Naan Mudhalvan
Salesforce Developer(Course)
Assignment Number 1

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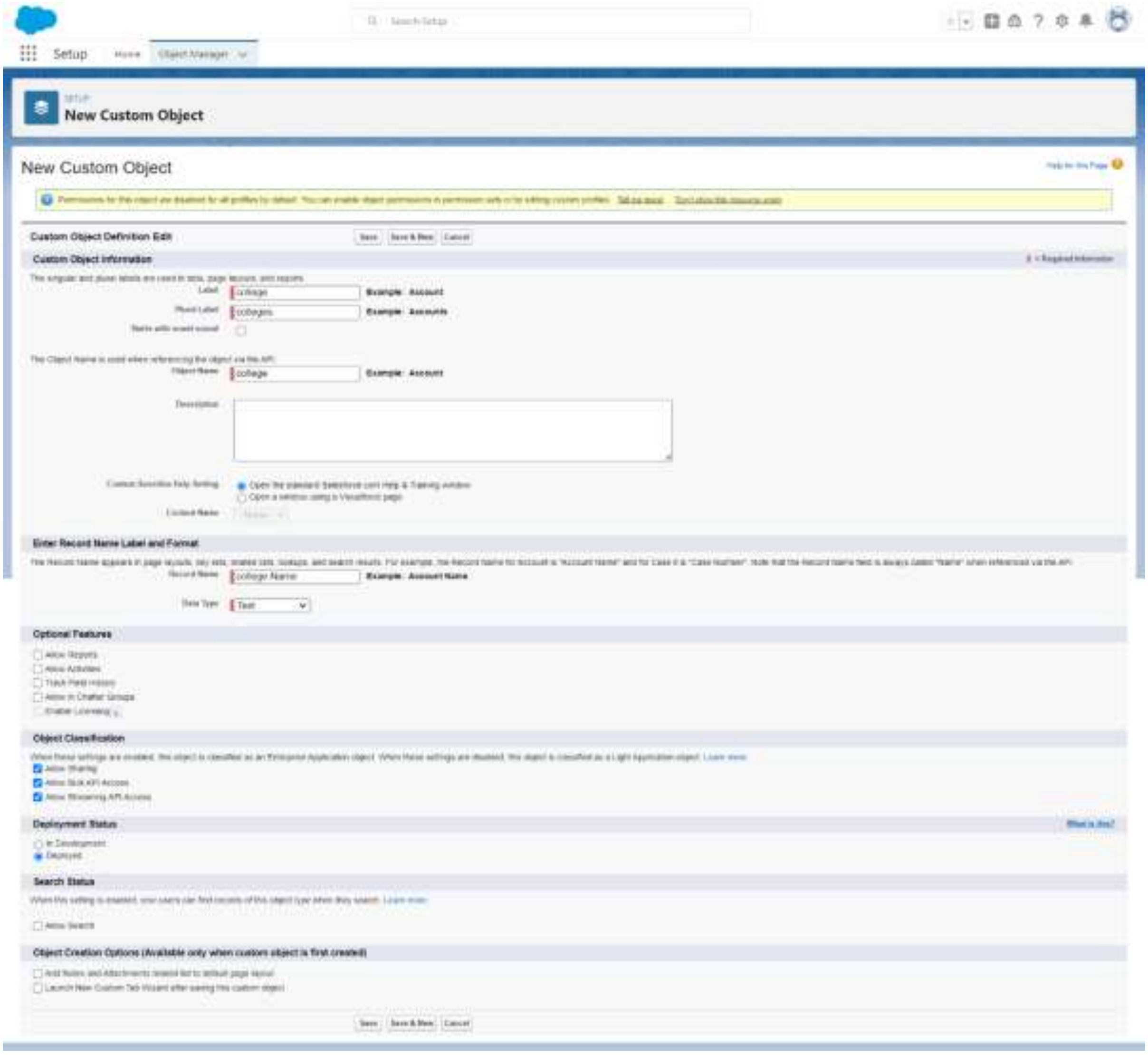
Year & Dep : 4th year & CSE
Batch : 2024
Zone no : Zone 8

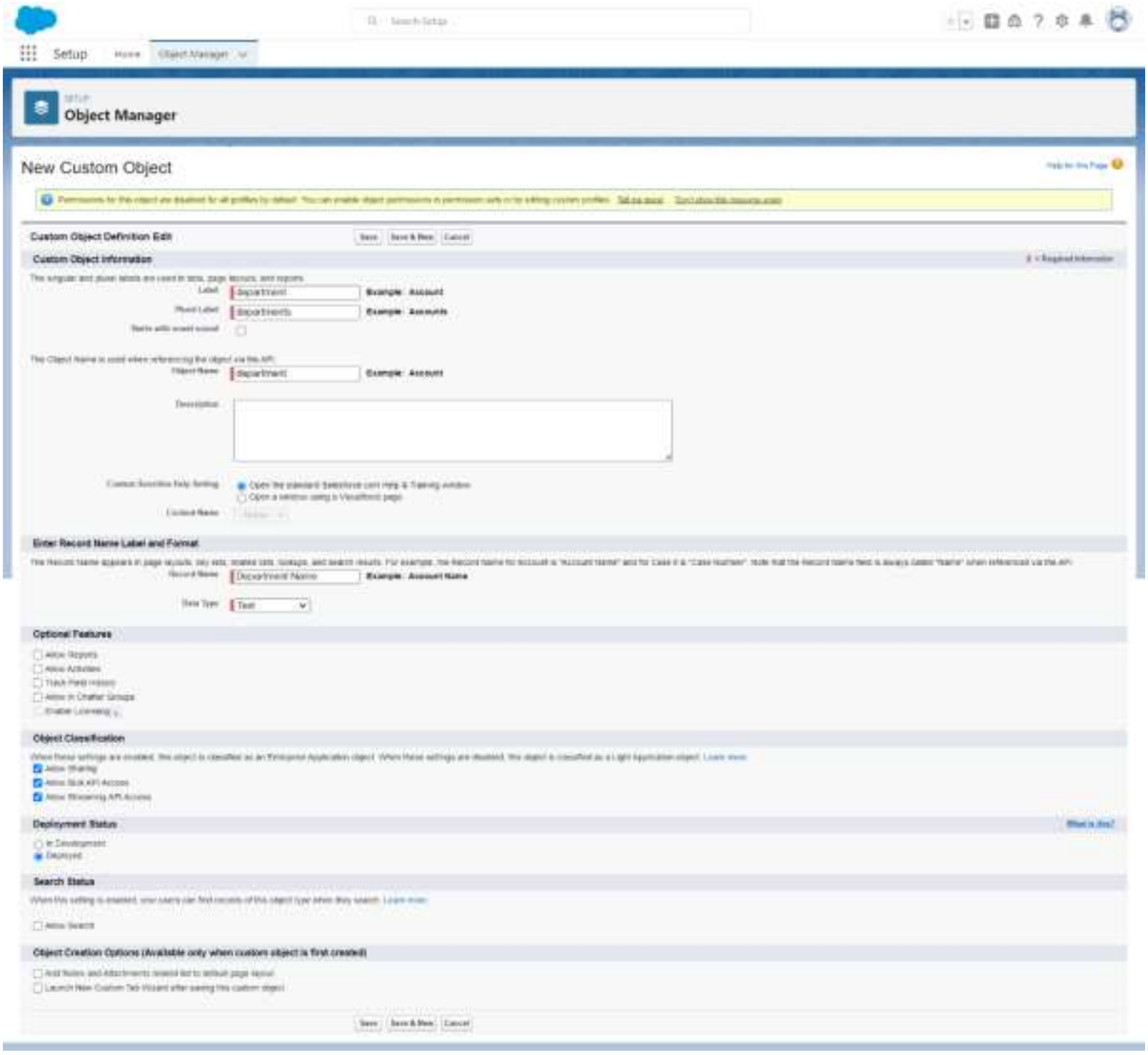
1.Create a Master-Detail Relationship between two Custom objects and also create a Roll Up Summary Field to Calculate total number of records.

Solution:
Step 1: Create Custom Objects

Assuming you have two custom objects, let's call them "College_C" and "C Department_C". If you haven't already created these objects, you can do so by going to Setup > Object Manager > Create > Custom Object.



Second custom objects, let's call them "Department_C"



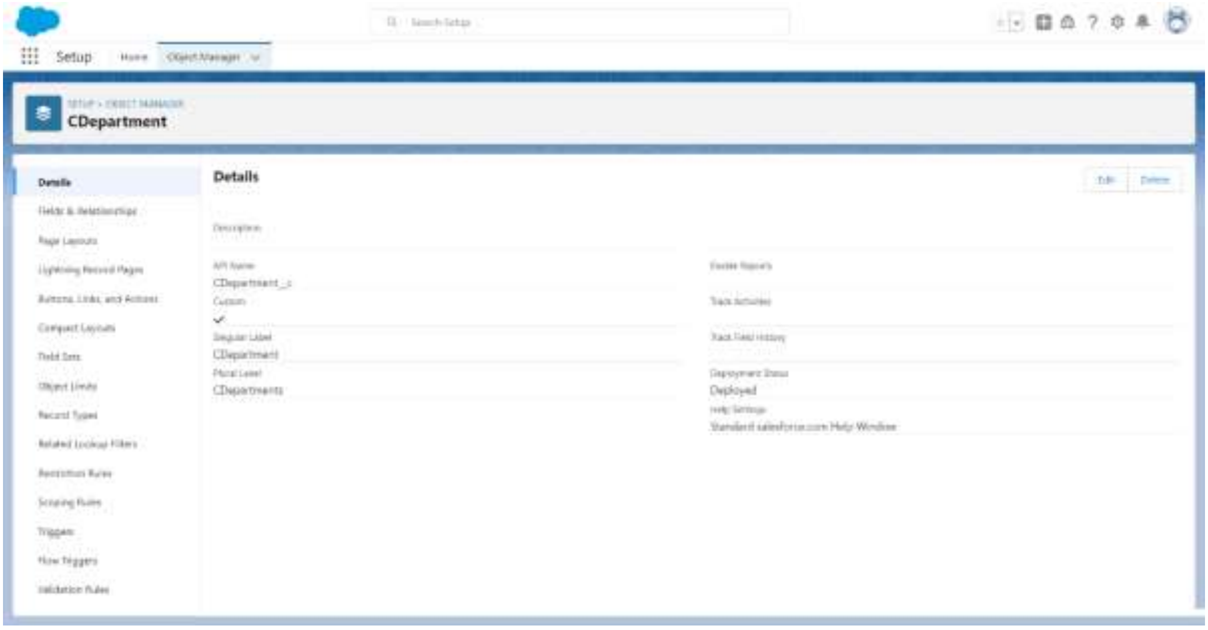
Step 2: Create a Master-Detail Relationship

To create a Master-Detail relationship between these two custom objects, follow these steps:

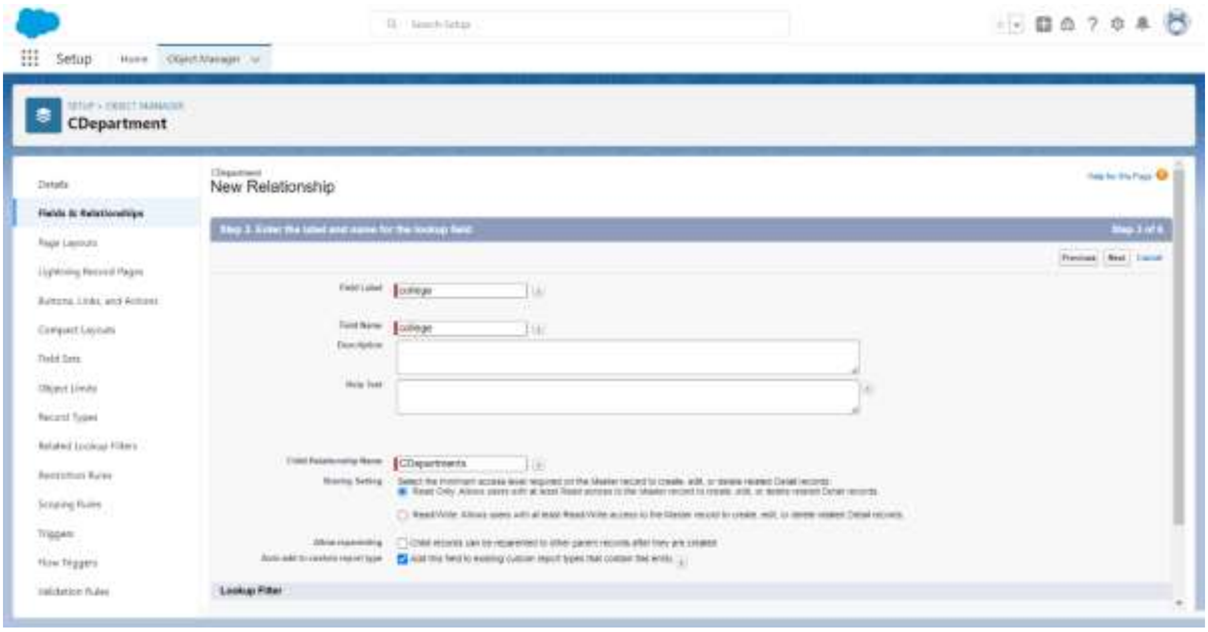
1. Go to Setup > Object Manager.
2. Click on "College__c" to open its settings.
3. In the left sidebar, click on "Fields & Relationships."

4. Click the "New" button to create a new custom field.
5. Choose "Master-Detail Relationship" as the data type.
6. Enter a label for the relationship, e.g., "Department __c."
7. Choose " Department__c" as the related object.
8. Configure other settings as needed and click "Next."
9. Specify the field-level security and add it to relevant page layouts.

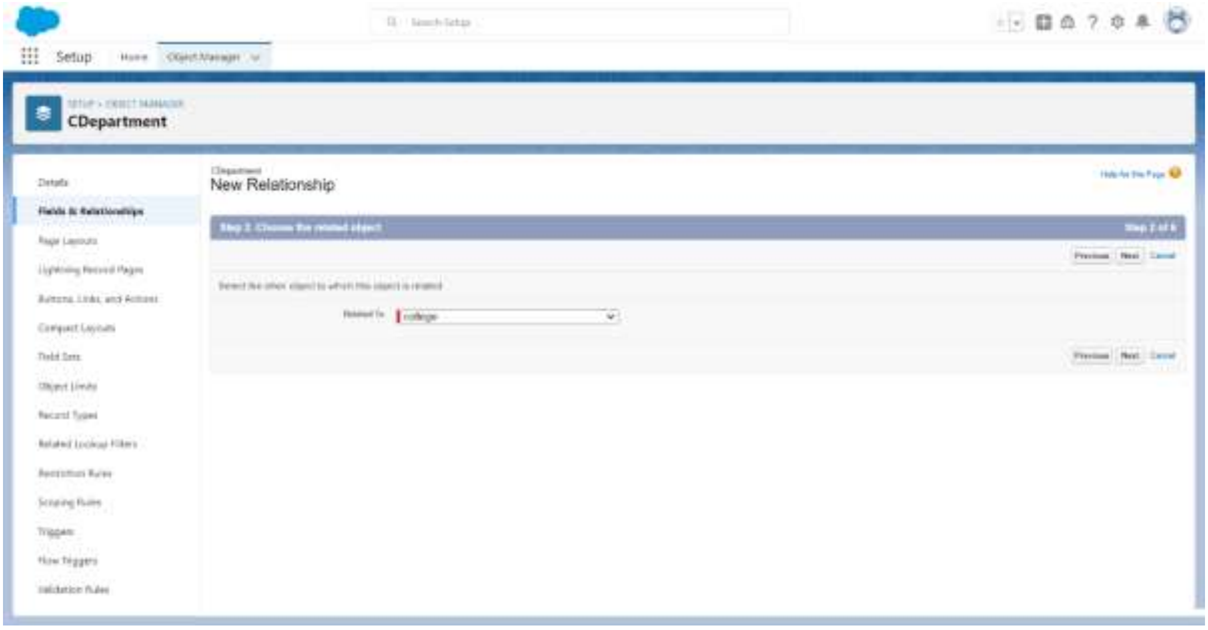
10. Click "Next" and "Save" to create the relationship.

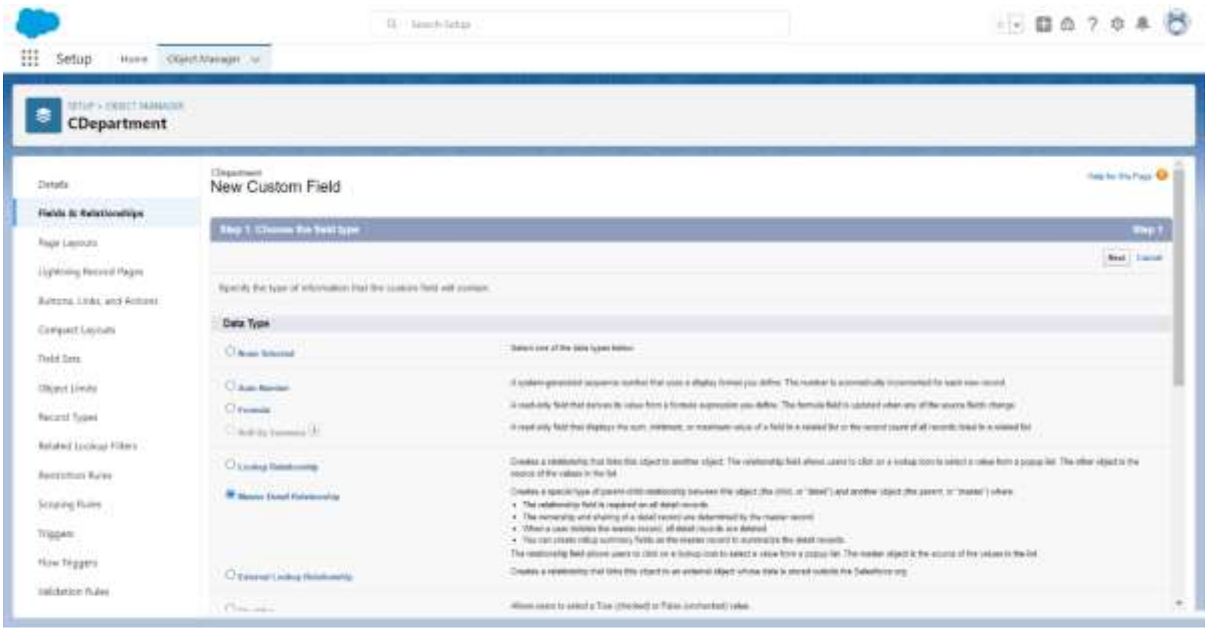


Setup
CDepartment
Details
CDepartment__c
CDepartment
CDepartments
Deployed



Setup
CDepartment
Fields & Relationships
New Relationship
college
college
CDepartments
Lookup Filter





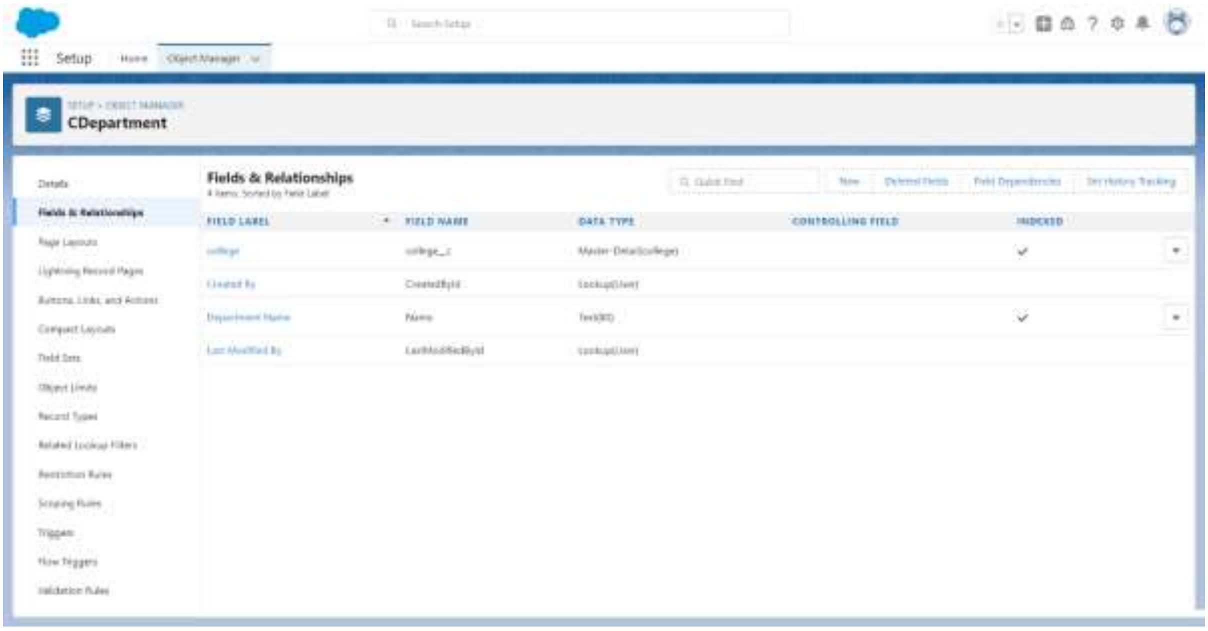
Step 3: Create the Roll-Up Summary Field

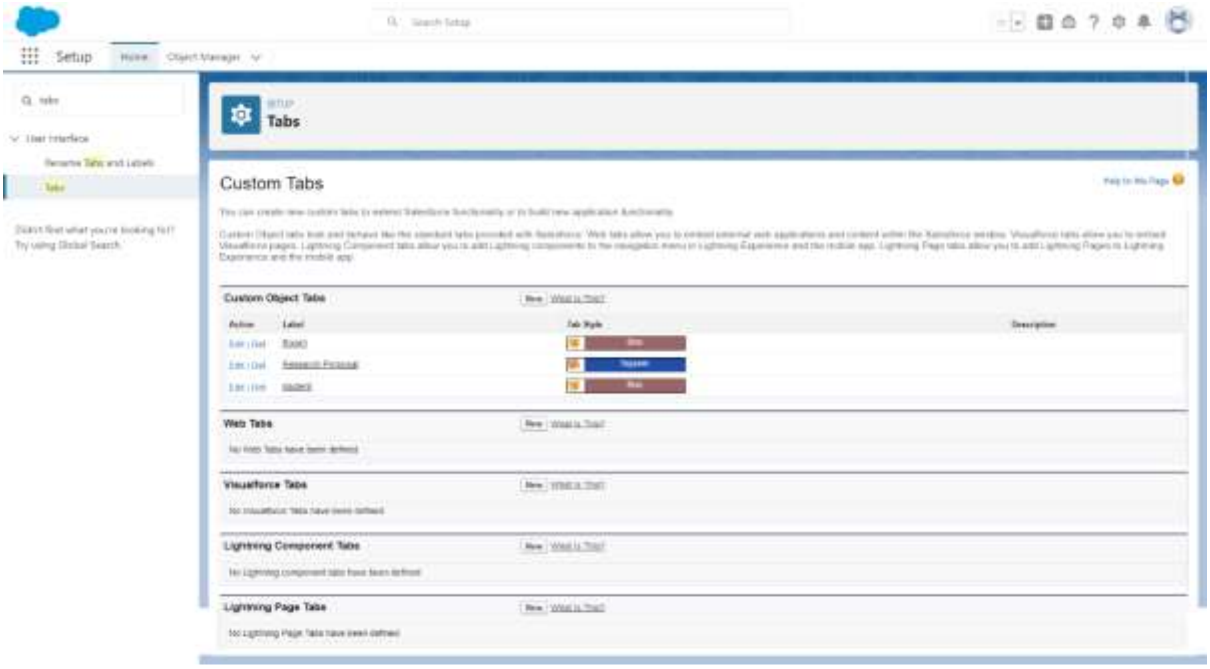
Now, let's create a Roll-Up Summary Field on the "College_C" to calculate the total number of related records in "Department__C":

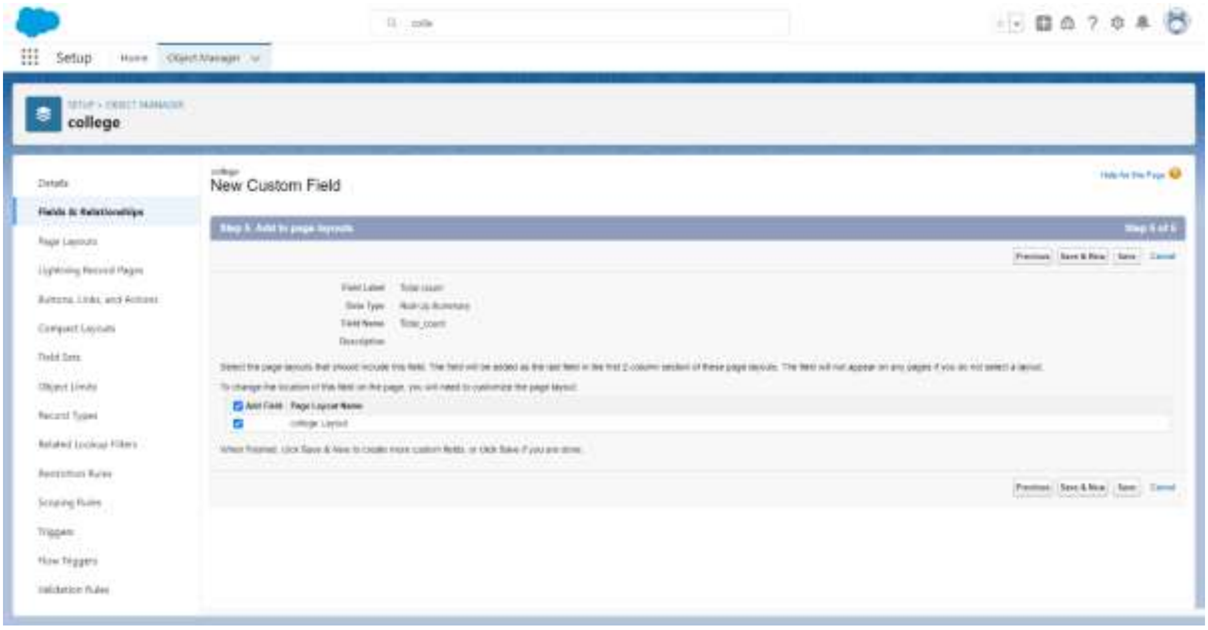
1. Still on the "College__c" settings, go to "Fields & Relationships."

