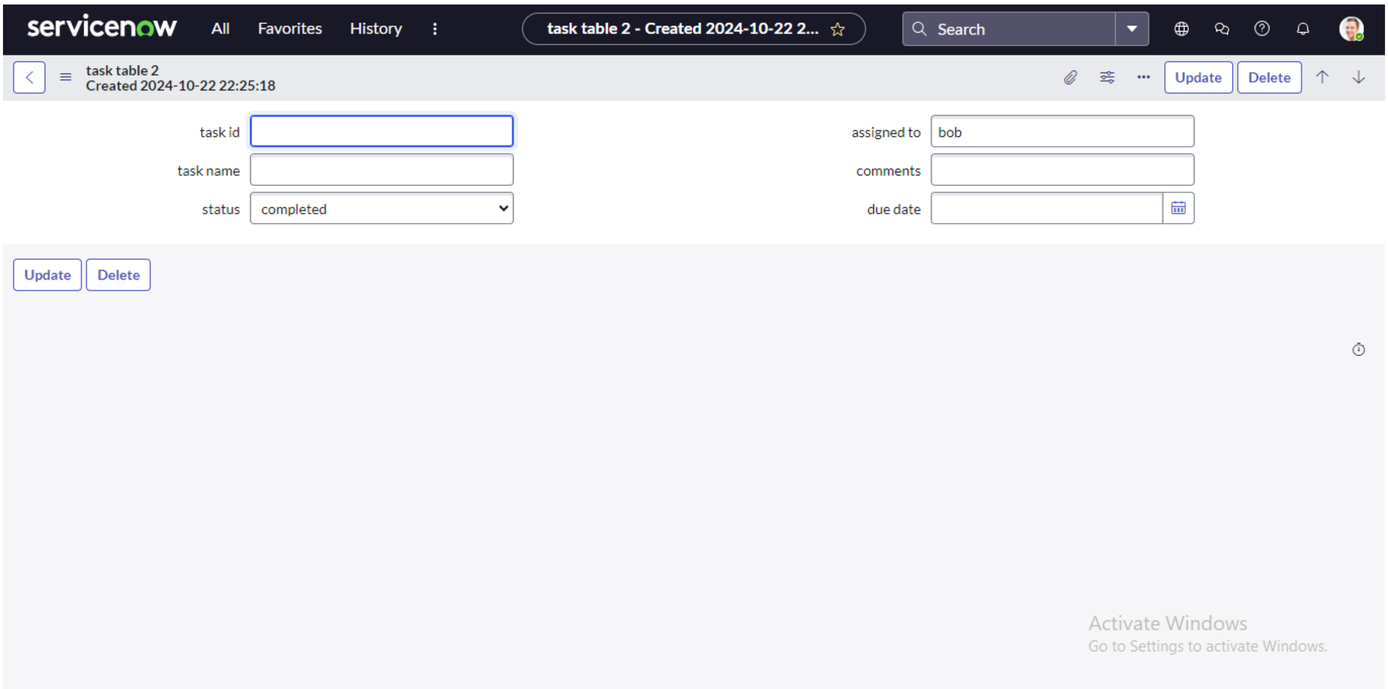
Next step:

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.

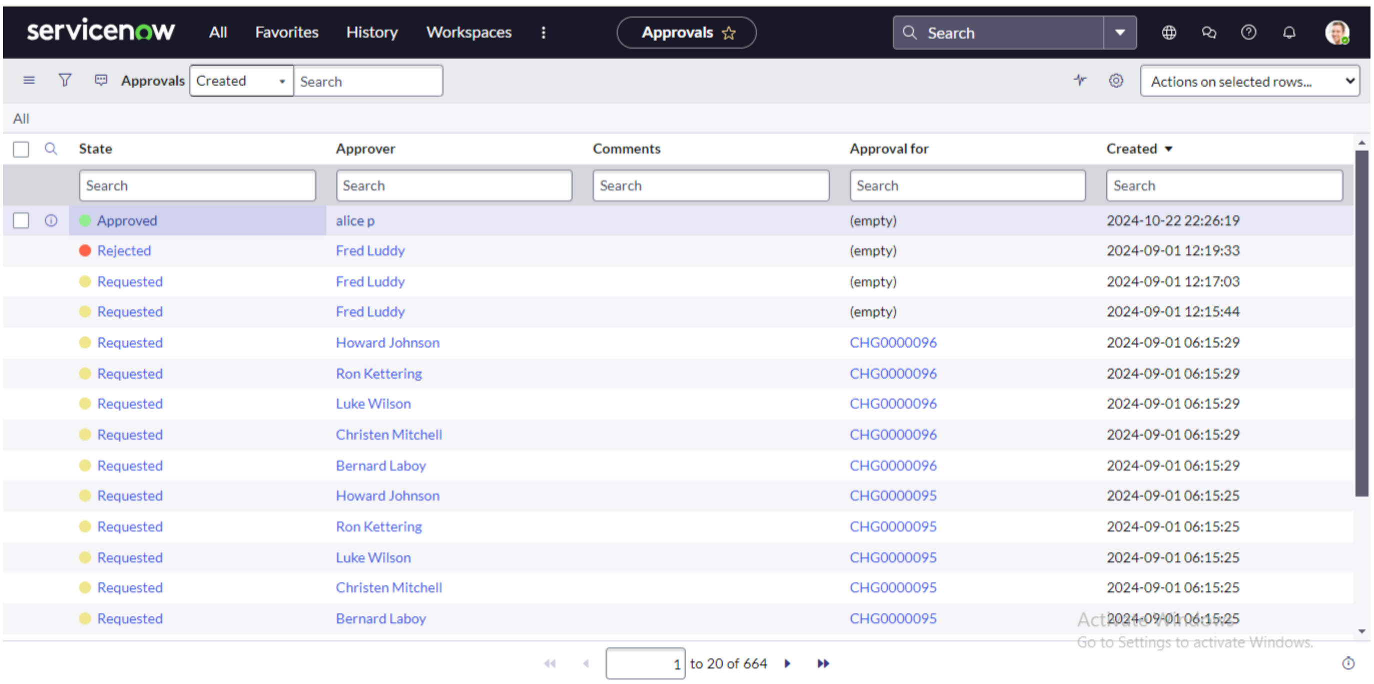
10.It status field is updated to completed



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 scenario highlights a structured approach to project management, showcasing the roles of Alice and Bob within a defined workflow. With Alice's oversight and Bob's execution, the team effectively collaborates to ensure project success. The use of tables organizes key information, facilitating easy tracking of projects, tasks, and progress updates. Overall, this system promotes accountability, enhances communication, and leads to the successful completion of projects.