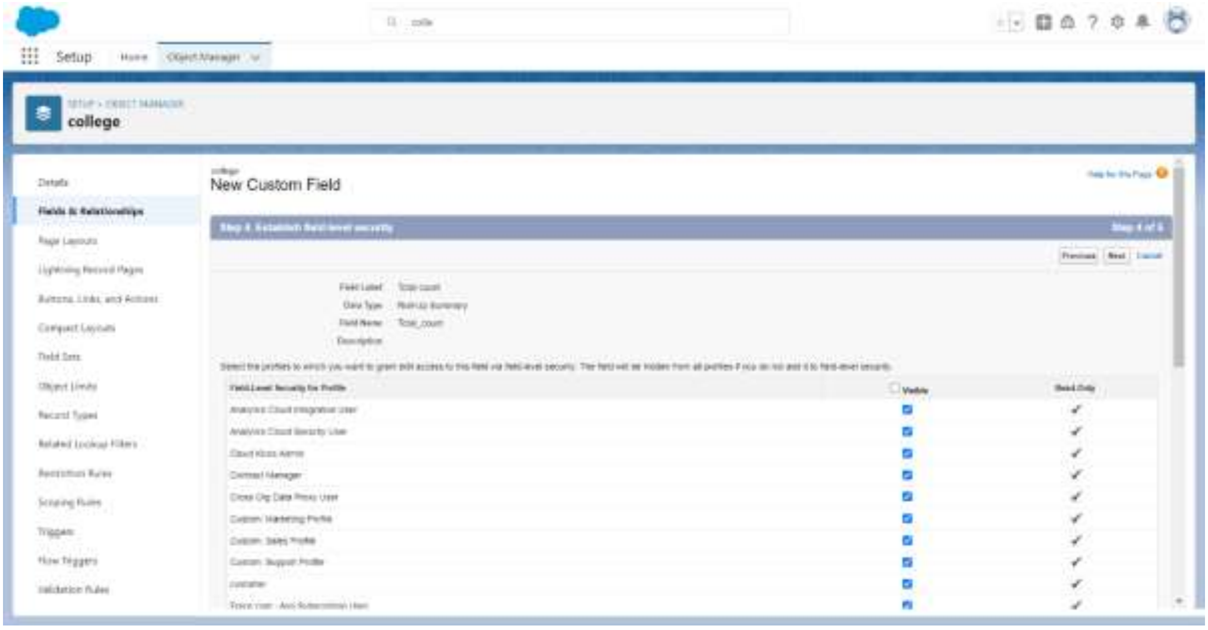
2. Click the "New" button to create a new custom field.
3. Choose "Roll-Up Summary" as the data type.
4. Enter a label for the field, e.g.,
5. Choose "Count" as the Roll-Up Type.
6. Select " Department__c" as the object to roll up information from.
7. Specify the filter criteria if you want to filter the related records.
8. Configure other settings as needed and click "Next."
9. Specify the field-level security and add it to relevant page layouts.

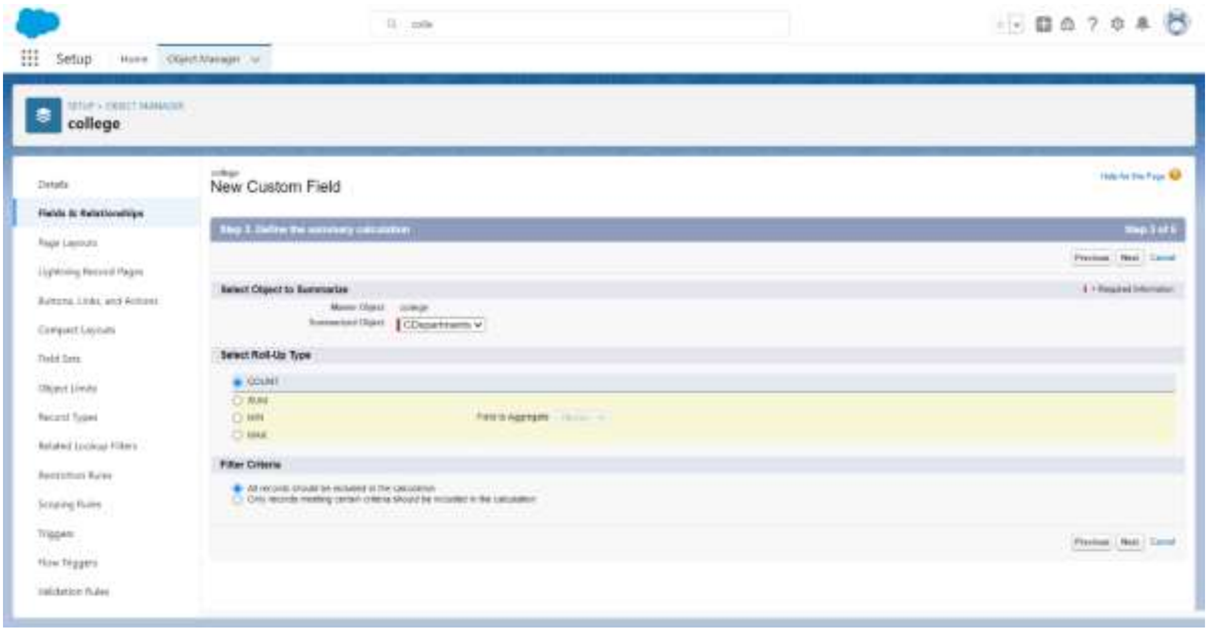
10. Click "Next" and "Save" to create the Roll-Up Summary Field.

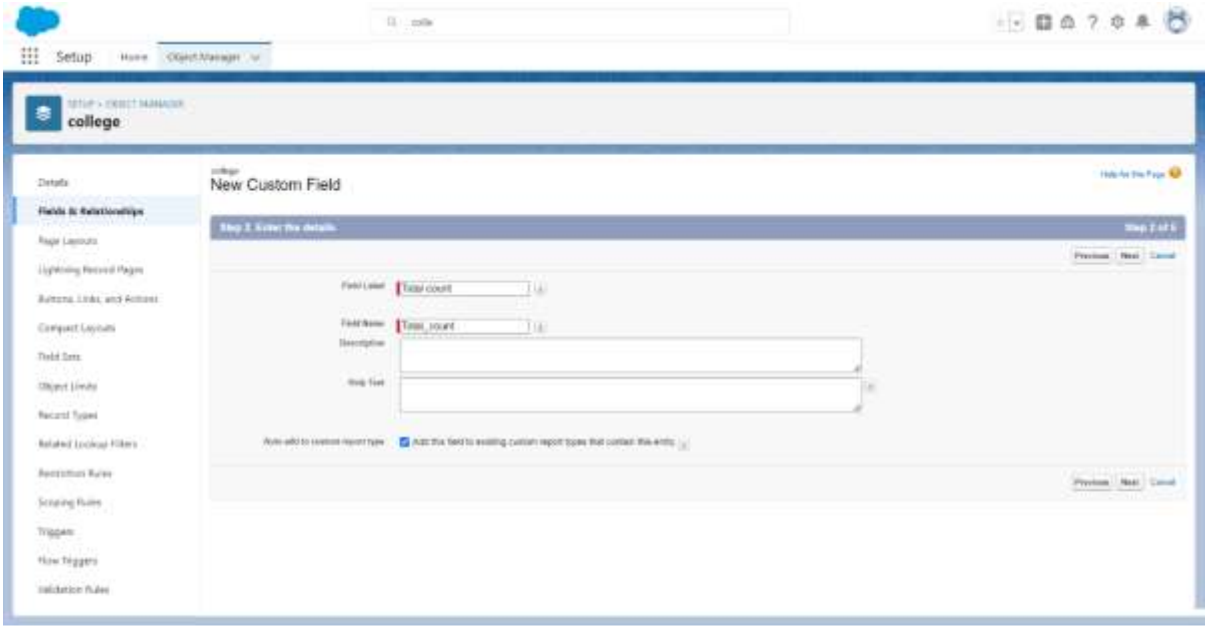


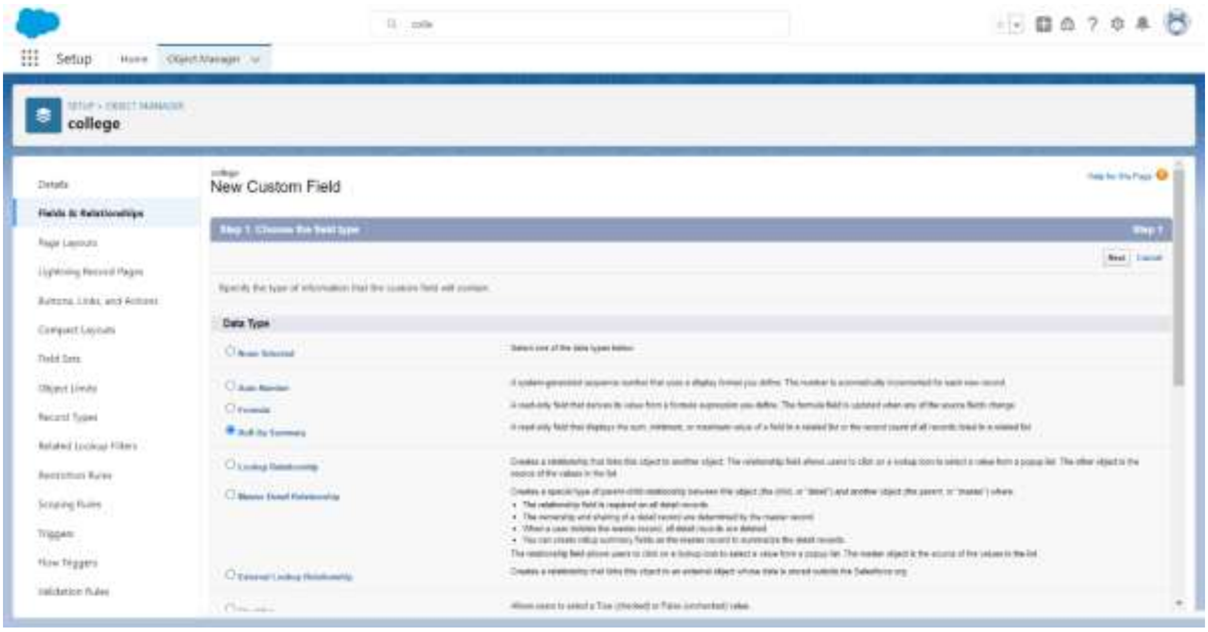

Setup
Tabs
Custom Tabs
Custom Object Tabs
Web Tabs
Visualforce Tabs
Lightning Component Tabs
Lightning Page Tabs

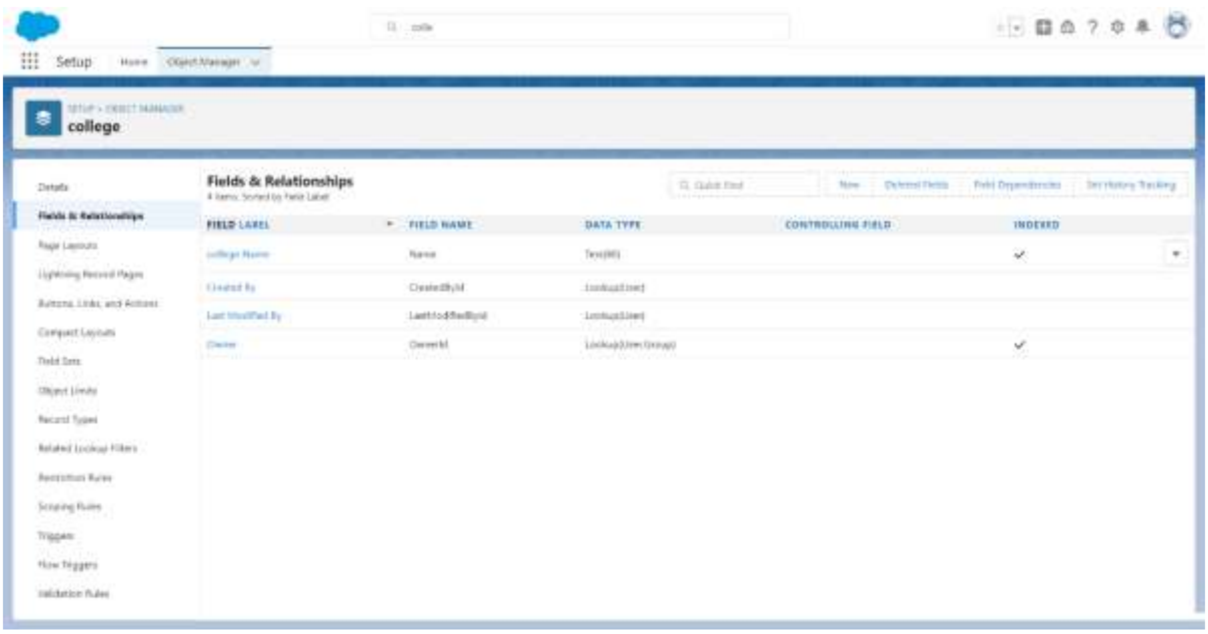

Setup
college
New Custom Field
Details
Fields & Relationships
Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
Compact Layouts
Field Sets
Object Limits
Record Types
Related Lookup Filters
Restriction Rules
Scoping Rules
Triggers
Flow Triggers
Validation Rules






Setup
college
Details
Fields & Relationships
Page Layouts
New Custom Field
Field Label
Total count
Field Name
Total_count
Description
Help Text
Triggers
Validation Rules


Setup
college
Details
Fields & Relationships
Page Layouts
New Custom Field
Data Type
Triggers
Validation Rules

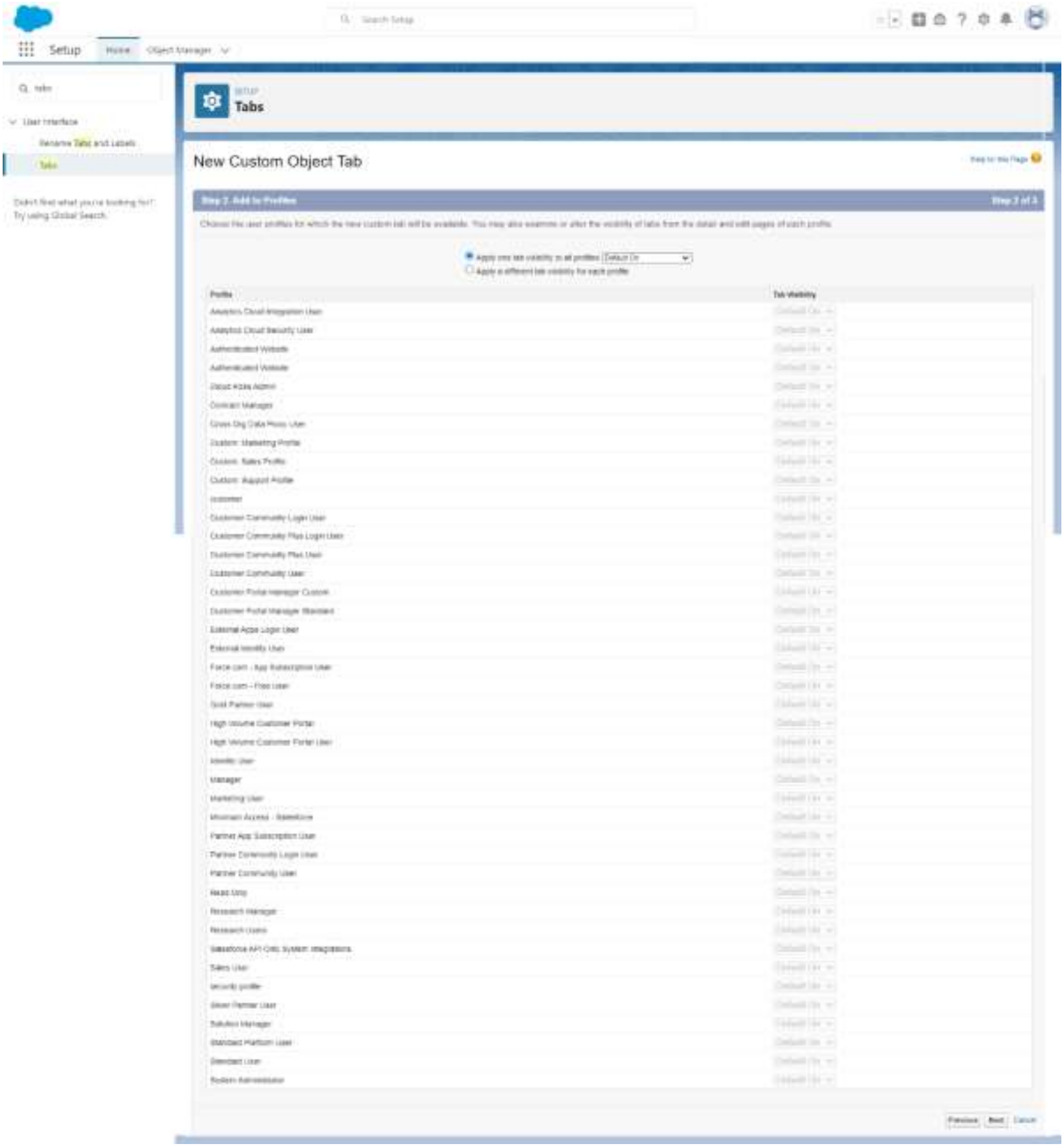


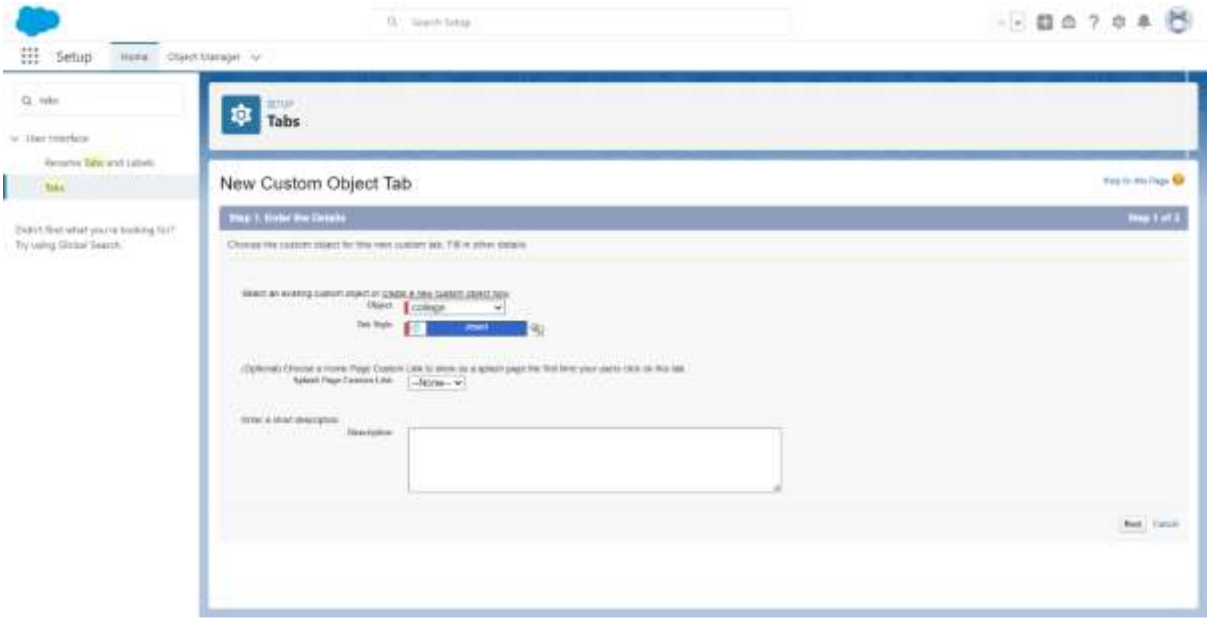
Step 4: Create a Lightning App

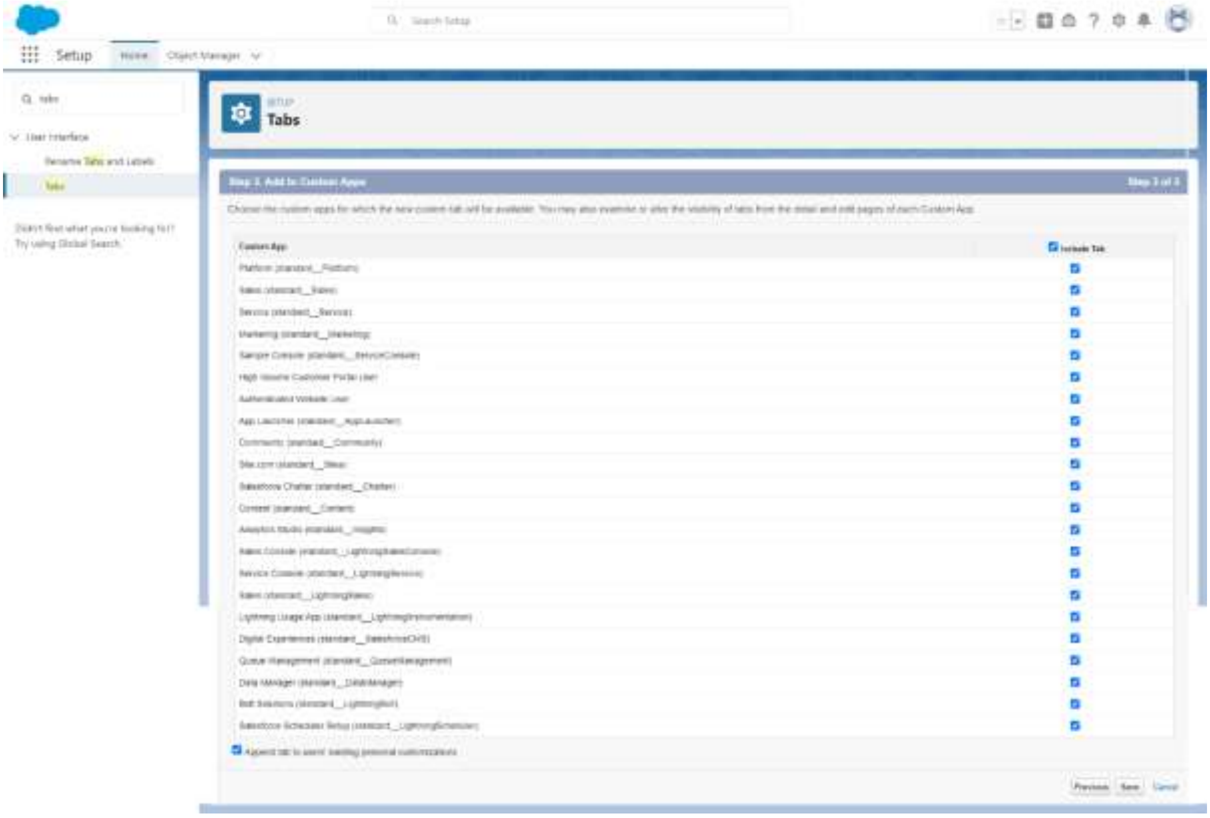
1. Type and select "App Manager."
2. Click "New Lightning App."
3. Fill in basic information (Name, Developer Name, Description).
4. Choose the App Type (Standard, Console, Custom).
5. Customize the Logo and Colour Scheme.
6. Configure Navigation Items (objects to appear in the app's menu).
7. Set the App Visibility (default access).
8. Optionally, choose Record Pages (Lightning Record Pages).
9. Review and Save the app.

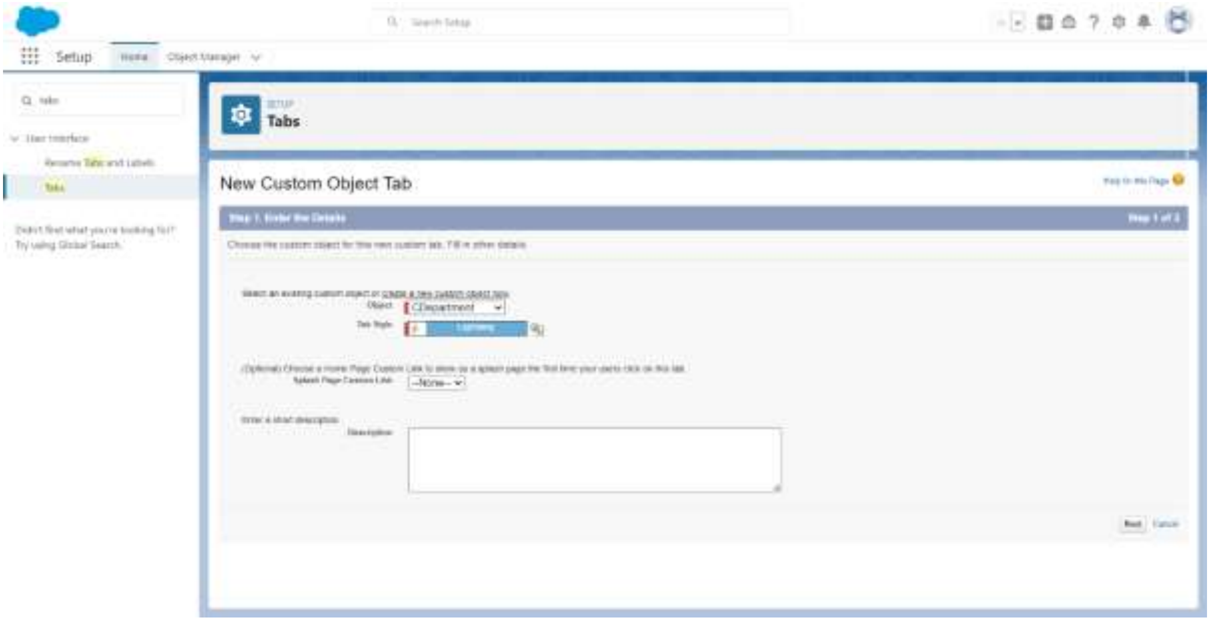
10.Assign the app to users or profiles.

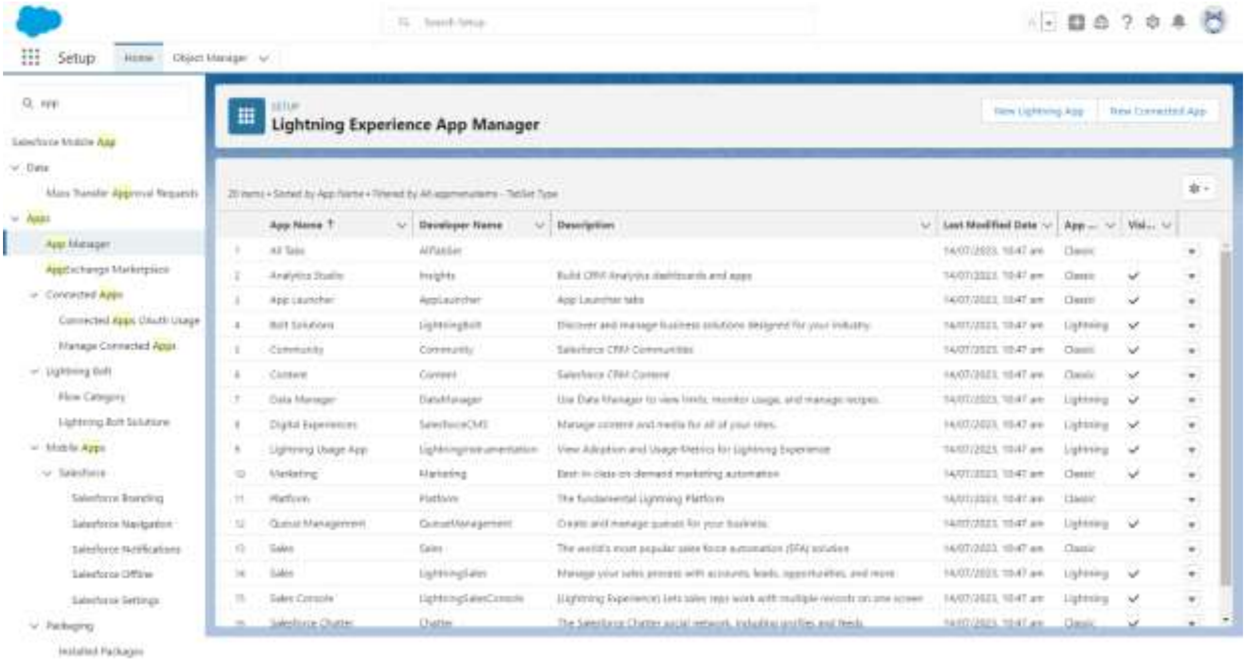
11.Test the app with the assigned users.

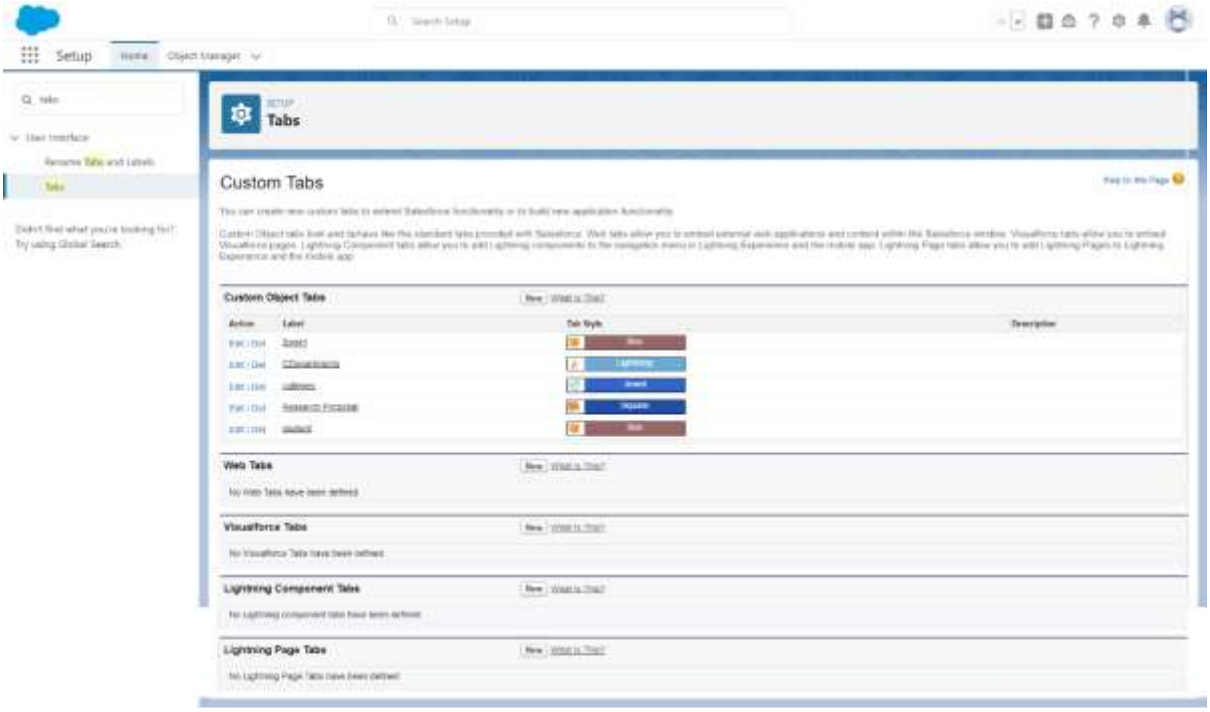


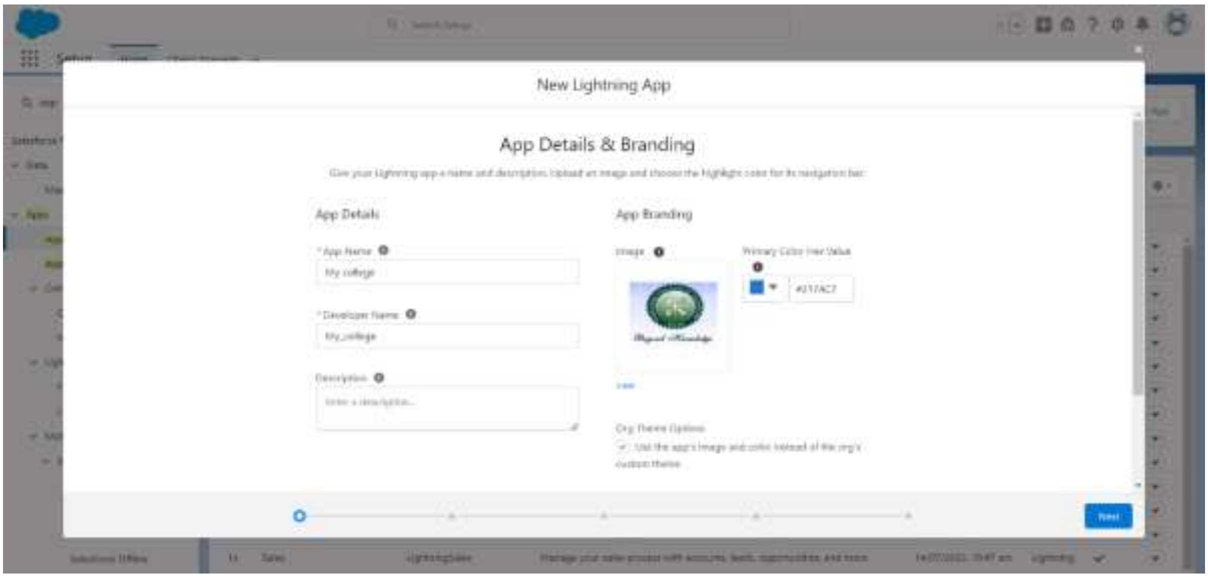

Setup
Object Manager
Tabs
New Custom Object Tab


Setup
Object Manager
Tabs


Setup
Tabs
New Custom Object Tab


Setup
Lightning Experience App Manager

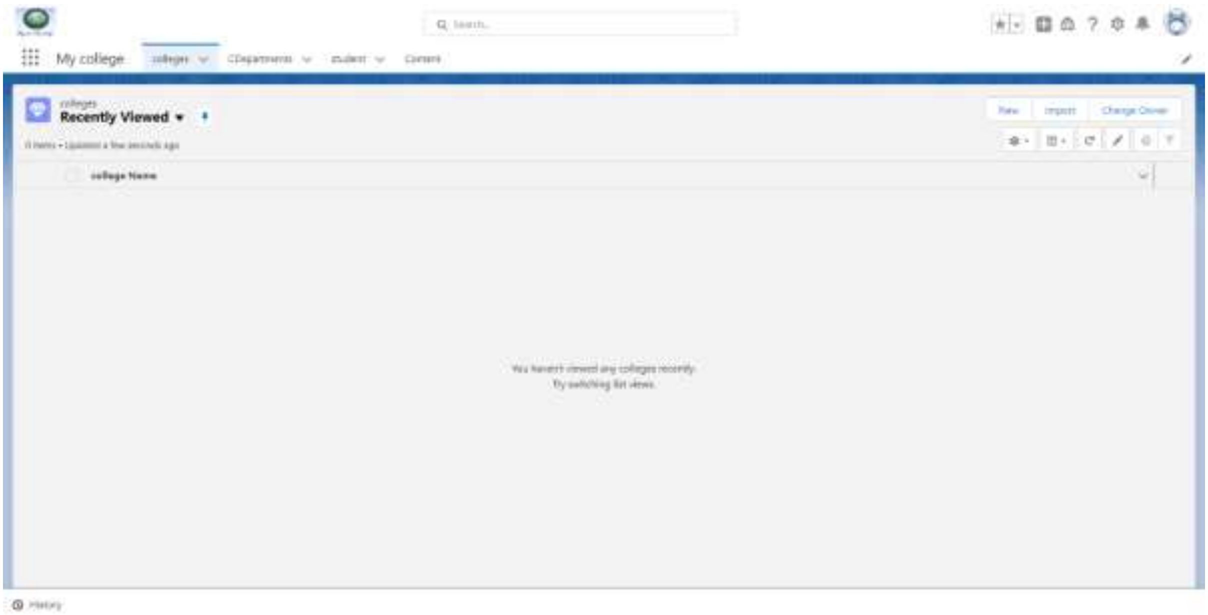

Setup
Tabs
Custom Tabs
Custom Object Tabs
Web Tabs
Visualforce Tabs
Lightning Component Tabs
Lightning Page Tabs

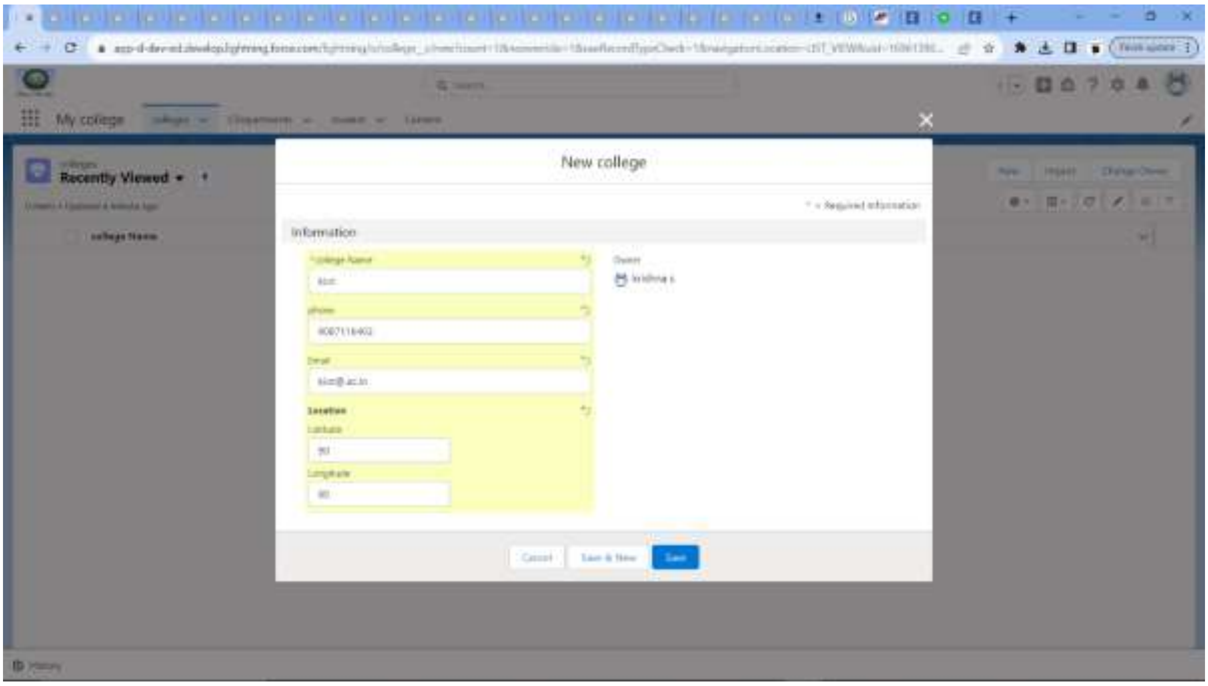

New Lightning App
App Details & Branding
App Details
App Branding
My college
My_college
Next

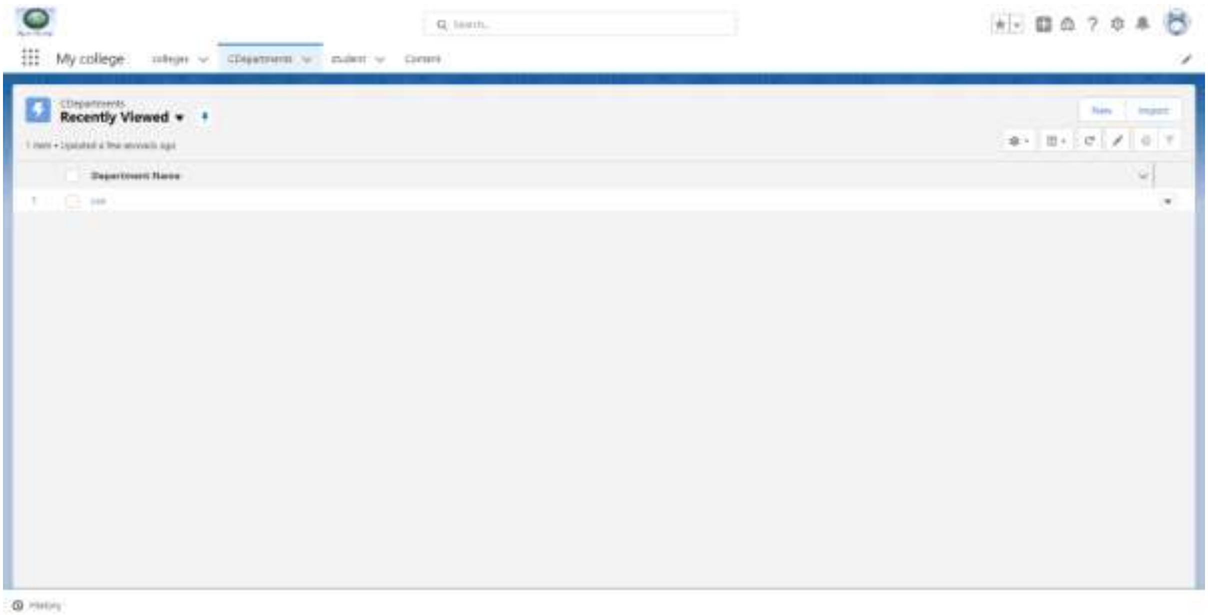
Conclusion:

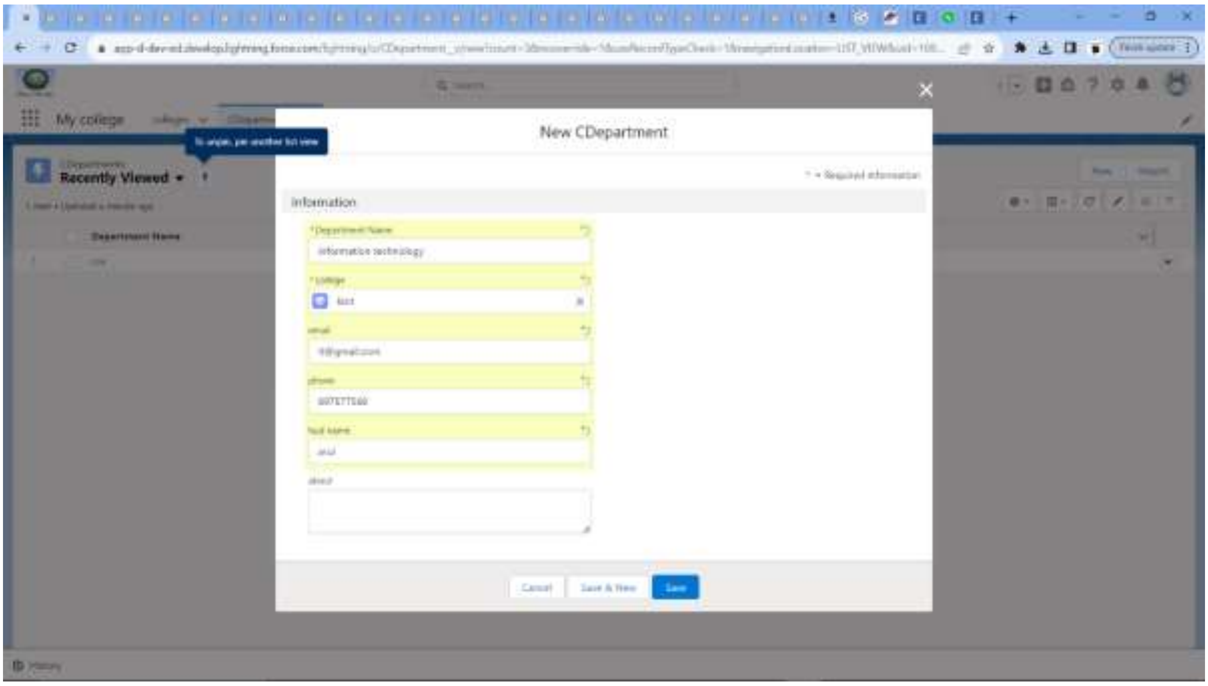
Now, whenever you create or update a record in the "Department__c" related to a "College__c," the "TotalCount__c" field on the "College__c" will automatically update to show the total number of related records.

Remember to adjust field-level security, validation rules, and page layouts as needed to ensure that your custom objects and fields are appropriately configured for your organization's requirements.

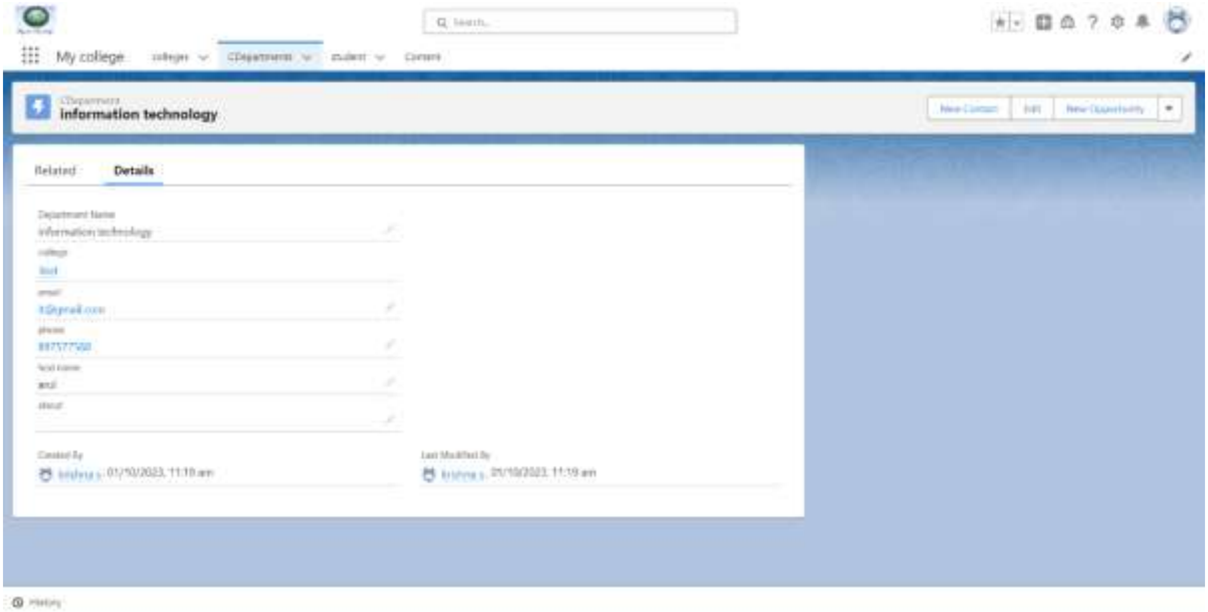


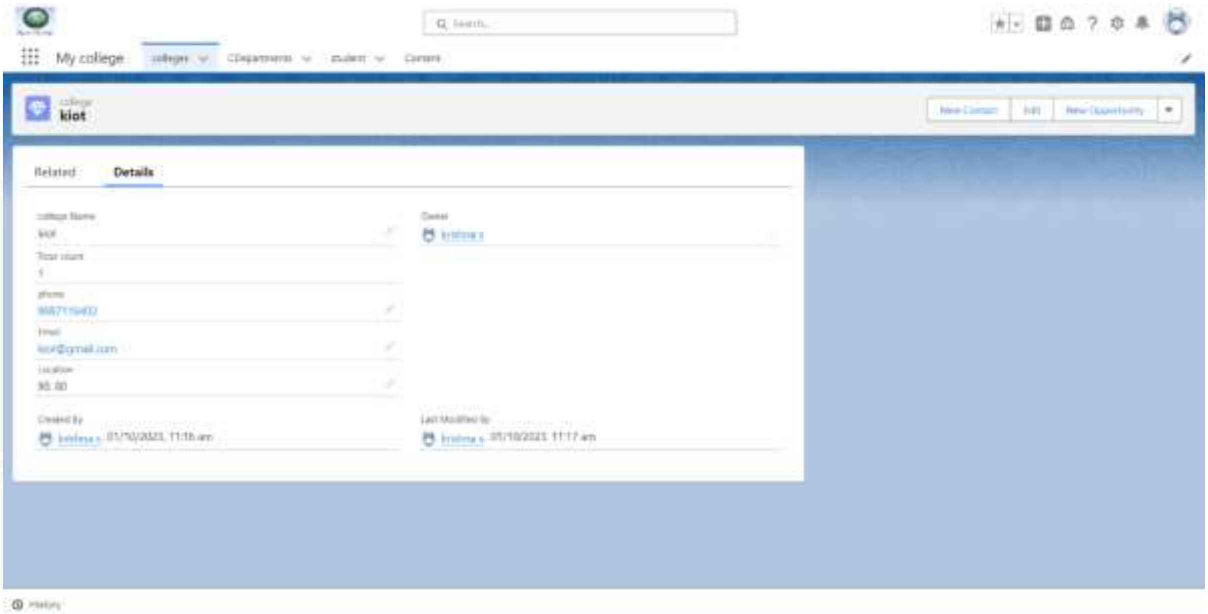


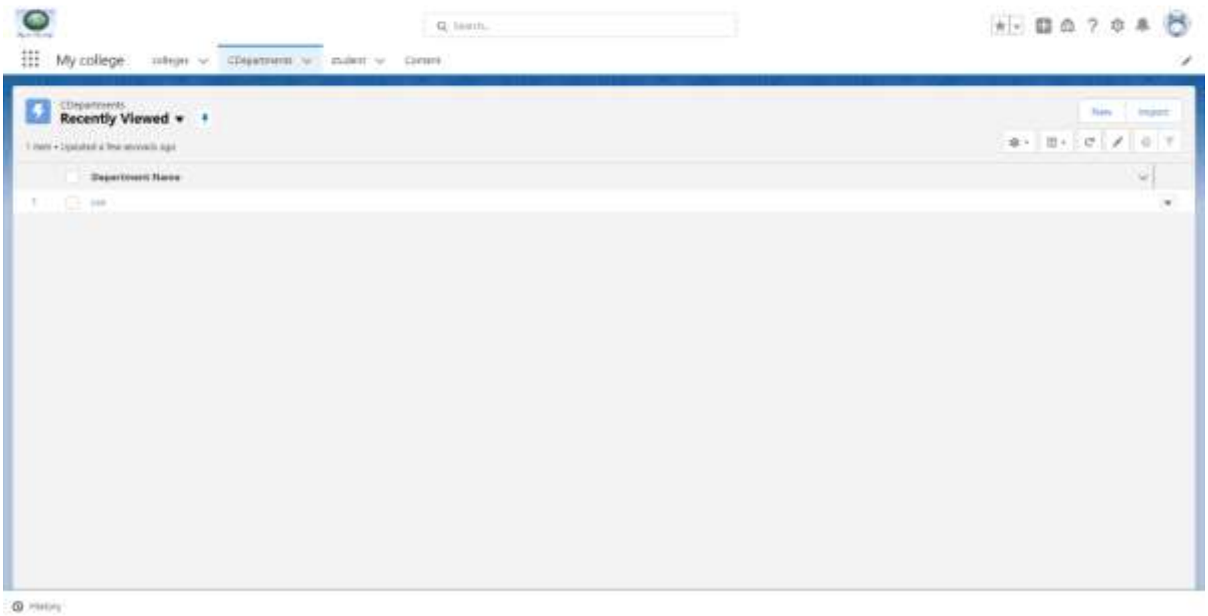


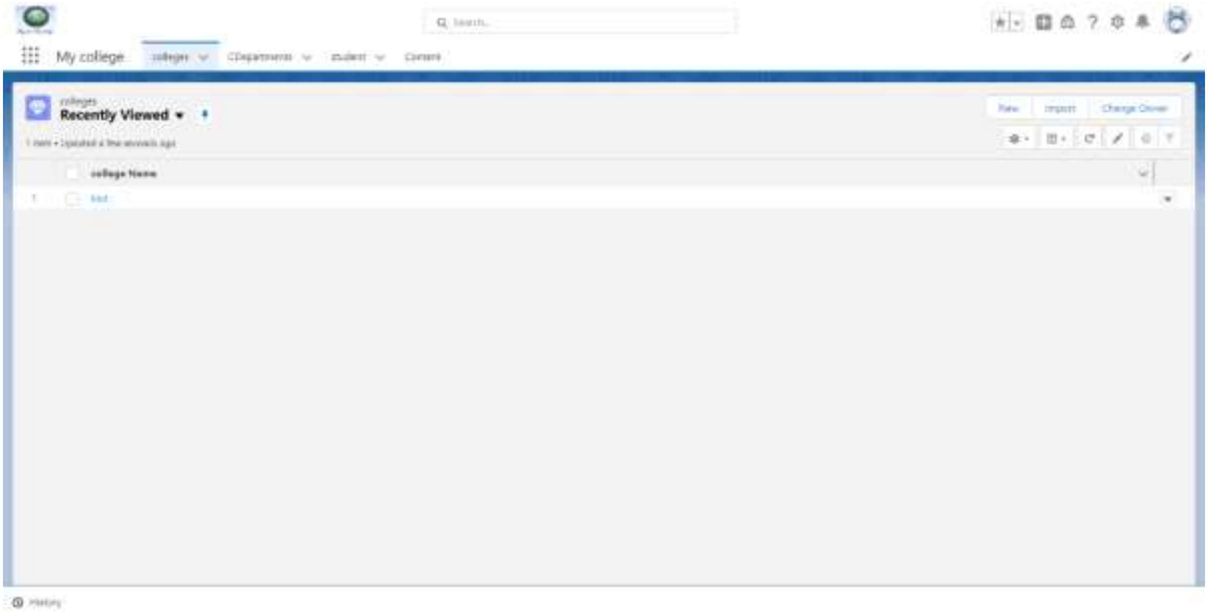


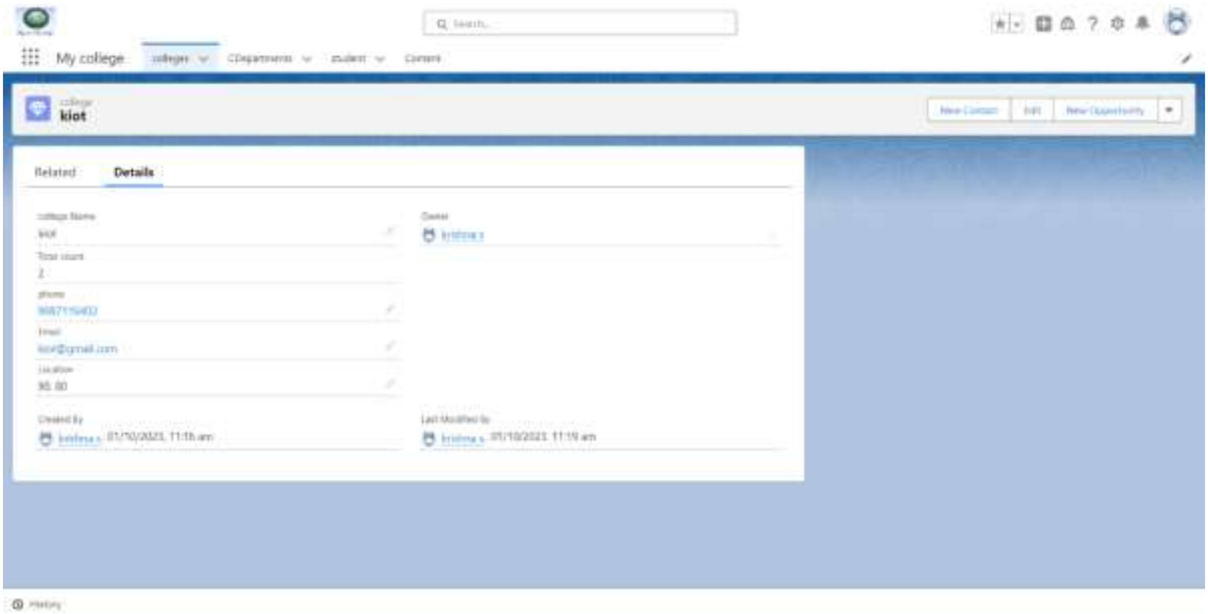
My college
Recently Viewed
New CDepartment
Information
Cancel
Save & New
Save


My college
Information technology
Related
Details
Department Name
information technology
Created By
Last Modified By


My college
kiot
Related
Details
Created By
Last Modified By


My college
Recently Viewed
Department Name

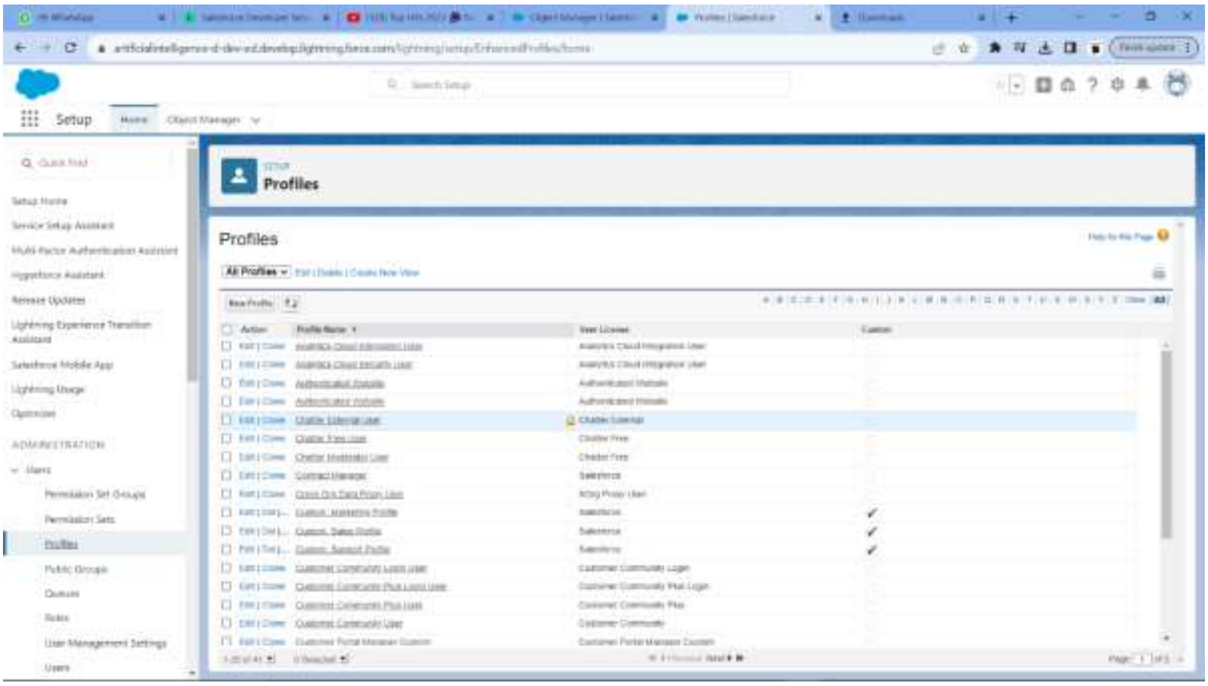

My college
Recently Viewed
college Name

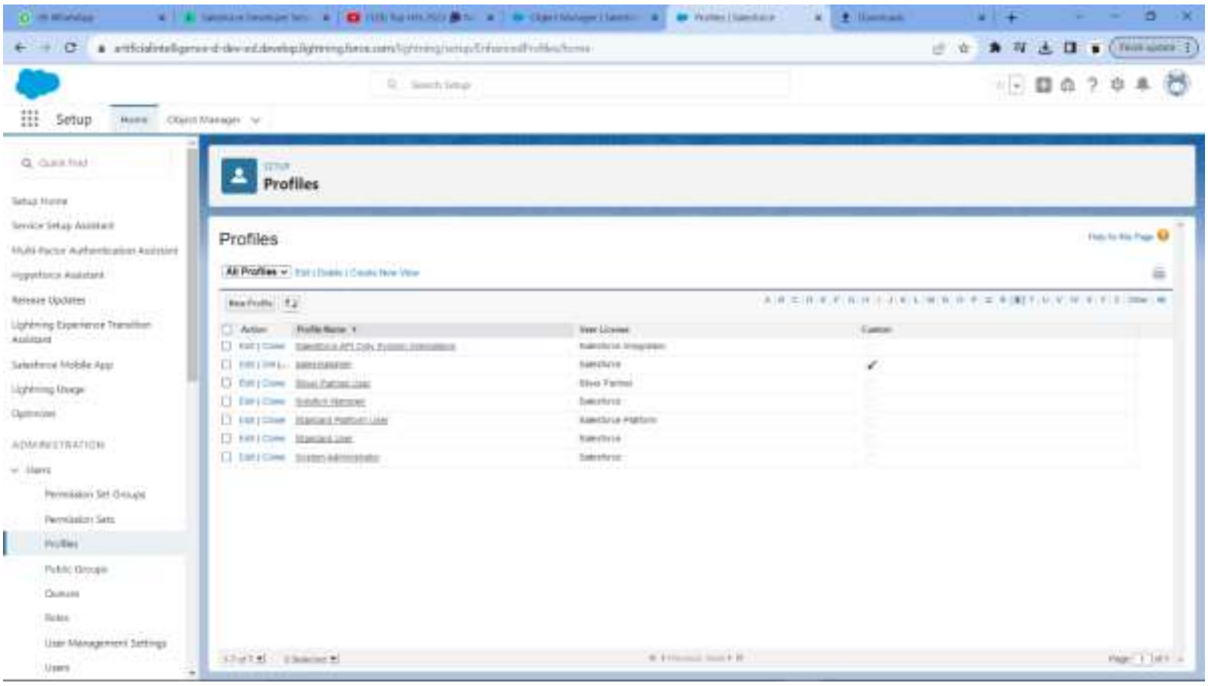

My college
kiot
Related
Details

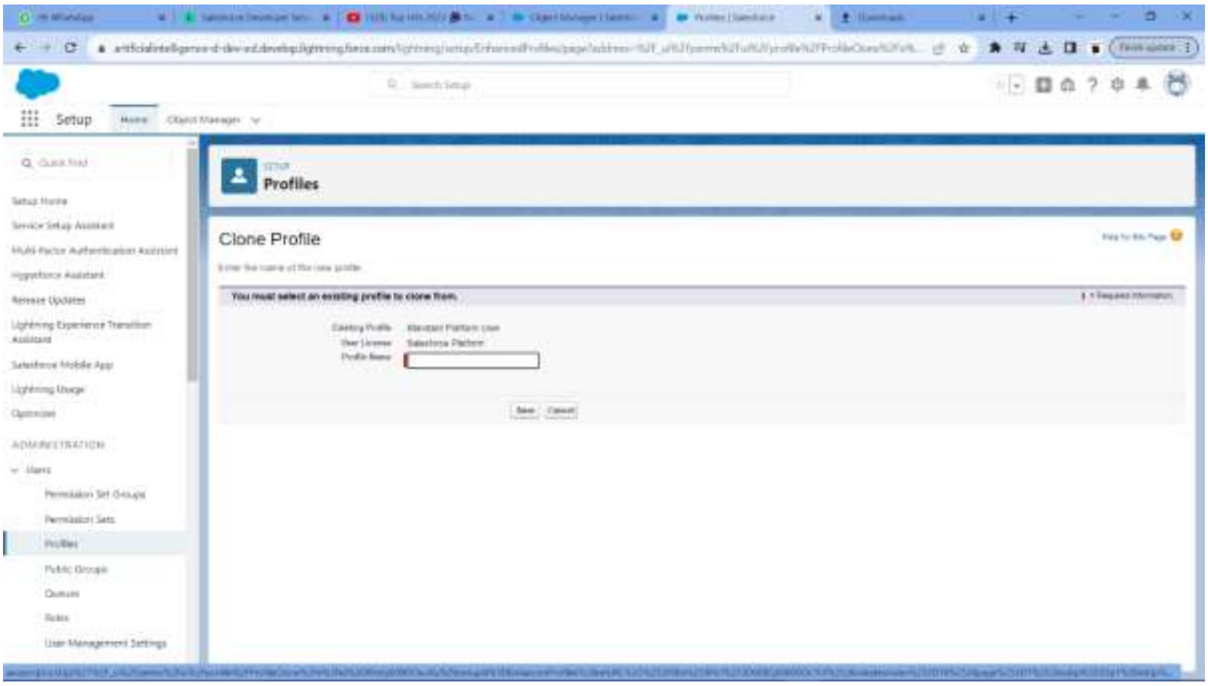
2. If there is 2 user, User A and User B in the organisation and we want in Account object that User A should not see the User B Record and user B should not see User A record then apply the Security for the users.

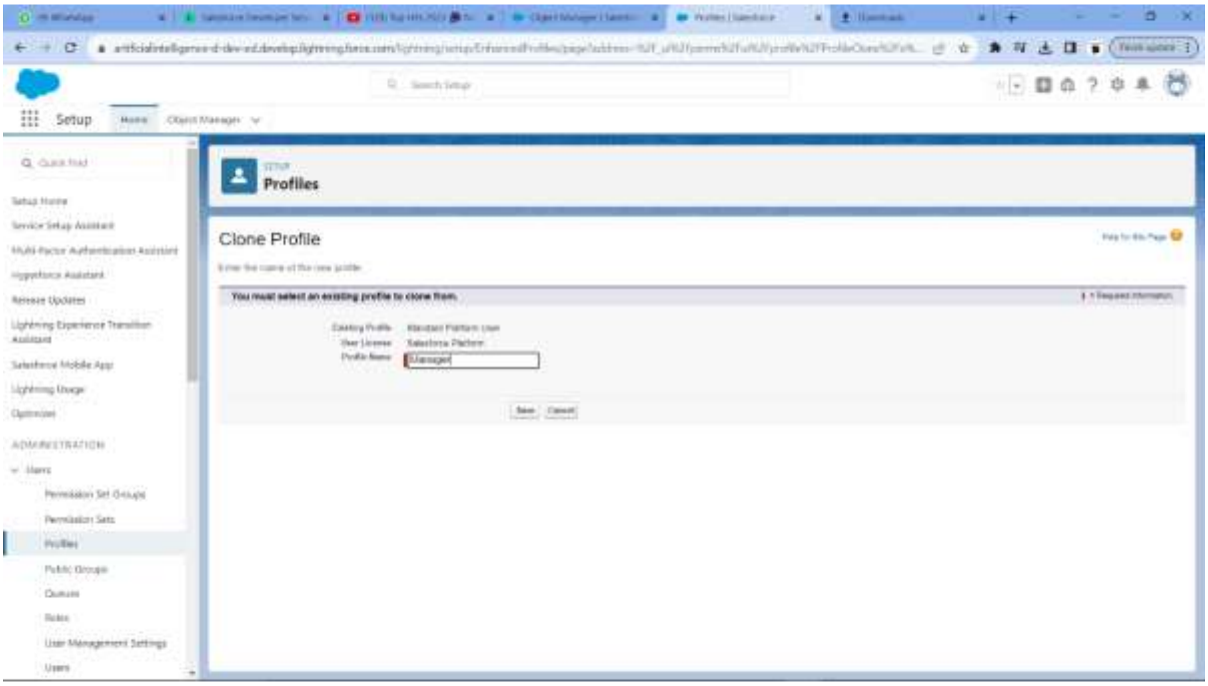
Solution:

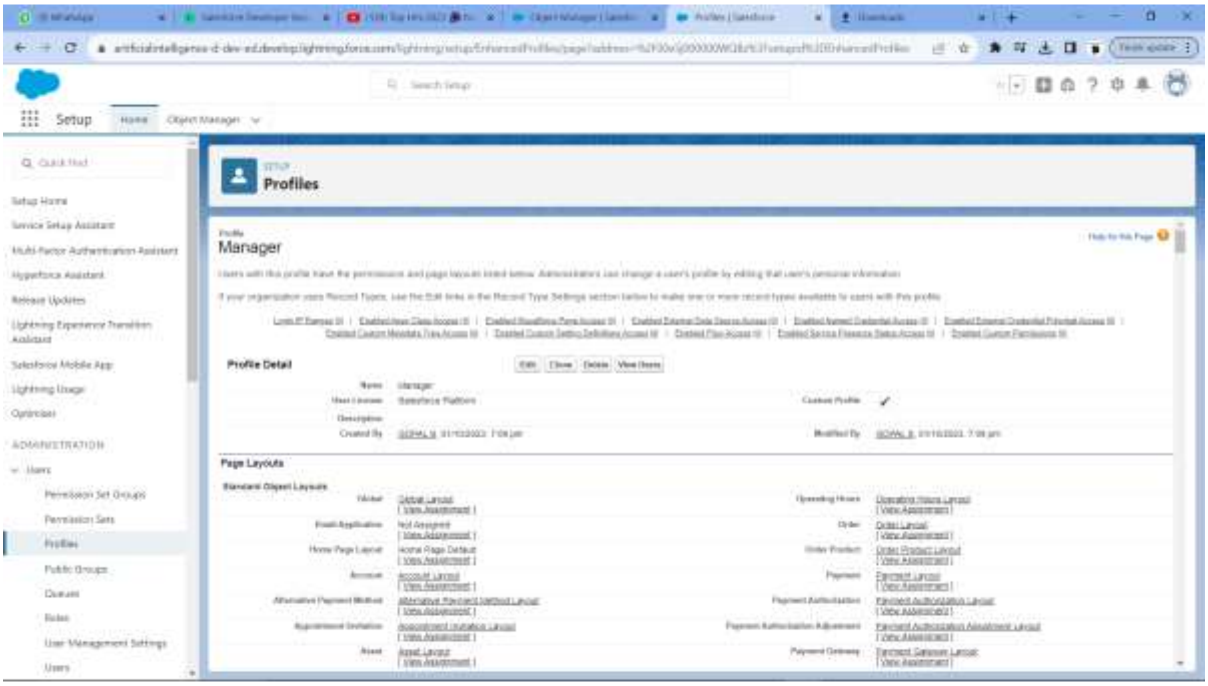
Step 1: Create two separate custom profiles, one for User A and one for User B.

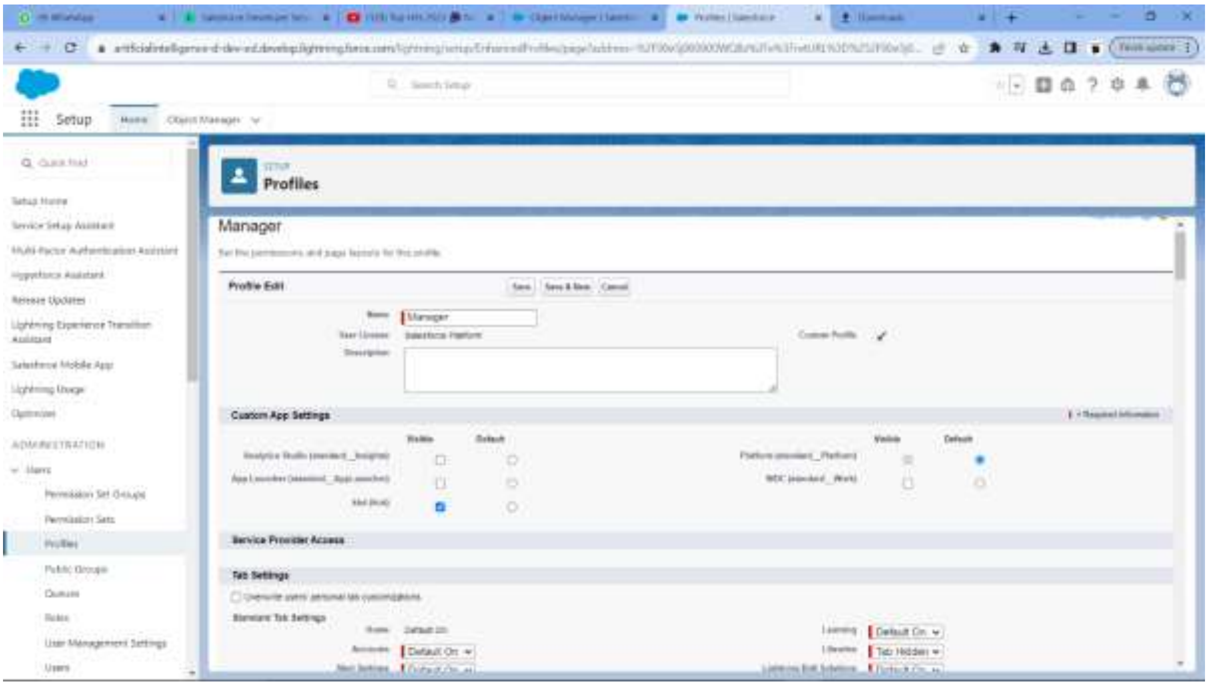


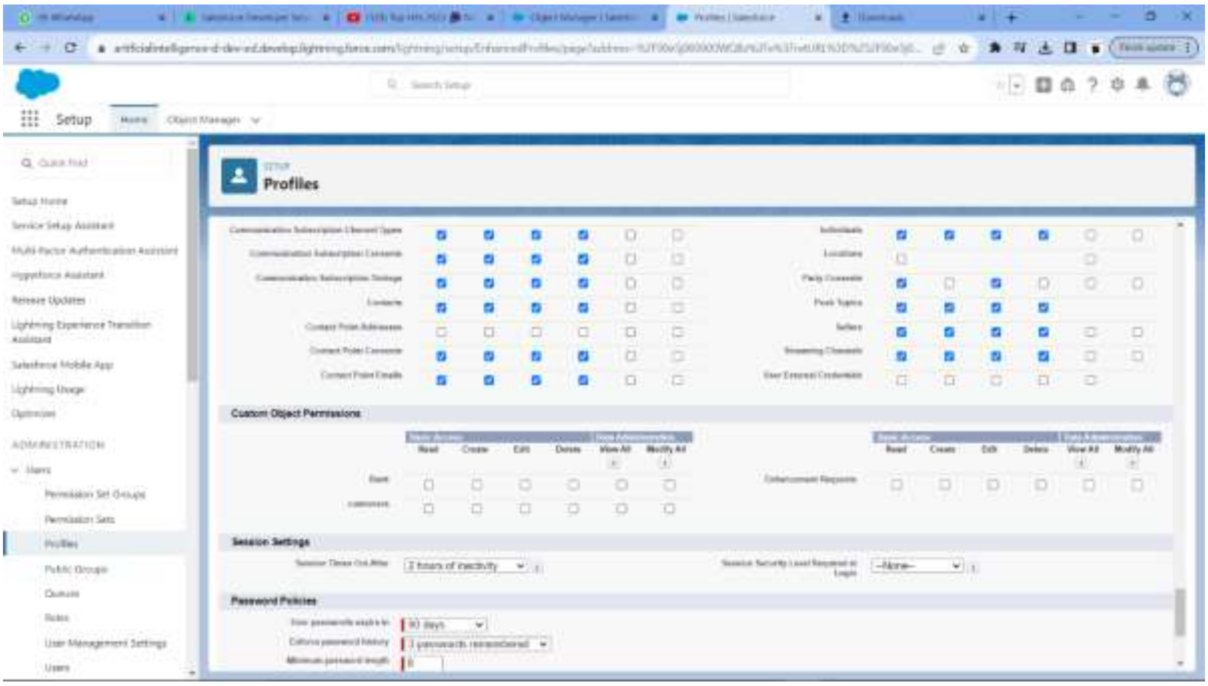

Setup
Profiles
Profiles

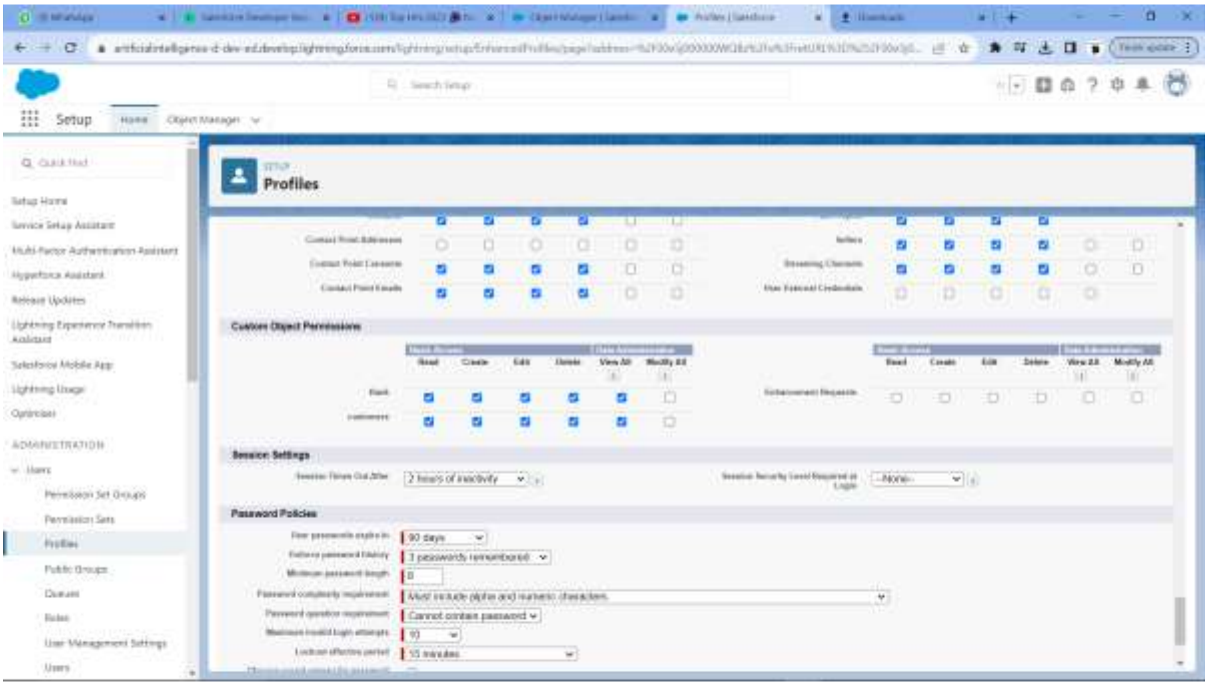

Setup
Profiles
Clone Profile
You must select an existing profile to clone from.

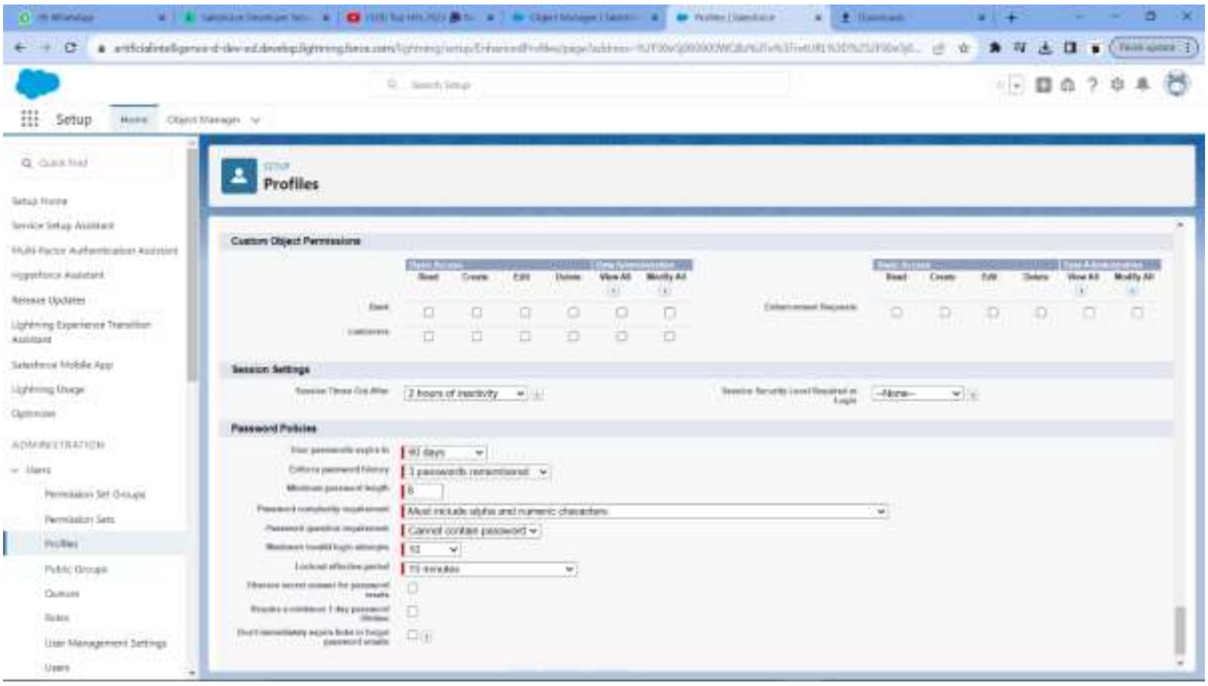

Setup
Profiles
Clone Profile
You must select an existing profile to clone from.

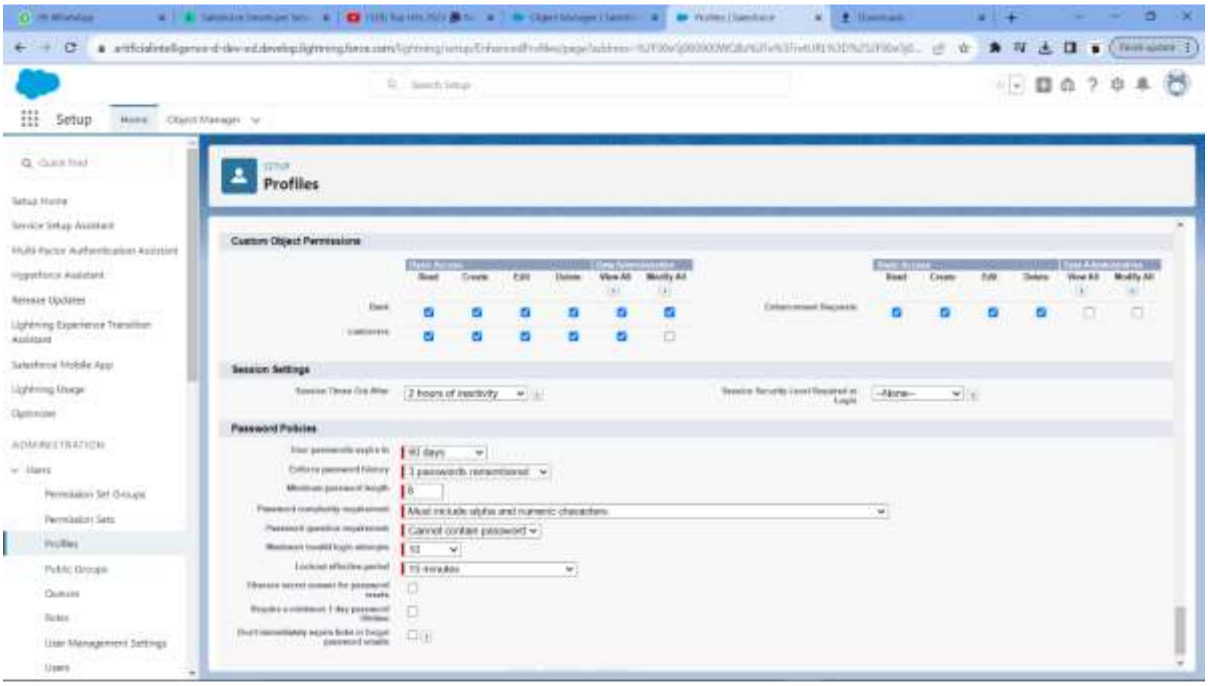

Setup
Profiles
Manager
Profile Detail
Page Layouts

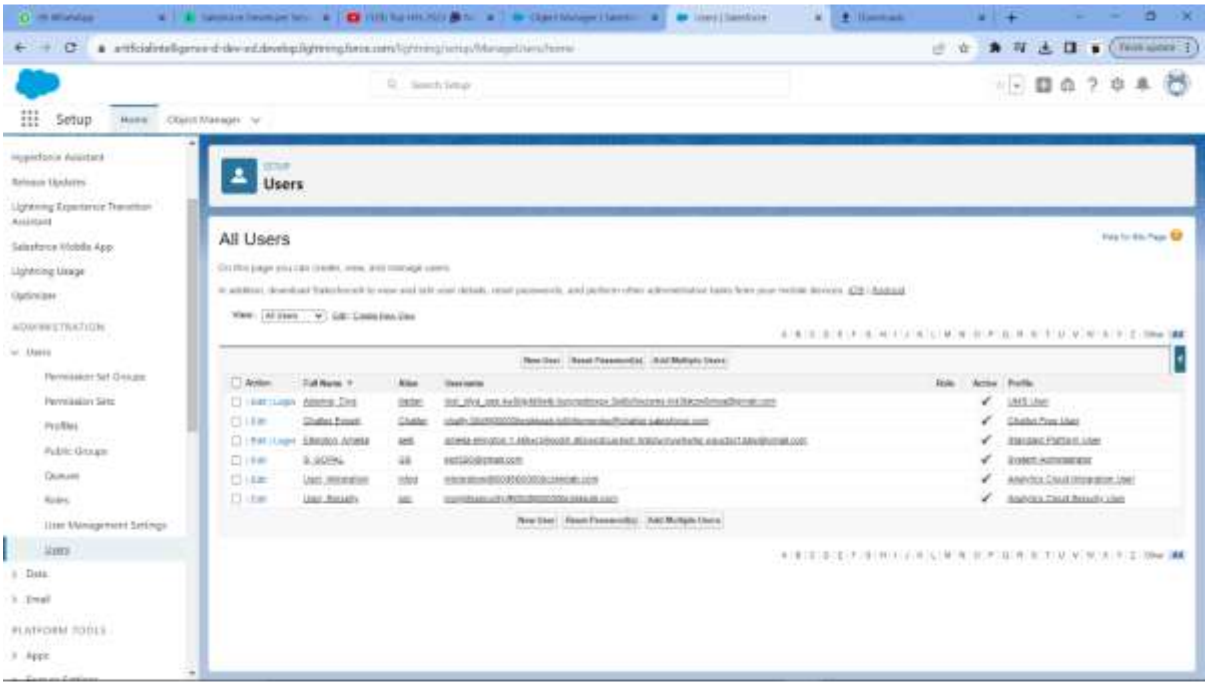

Setup
Profiles
Manager
Profile Edit
Custom App Settings
Service Provider Access
Tab Settings

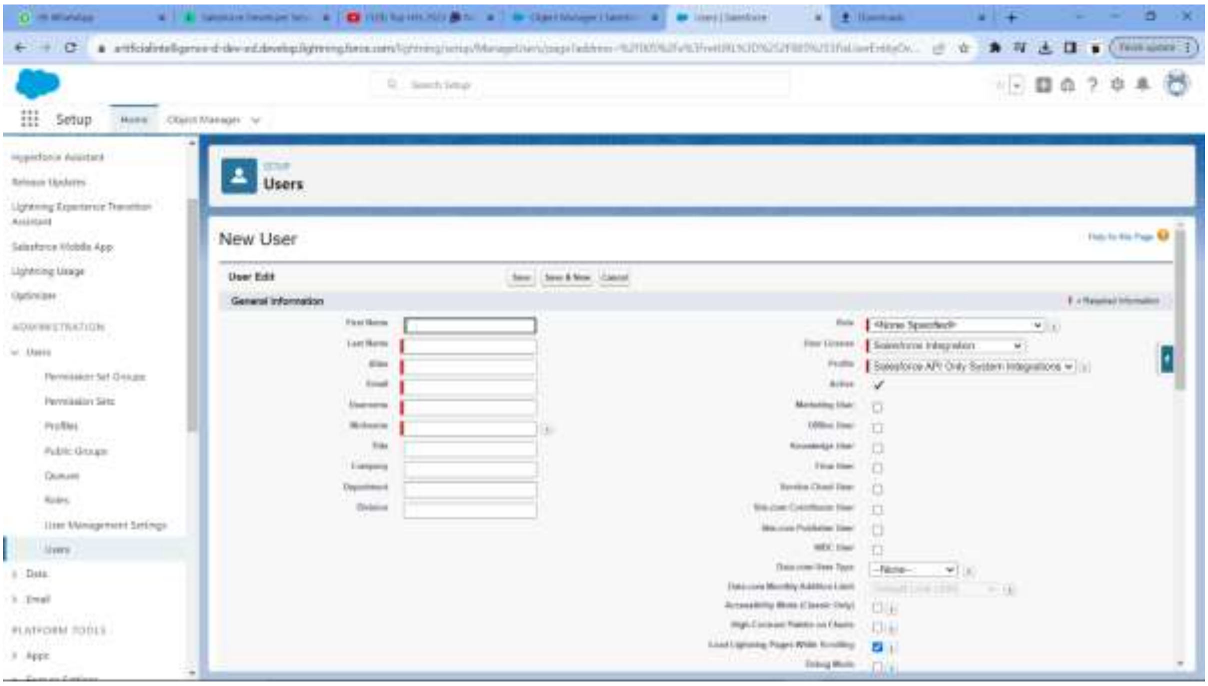

Setup
Profiles
Custom Object Permissions
Session Settings
Password Policies

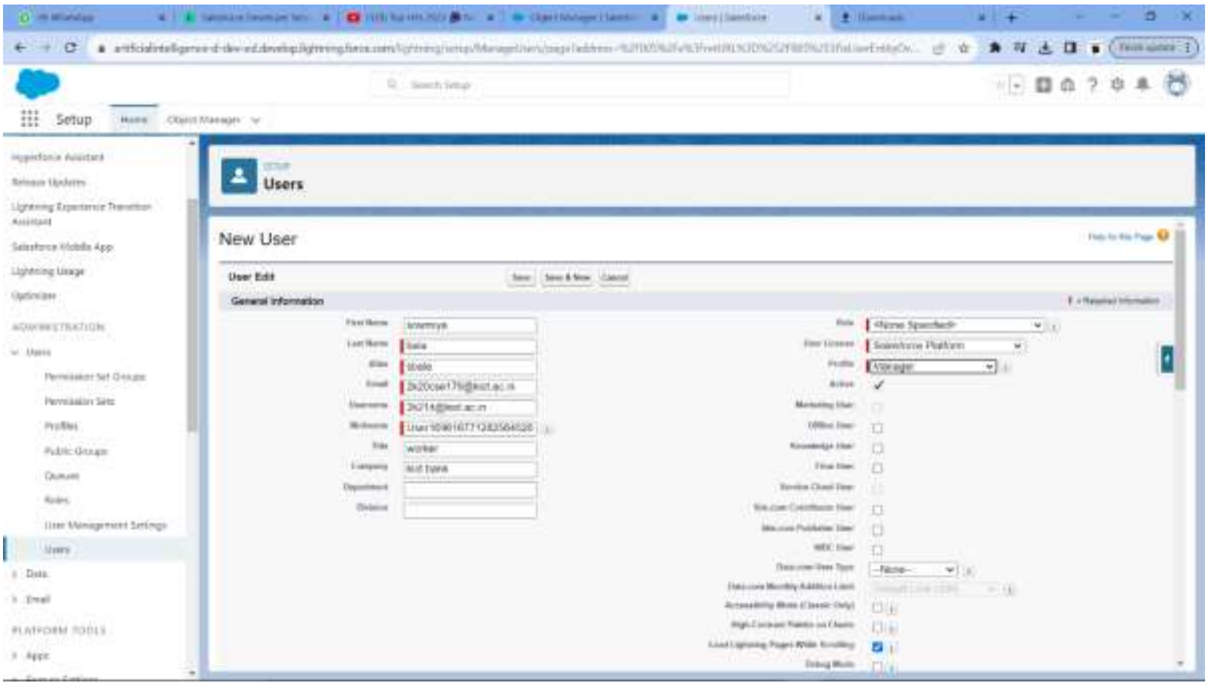

Setup
Profiles
Custom Object Permissions
Session Settings
Password Policies
90 days
3 passwords remembered
Must include alpha and numeric characters
Cannot contain password
15 minutes

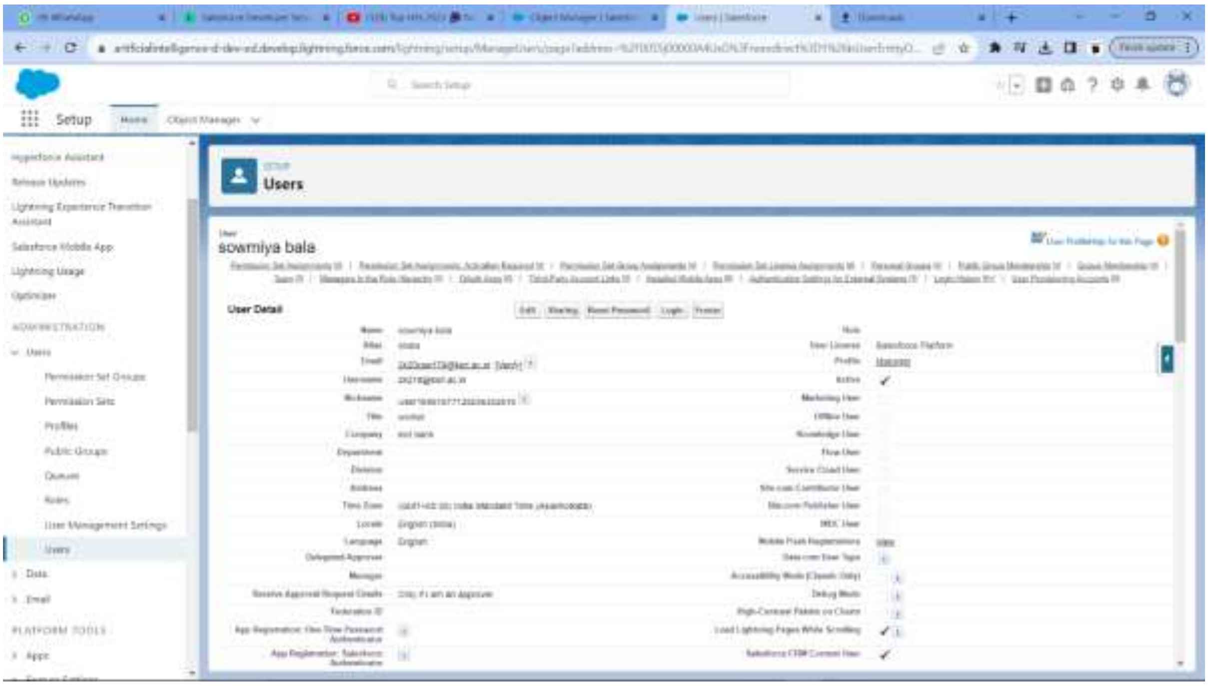

Setup
Profiles
Custom Object Permissions
Session Settings
Password Policies
90 days
3 passwords remembered
Must include alpha and numeric characters
Cannot contain password
15 minutes

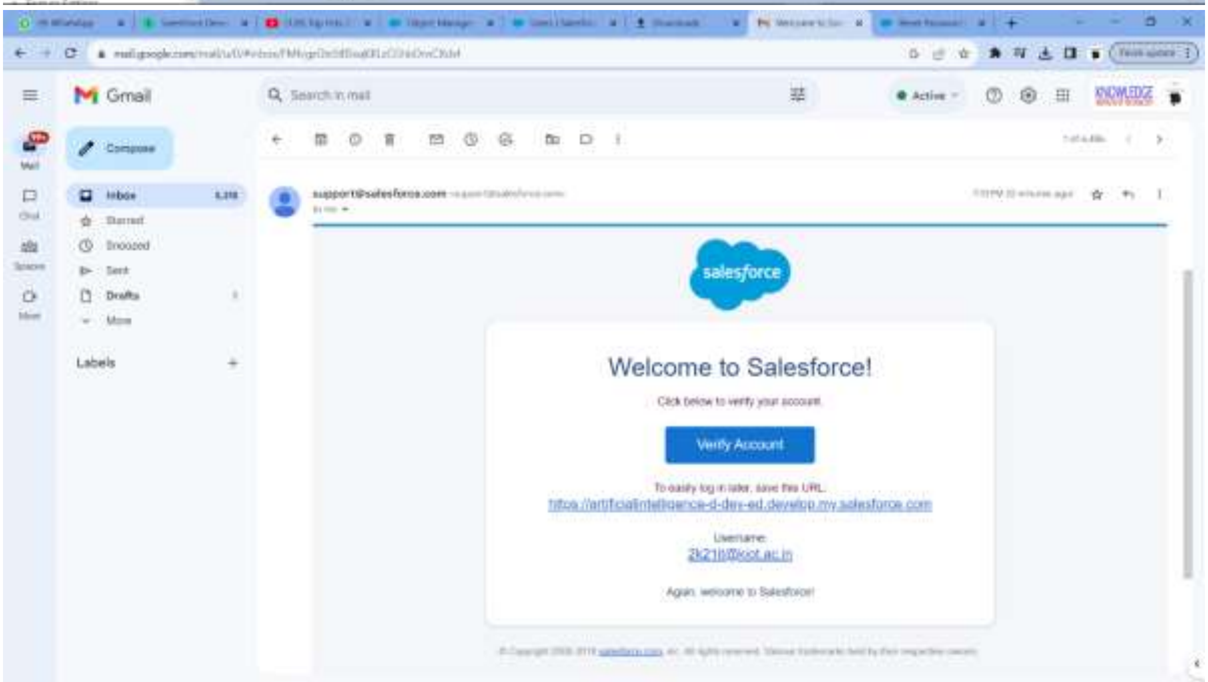

Setup
Profiles
Custom Object Permissions
Session Settings
Password Policies

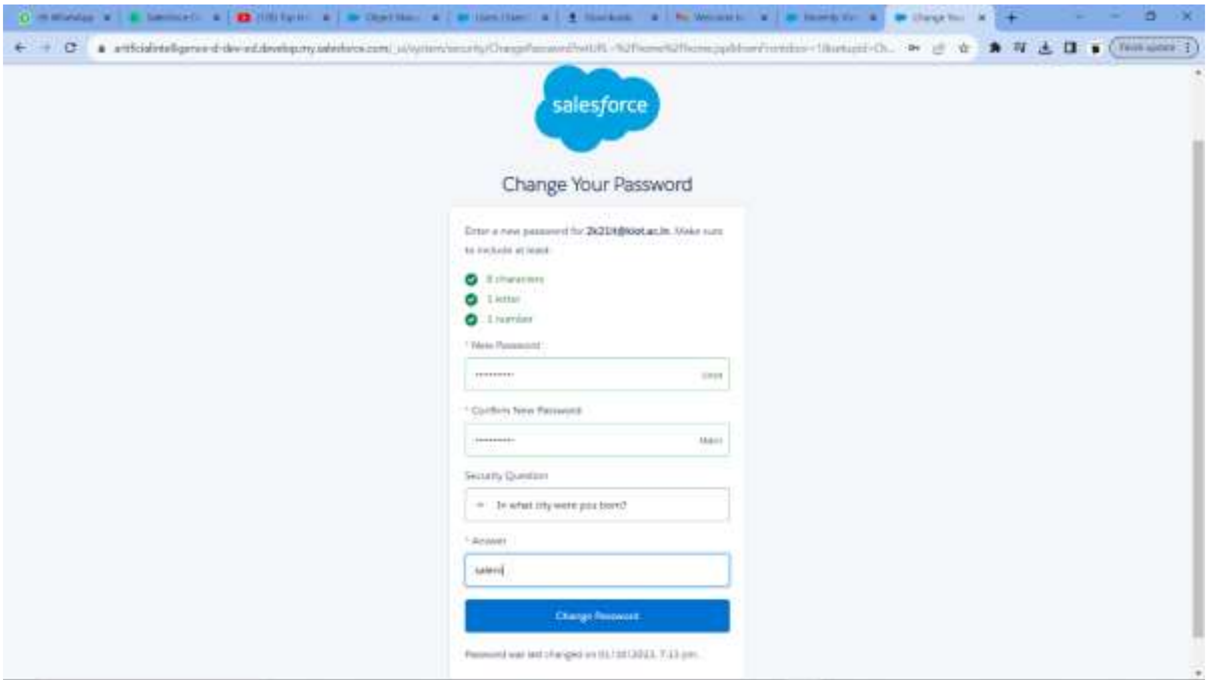

Setup
Users
All Users

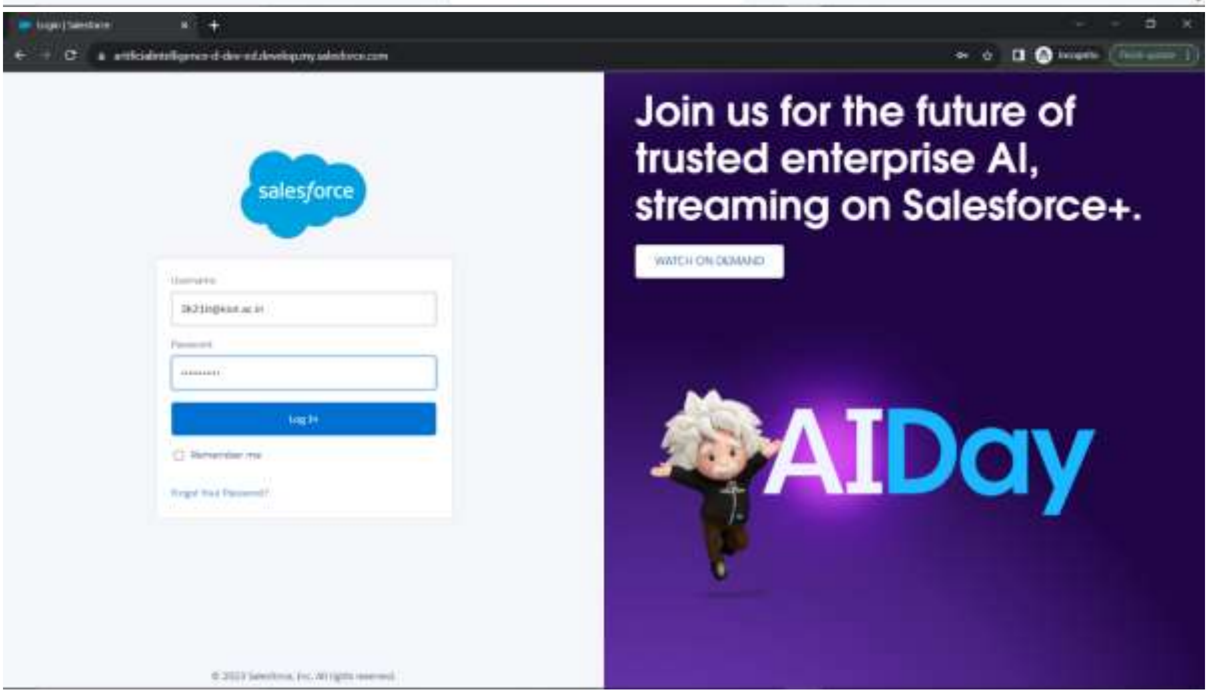

Setup
Users
New User
User Edit
General Information

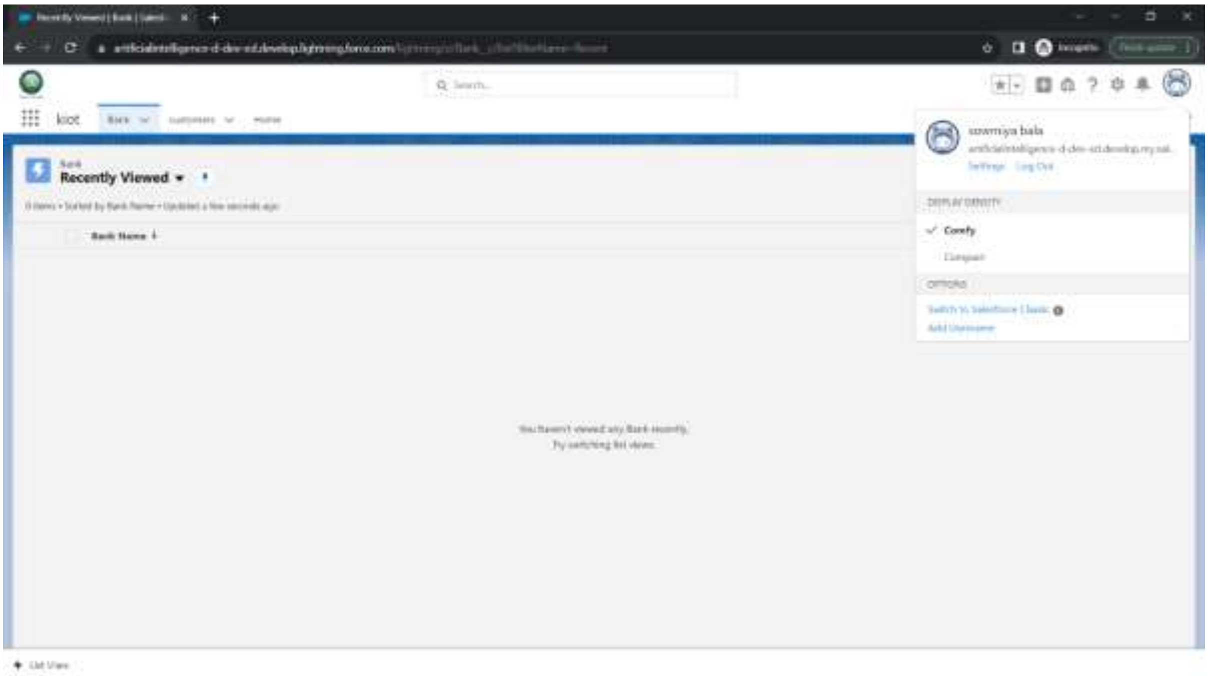

Setup
Users
New User
User Edit
General Information

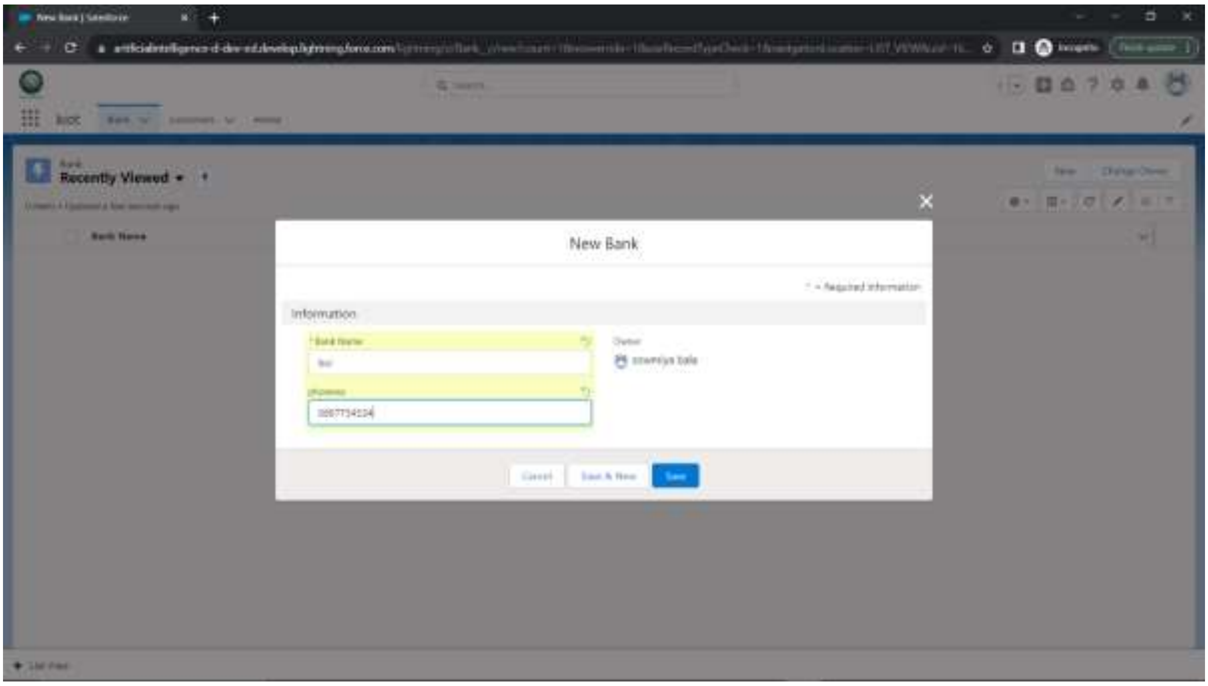

Setup
Users
sowmiya bala
User Detail

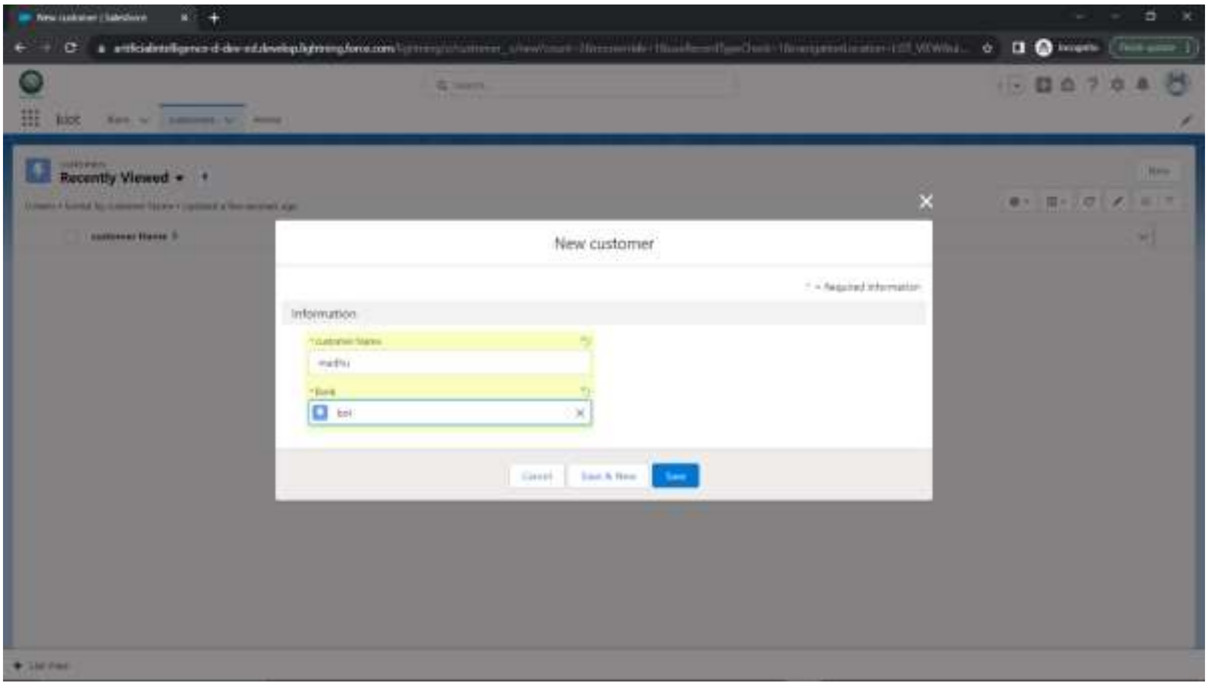

Gmail
Compose
Inbox
Labels
salesforce
Welcome to Salesforce!
Click below to verify your account.
Verify Account
To easily log in later, save this URL.
https://artificialintelligence-d-dev-ed.develop.my.salesforce.com
Username:
Again, welcome to Salesforce!

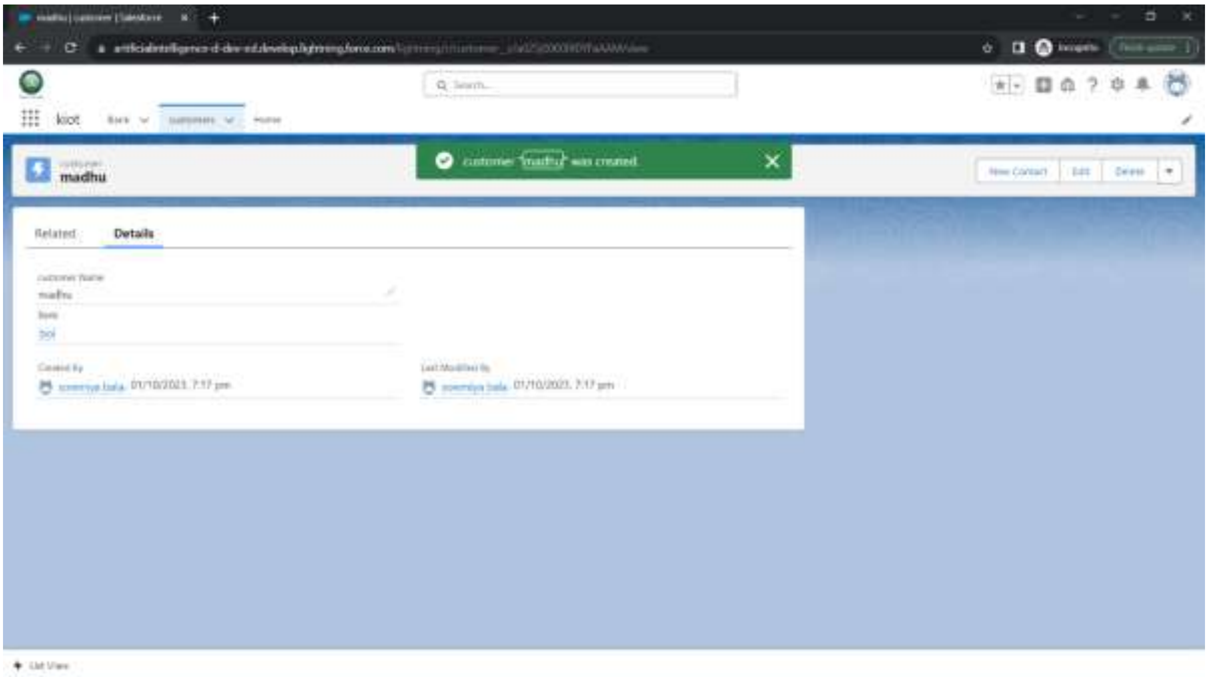

salesforce
Change Your Password

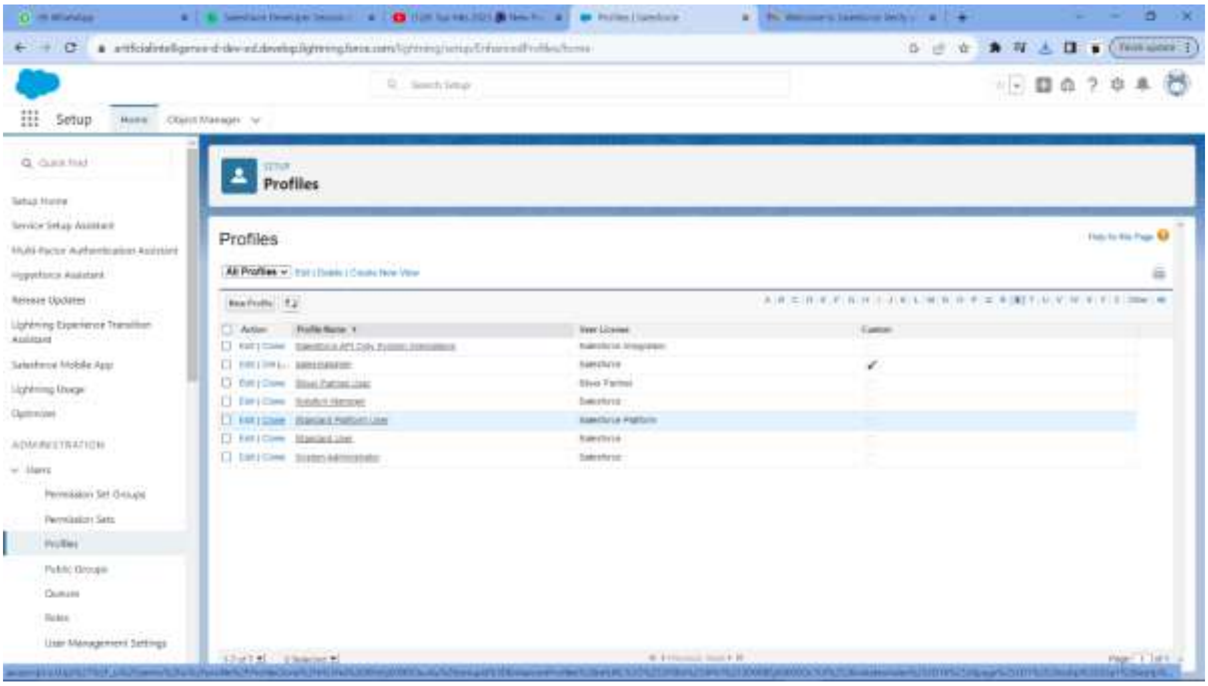

salesforce
Join us for the future of
trusted enterprise AI,
streaming on Salesforce+.
WATCH ON DEMAND
AIDay

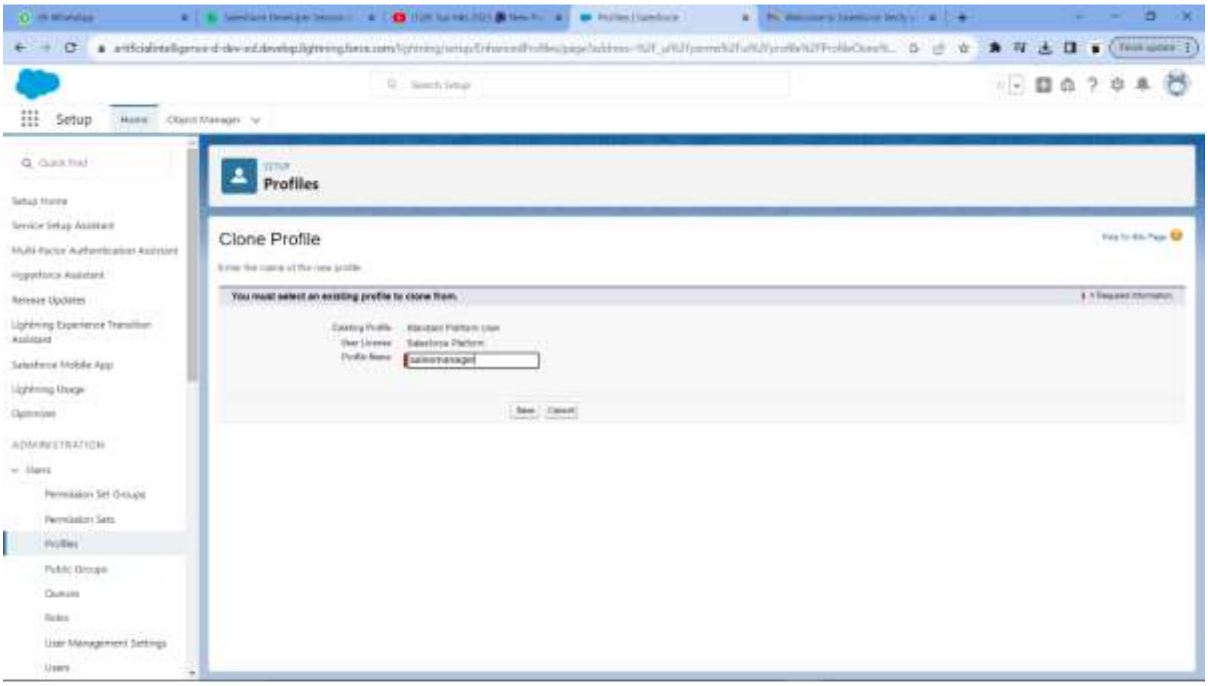


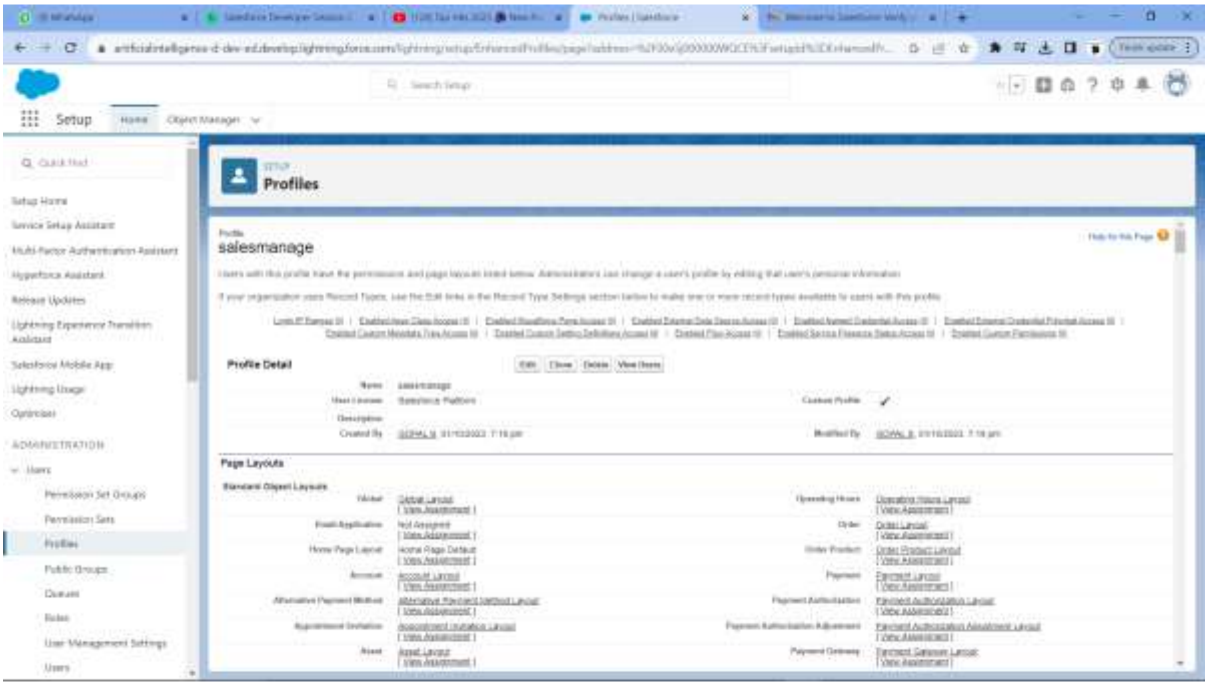


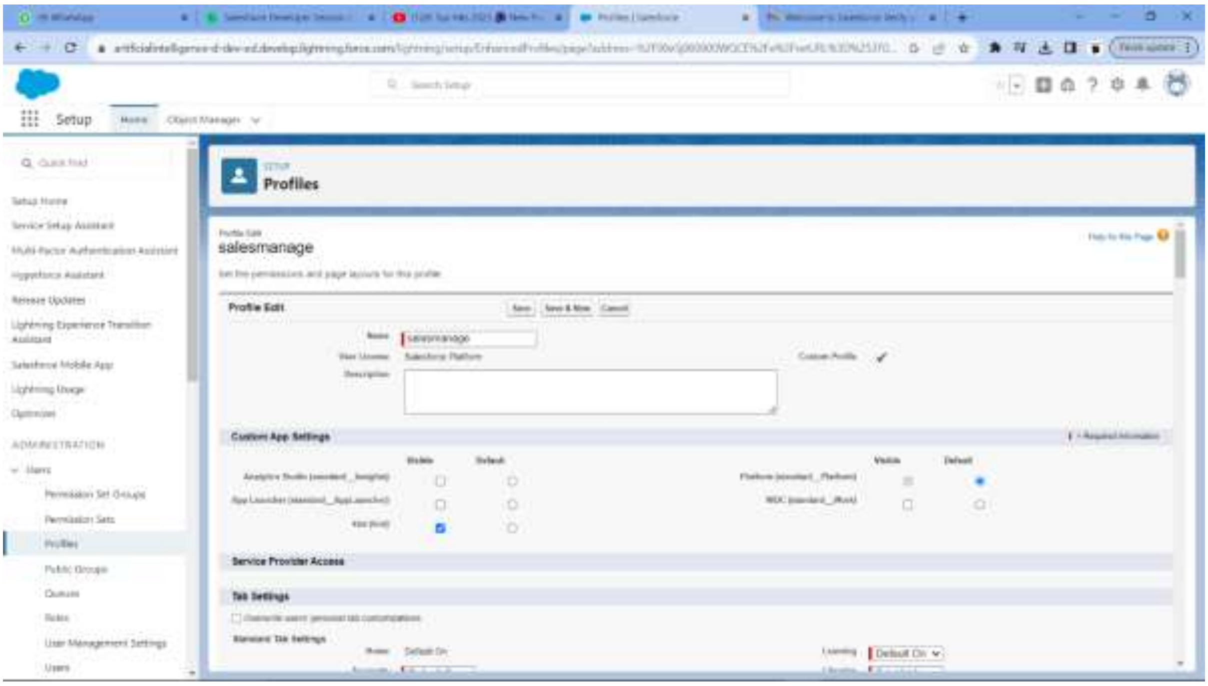

artificialintelligence-d-dev-ed.develop.lightning.force.com
kiot
Recently Viewed
New customer
Information
madhu
Save

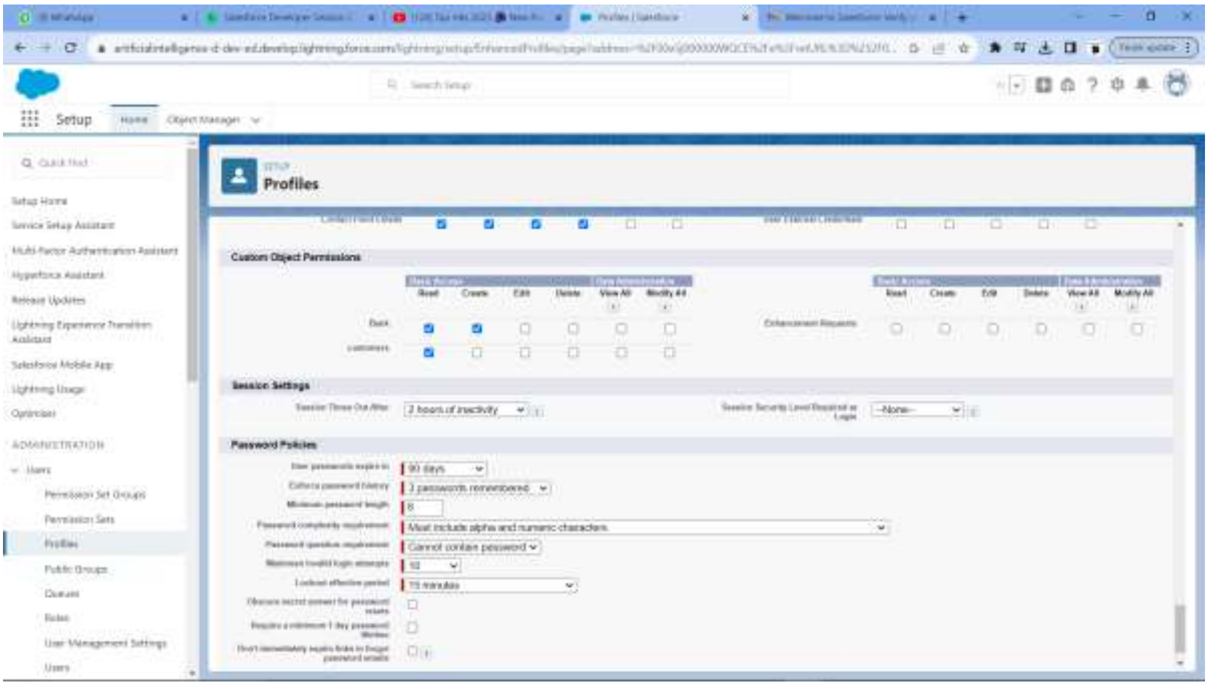

artificialintelligence-d-dev-ed.develop.lightning.force.com
kiot
madhu
customer "madhu" was created.
Related
Details
madhu

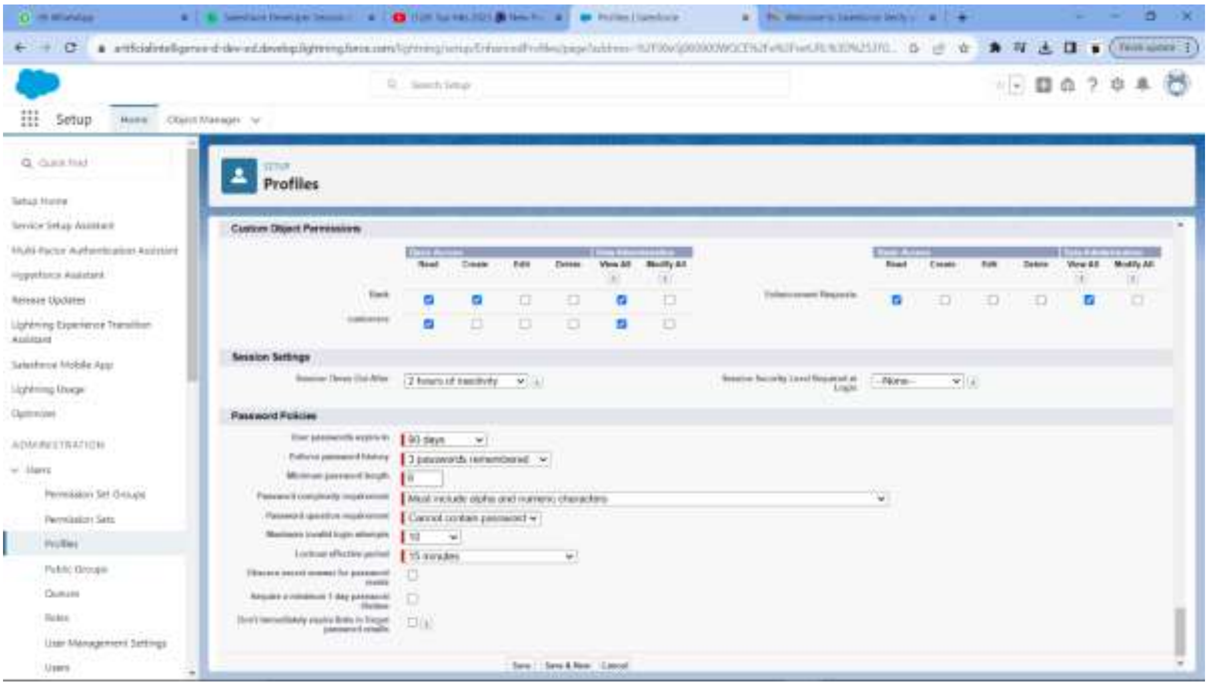

Setup
Profiles
Profiles
All Profiles

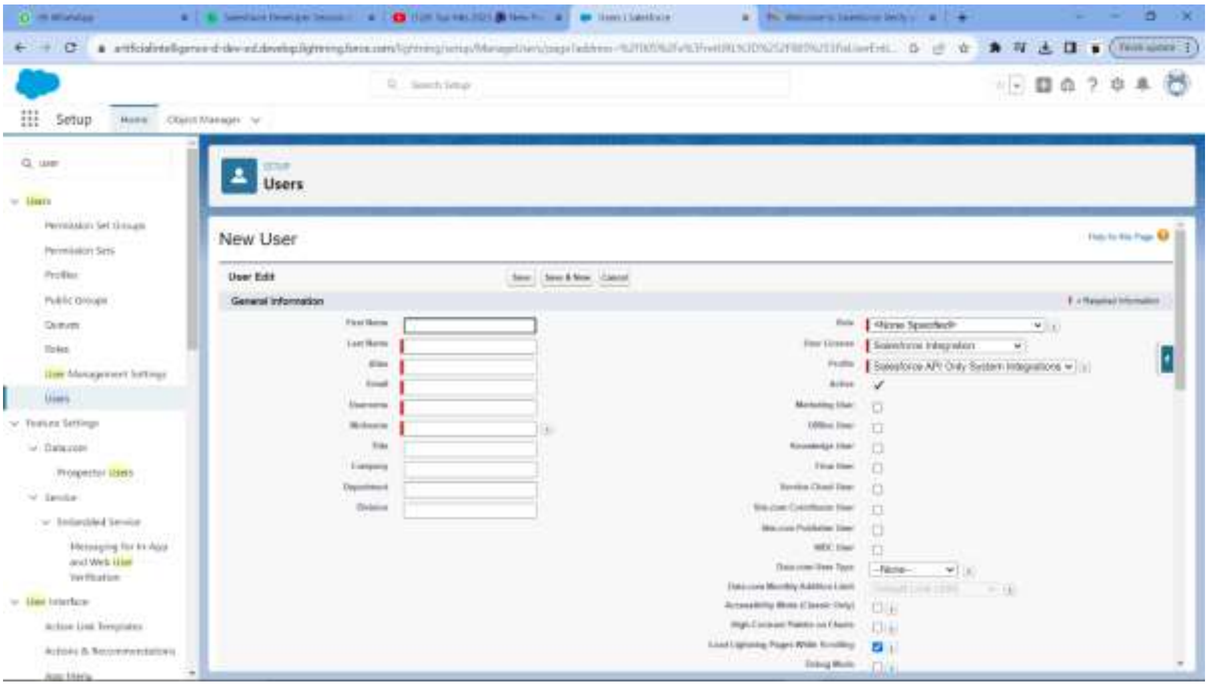

Setup
Profiles
Clone Profile
You must select an existing profile to clone from.

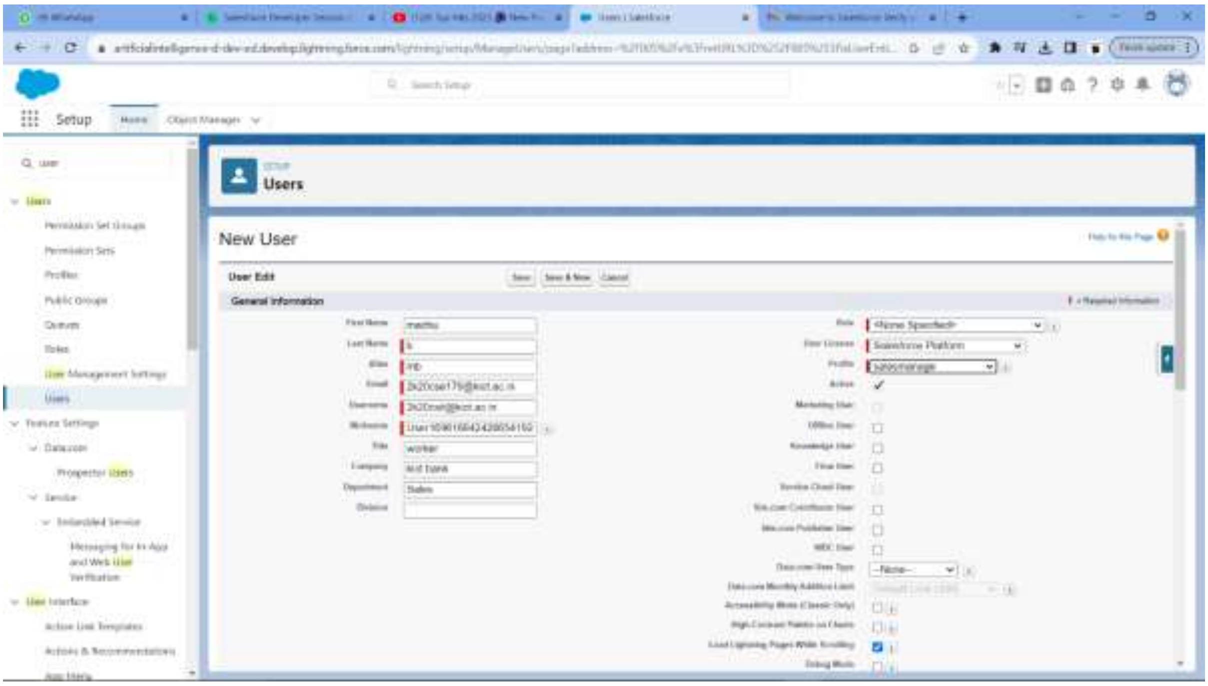

Setup
Profiles
salesmanage
Profile Detail
Page Layouts
Standard Object Layouts

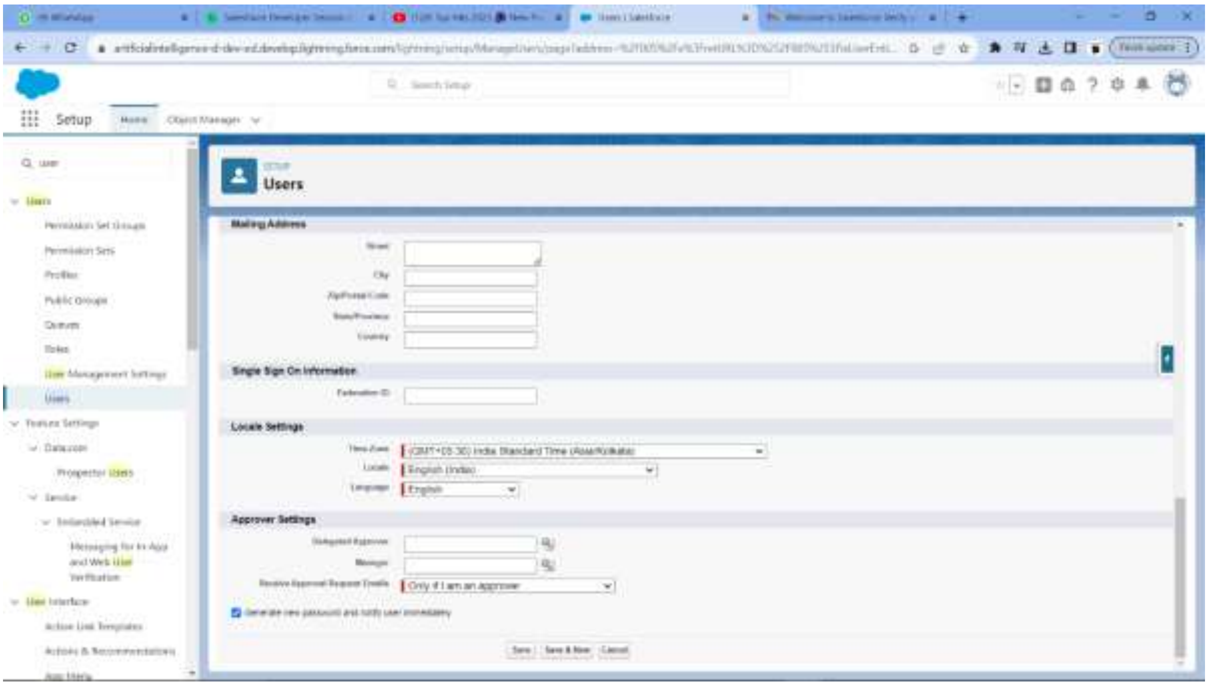

Setup
Profiles
salesmanage
Profile Edit
Custom App Settings
Service Provider Access
Tab Settings

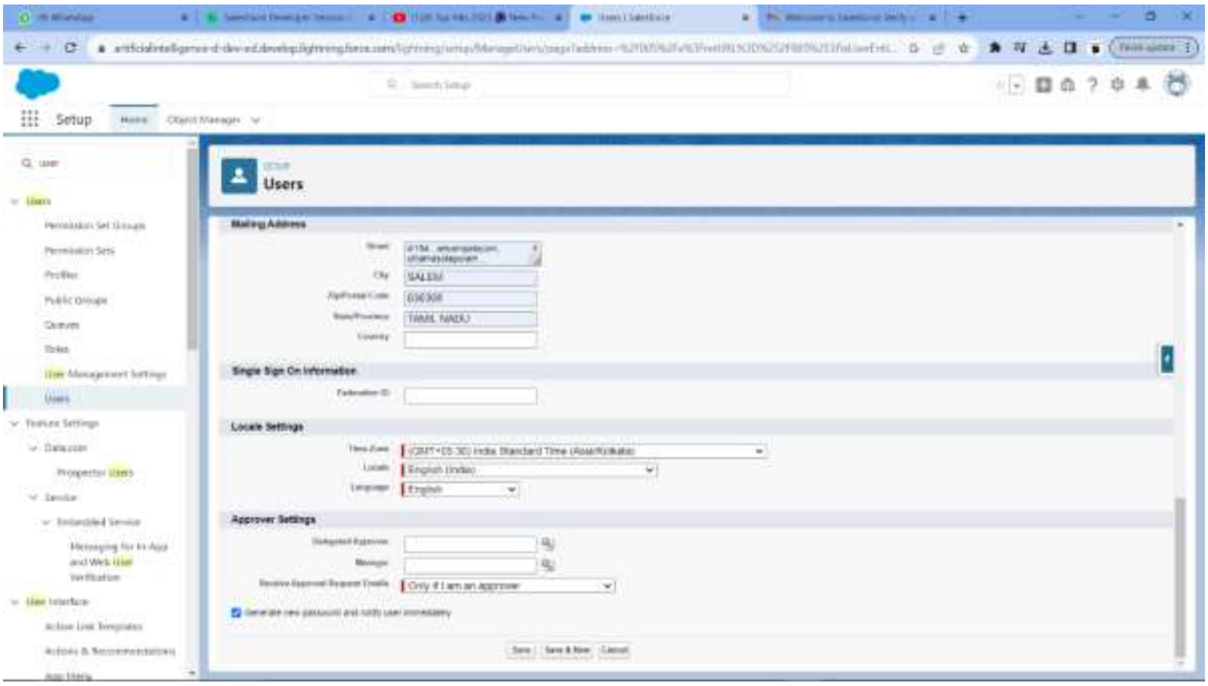

Setup
Profiles
Custom Object Permissions
Session Settings
2 hours of inactivity
--None--
Password Policies
90 days
3 passwords remembered
8
Must include alpha and numeric characters
Cannot contain password
10
15 minutes

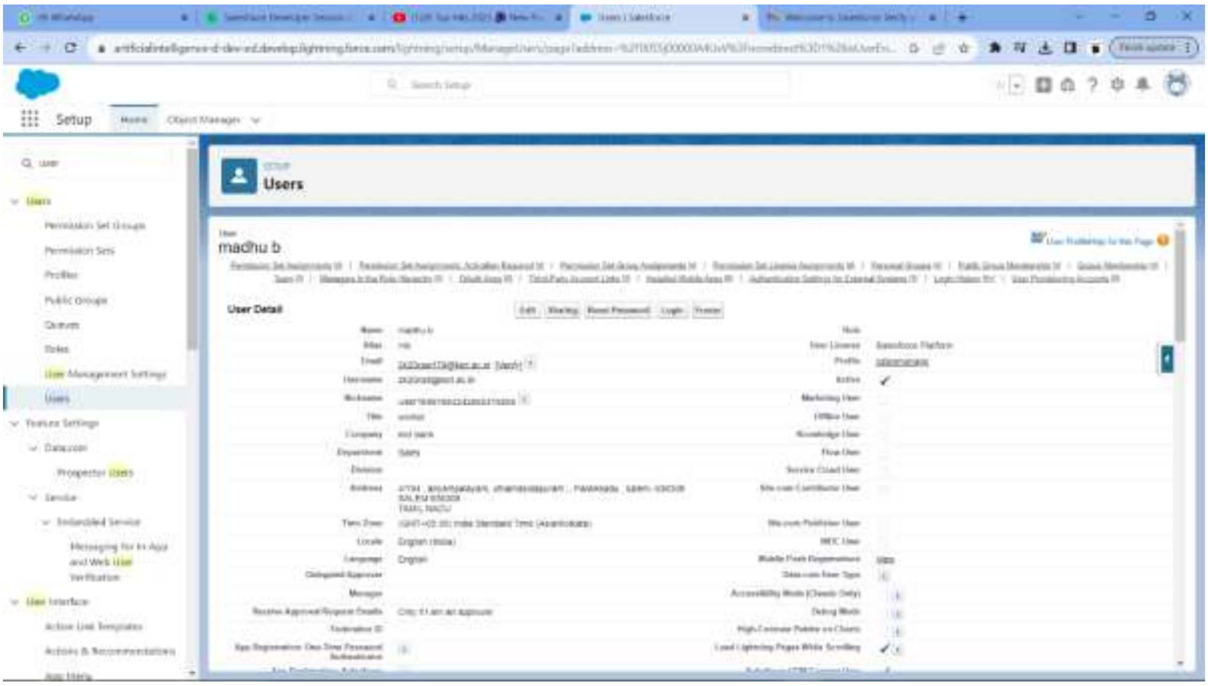

Setup
Profiles
Custom Object Permissions
Session Settings
2 hours of inactivity
--None--
Password Policies
90 days
3 passwords remembered
8
Must include alpha and numeric characters
Cannot contain password
10
15 minutes

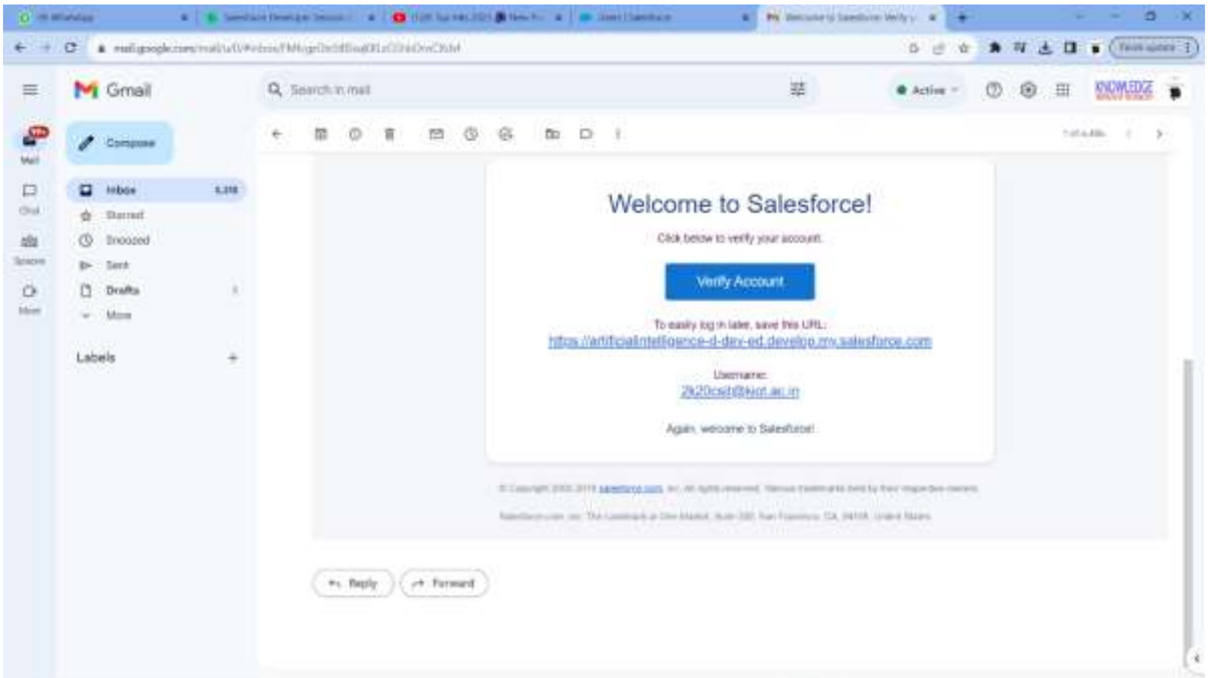


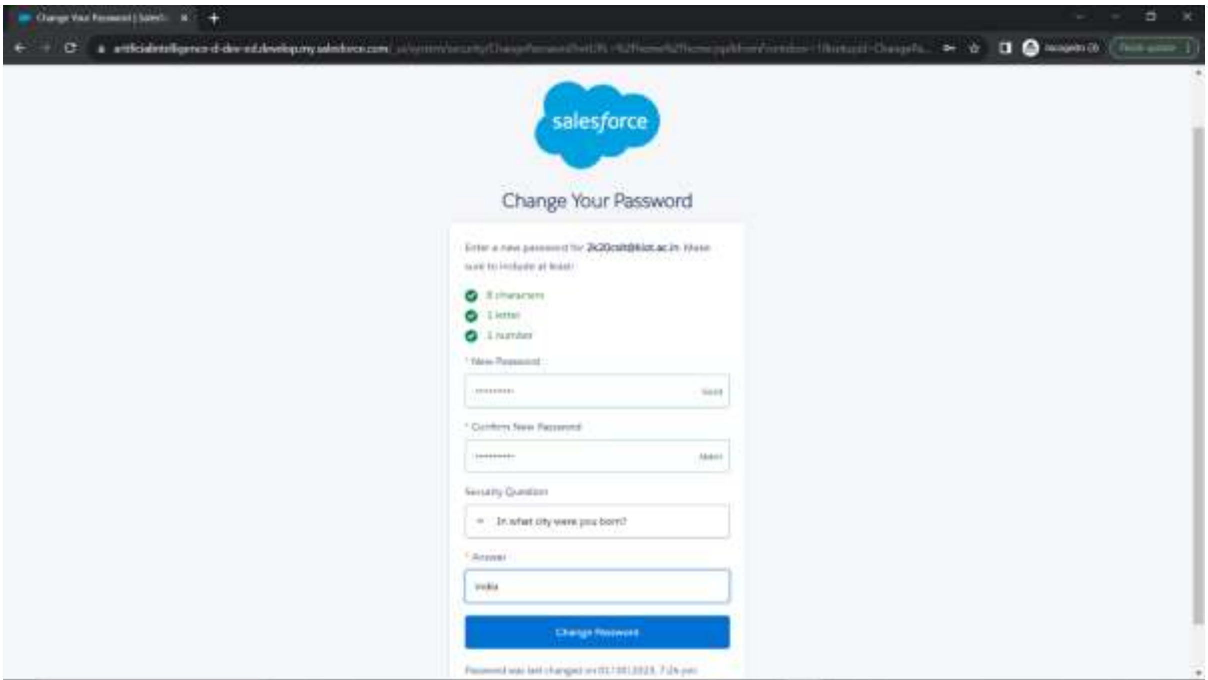


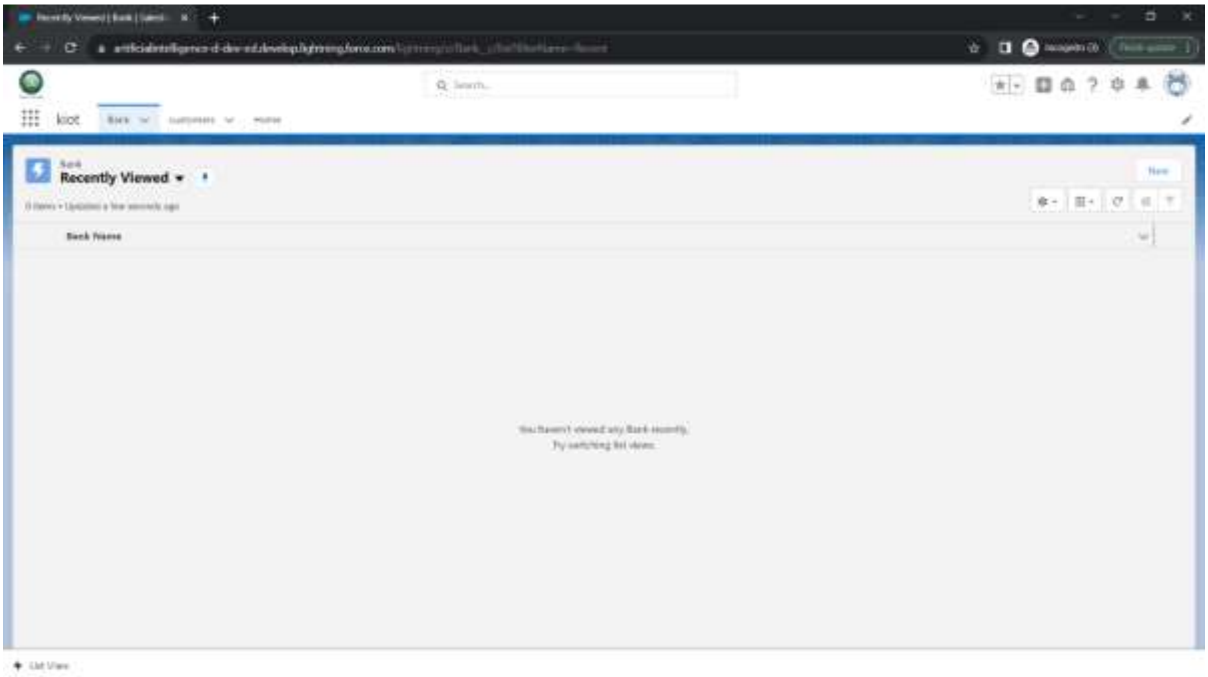

Setup
Users
Mailing Address
Single Sign On Information
Locale Settings
(GMT+05:30) India Standard Time (Asia/Kolkata)
English (India)
English
Approver Settings
Only if I am an approver

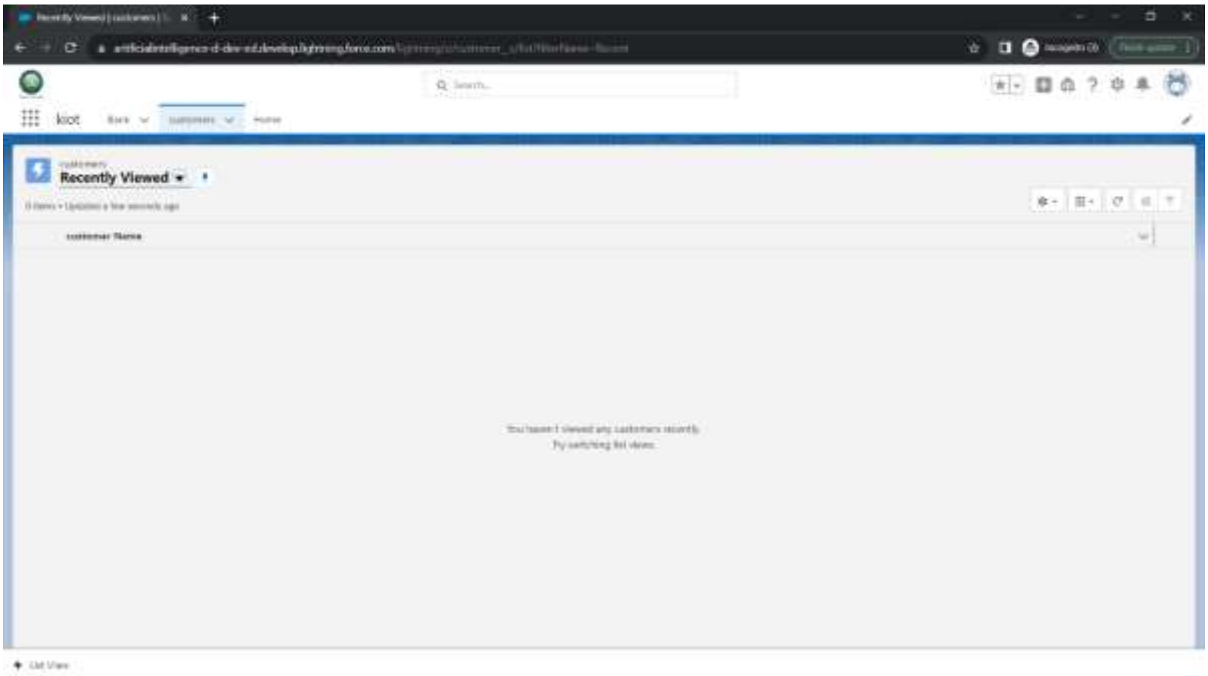

Setup
Users
Mailing Address
SALEM
TAMIL NADU
Single Sign On Information
Locale Settings
(GMT+05:30) India Standard Time (Asia/Kolkata)
English (India)
English
Approver Settings
Only if I am an approver

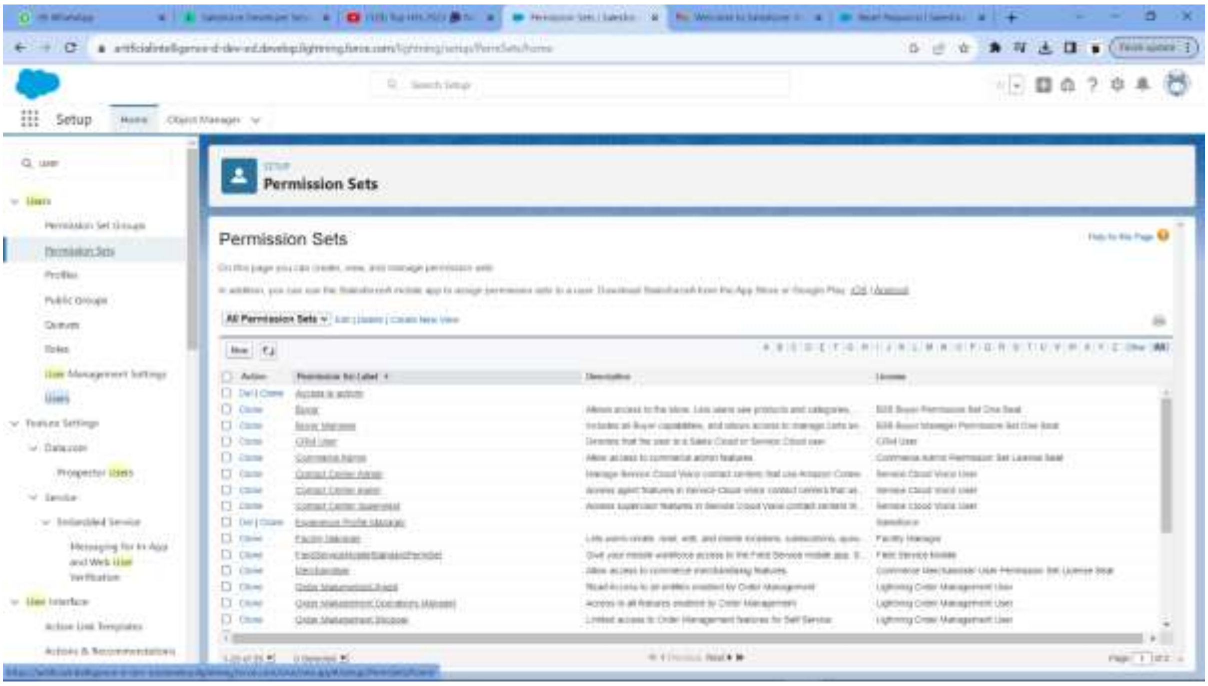

Setup
Users
madhu b
User Detail


Gmail
Compose
Inbox
Starred
Snoozed
Sent
Drafts
More
Labels
Welcome to Salesforce!
Click below to verify your account.
Verify Account
To easily log in later, save this URL:
Username:
Again, welcome to Salesforce!
Reply
Forward


salesforce
Change Your Password
In what city were you born?


Recently Viewed
Bank Name


kiot
Recently Viewed
customer Name


Setup
Permission Sets
Permission Sets

Step 2:

Permission Sets:

• Create two permission sets, one for User A and one for User B.

Object-Level Security:

• In each profile and permission set, set the object-level security for the Account object to

"Read" to ensure that both I-Jser A and I-Jser B can view Account records.

Record-Level Security:

• Implement record-level security using Criteria-Based Sharing Rules.

• Create a sharing rule that shares Account records owned by User A with User A and

records owned by IJser B with user B.

• For the sharing rule criteria, specify that records owned by User A are shared with user

A, and records owned by User B are shared with User B.

Ownership:

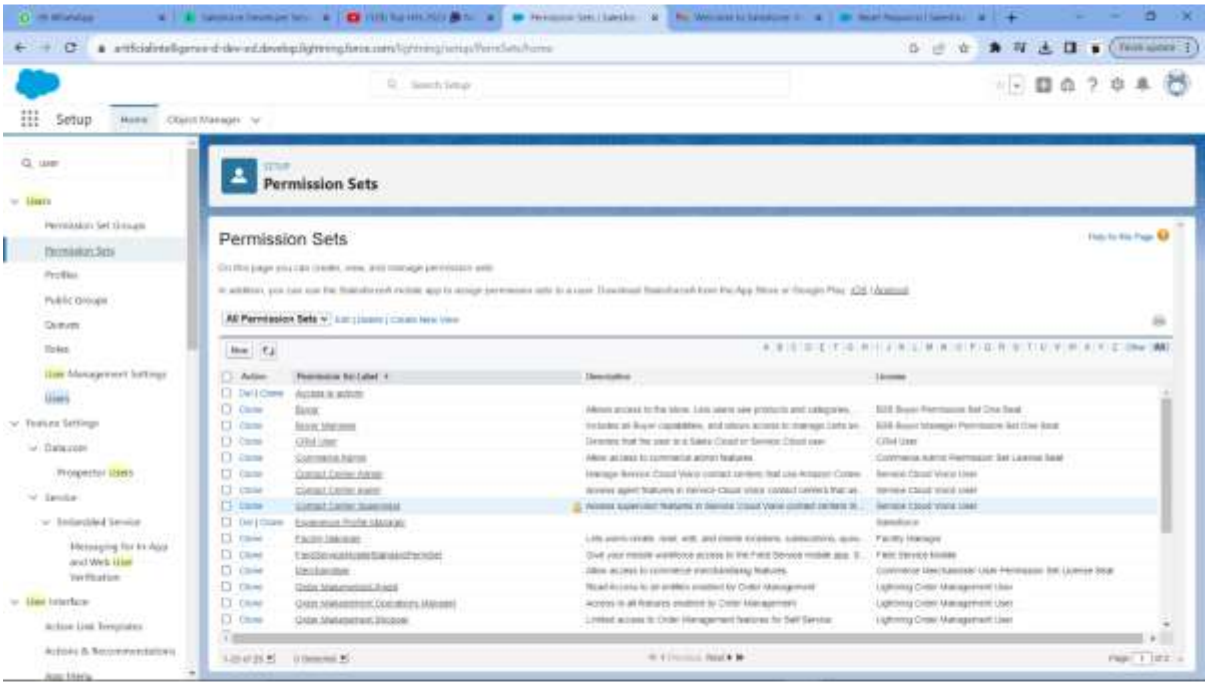
• Ensure that the Account records are owned by the respective users, with User A owning
their records and User B owning their records.

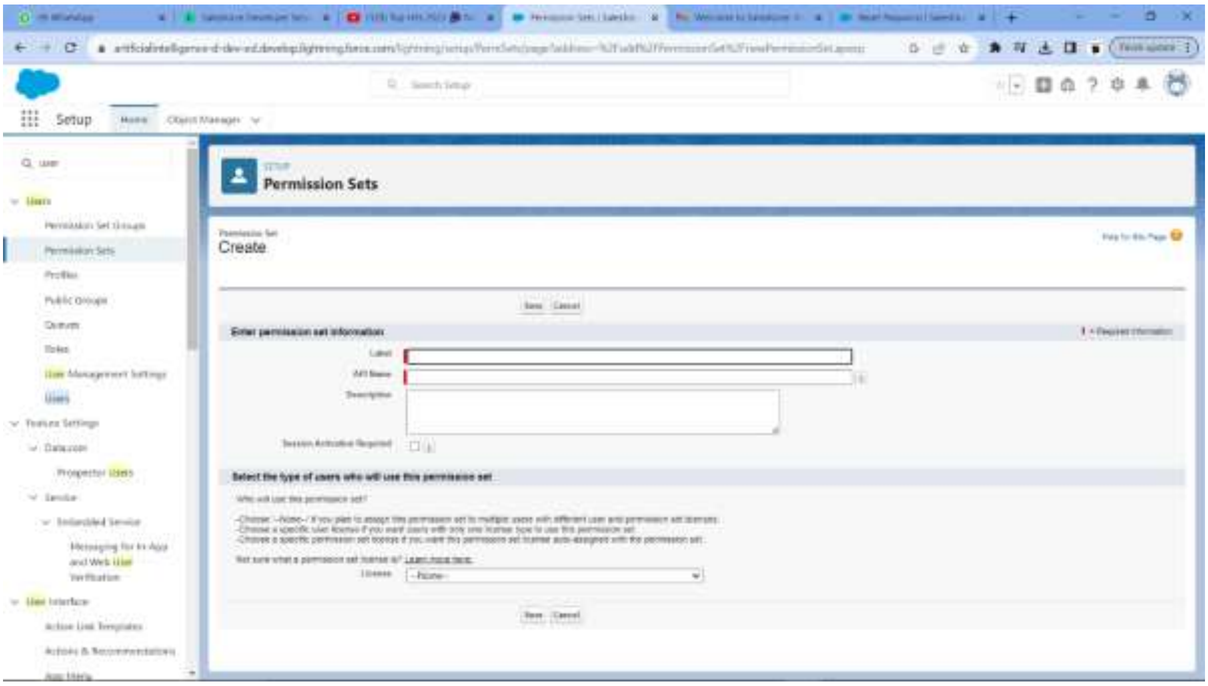
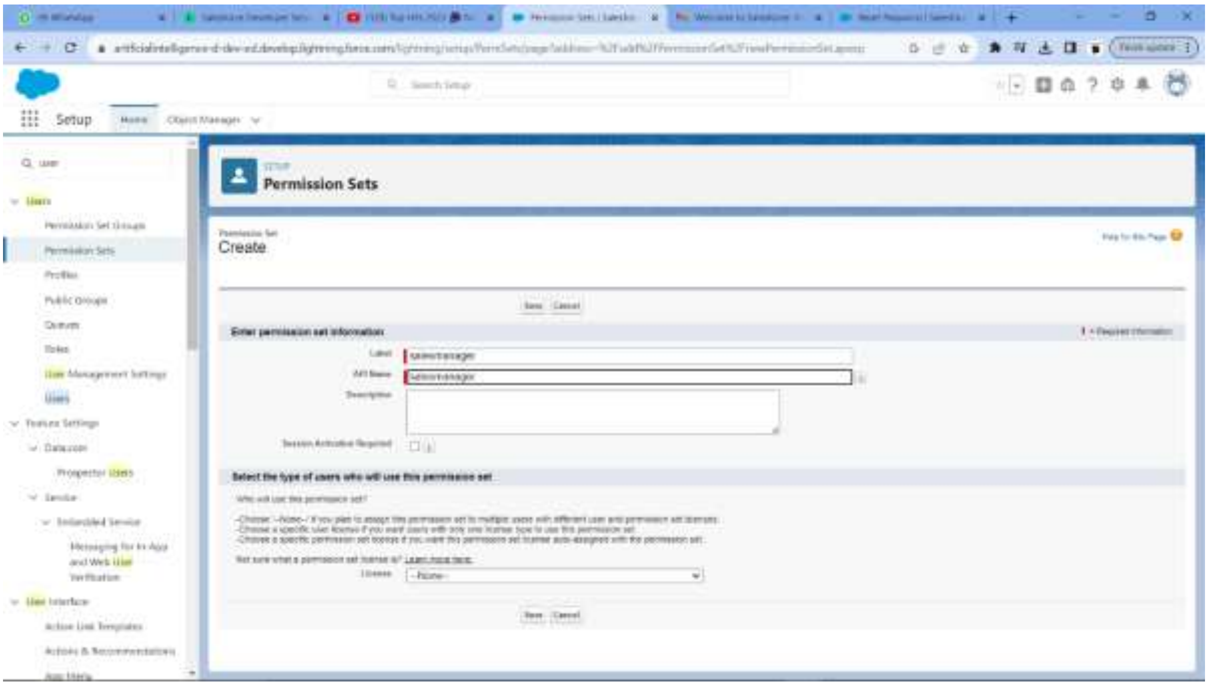
Organization-Wide Defaults:

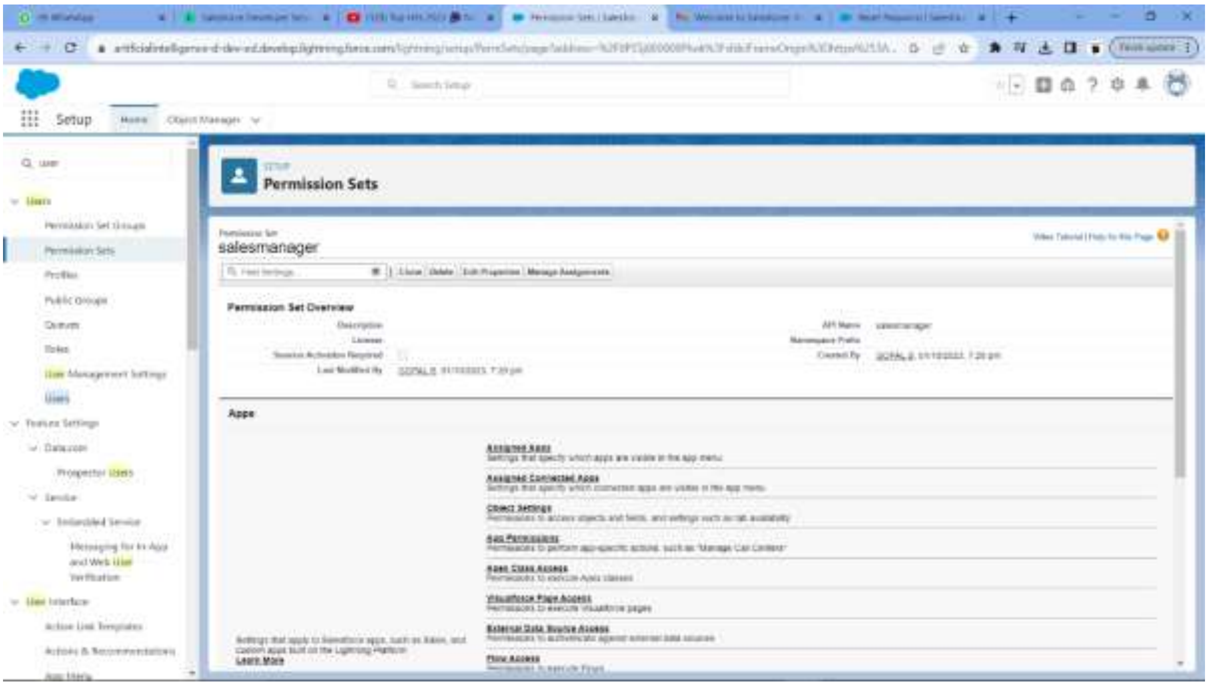
• Set the organization-wide defaults for the Account object to "Private" to ensure that
records are private by default.

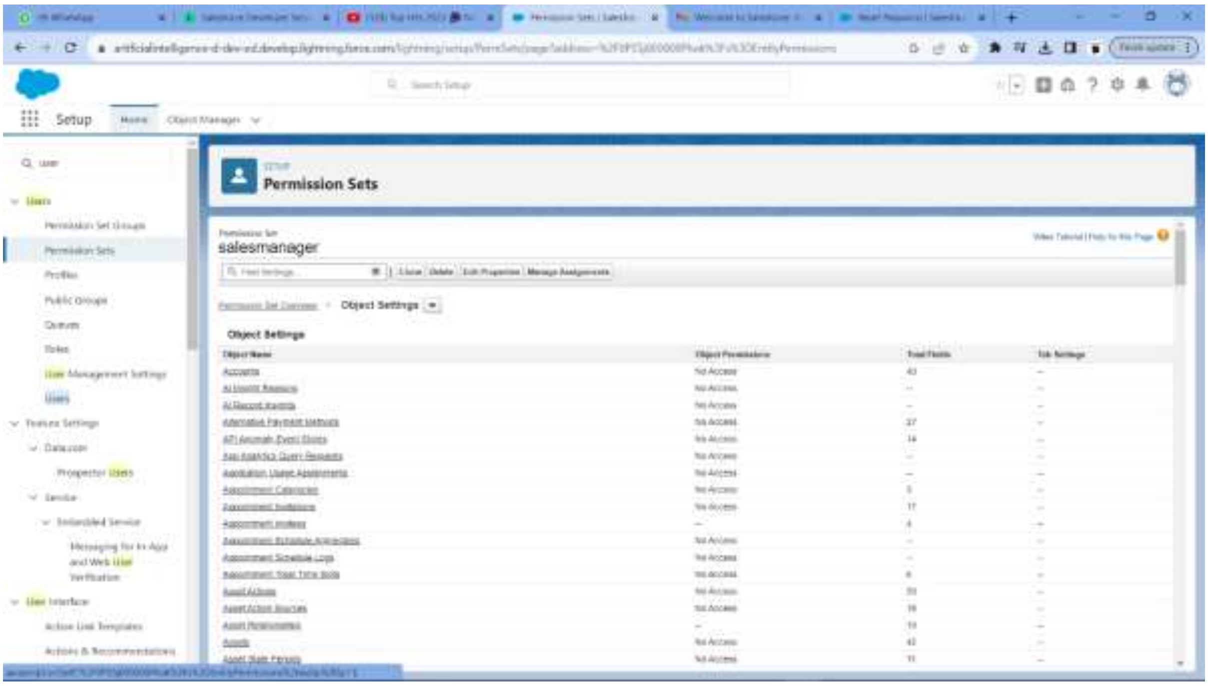
Testing:

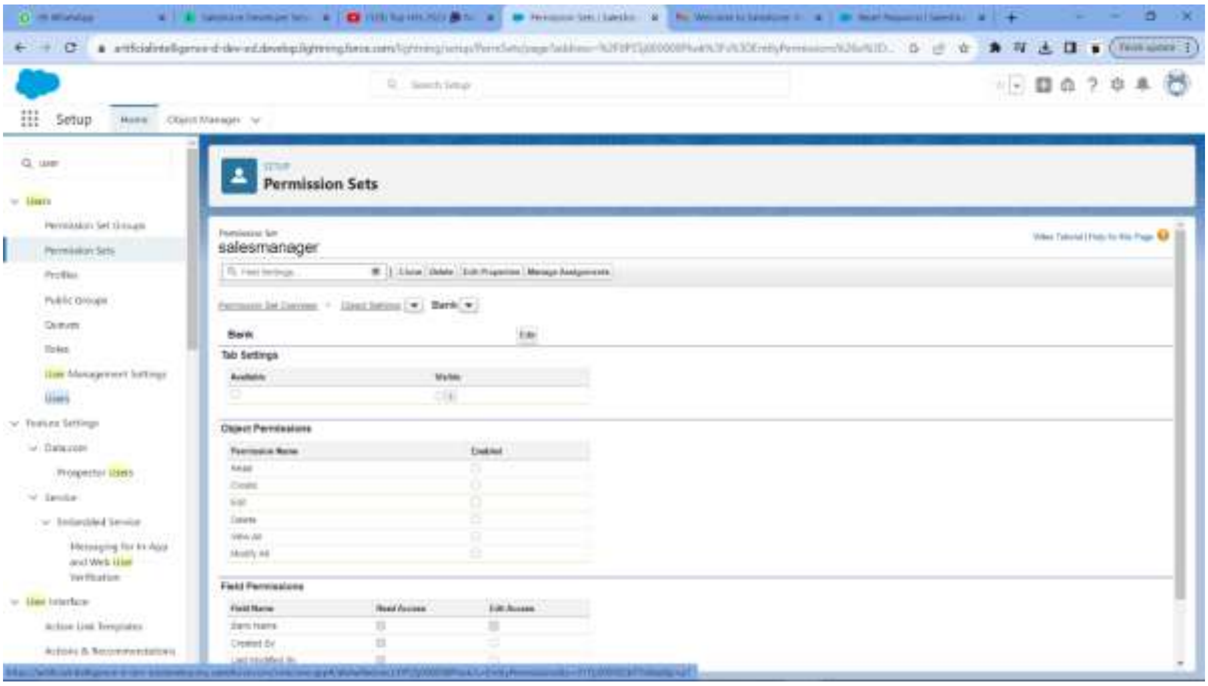
• Test the setup by logging in as User A and User B separately to verify that they cannot
access each other's records.

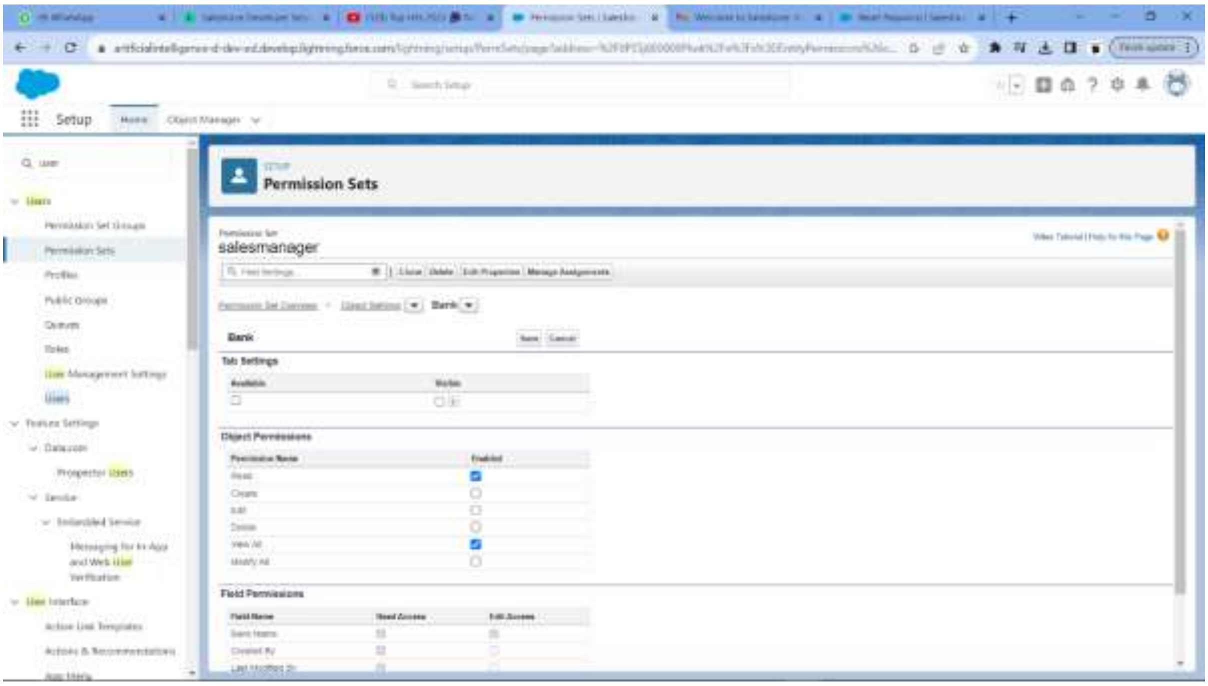


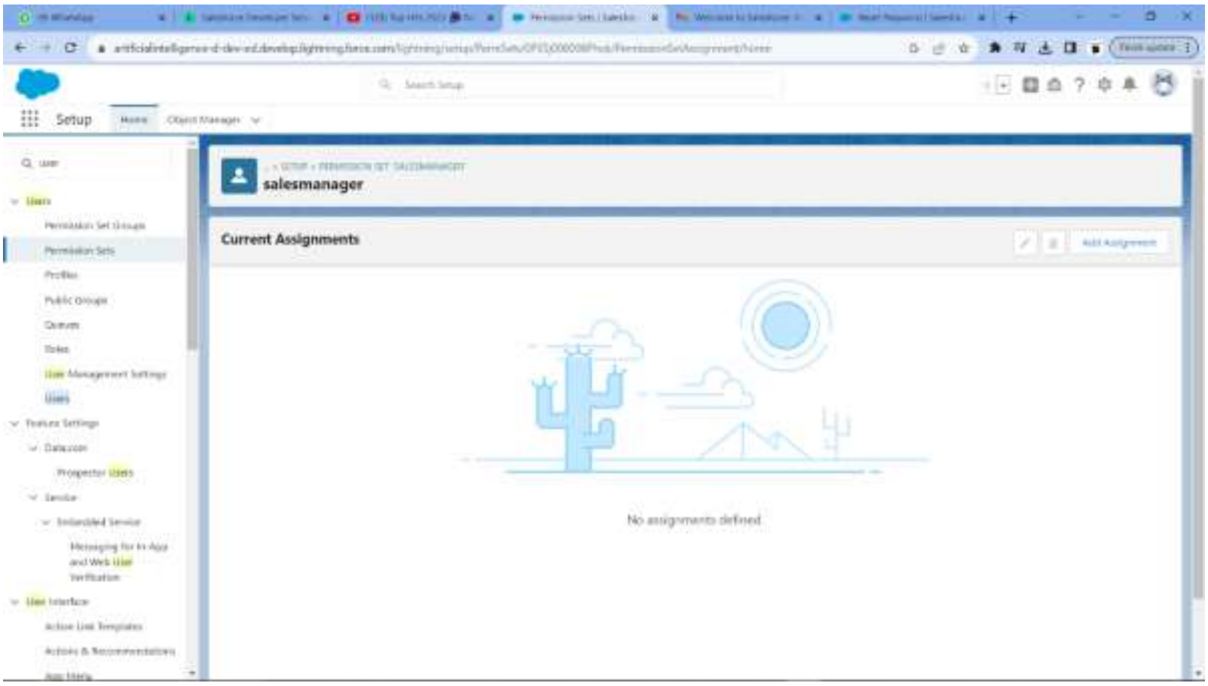

Setup
Object Manager
Permission Sets
Permission Set Groups
Permission Sets
Profiles
Public Groups
Queues
Roles
User Management Settings
Users
Feature Settings
Create
Save
Cancel
Enter permission set information
Label
API Name
Description
Session Activation Required
Select the type of users who will use this permission set
Who will use this permission set?
License
--None--

Setup
Object Manager
Permission Sets
Permission Set Groups
Permission Sets
Profiles
Public Groups
Queues
Roles
User Management Settings
Users
Feature Settings
Create
Save
Cancel
Enter permission set information
Label
salesmanager
API Name
salesmanager
Description
Session Activation Required
Select the type of users who will use this permission set
Who will use this permission set?
License
--None--

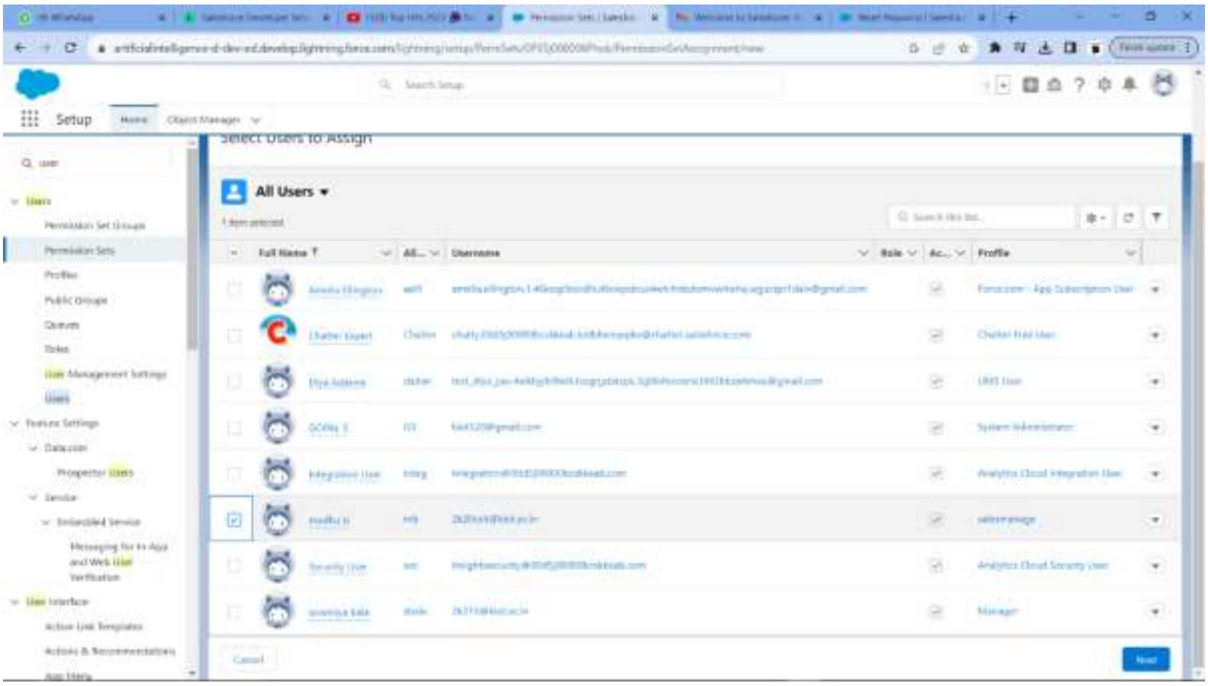

Setup
Permission Sets
salesmanager
Permission Set Overview
Apps

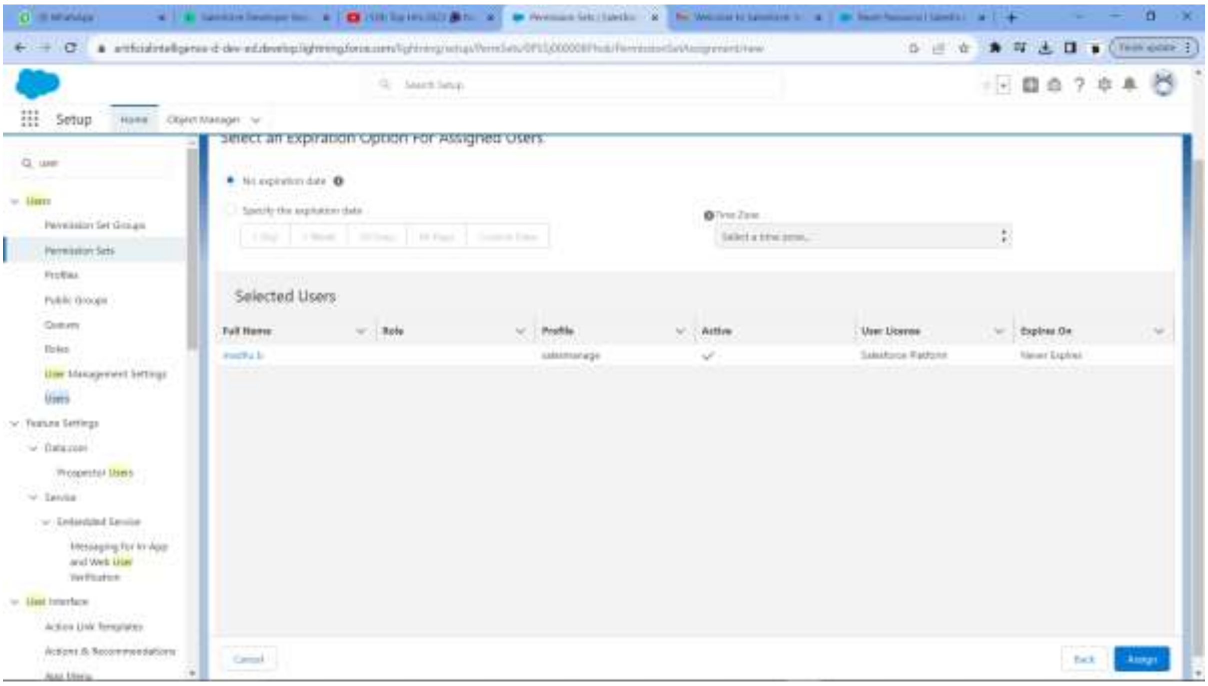

Setup
Permission Sets
salesmanager
Object Settings

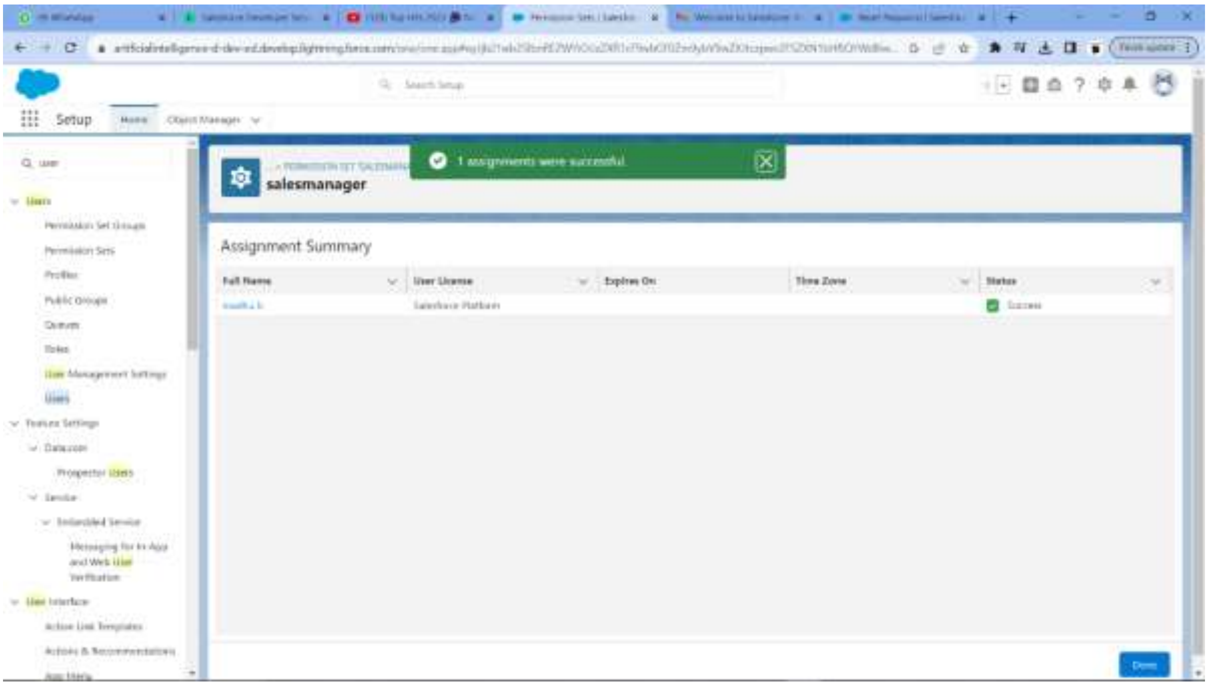

Setup
Permission Sets
salesmanager
Bank
Tab Settings
Object Permissions
Field Permissions

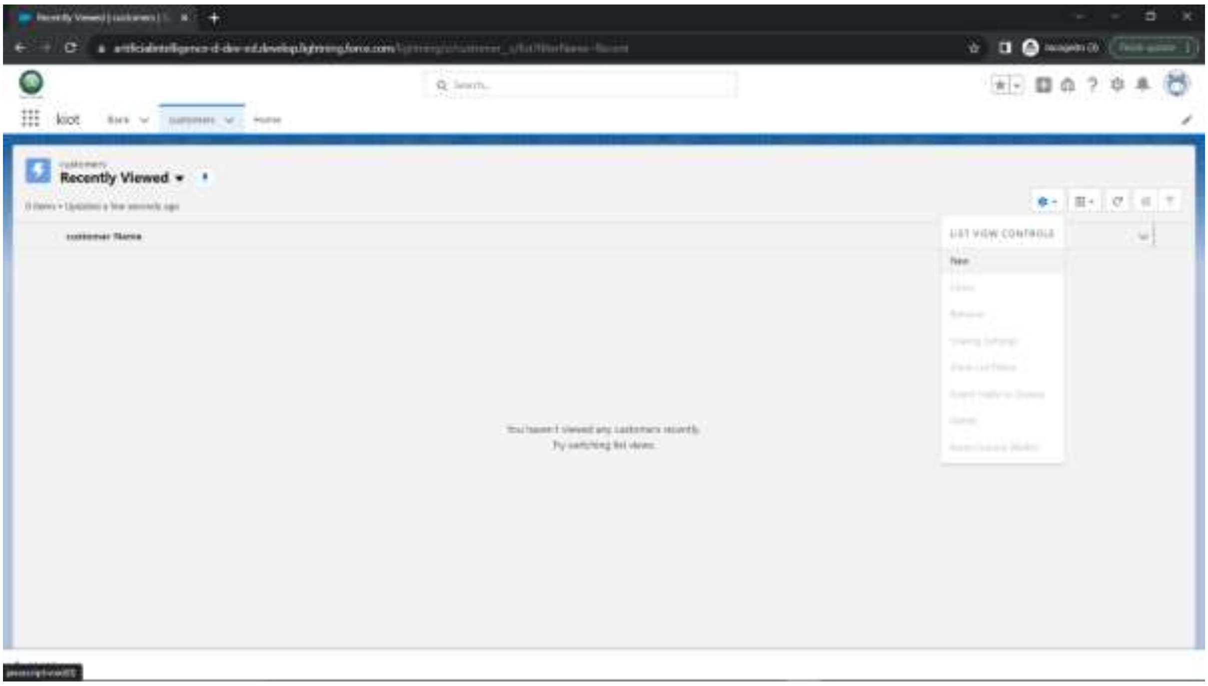

Setup
Permission Sets
salesmanager
Bank
Tab Settings
Object Permissions
Field Permissions


Setup
salesmanager
Current Assignments
No assignments defined


Setup
Select Users to Assign
All Users
Full Name
Username
Role
Profile


Setup
Select an Expiration Option For Assigned Users
Selected Users
Full Name
Role
Profile
Active
User License
Expires On


Setup
1 assignments were successful
salesmanager
Assignment Summary
Full Name
User License
Expires On
Time Zone
Status

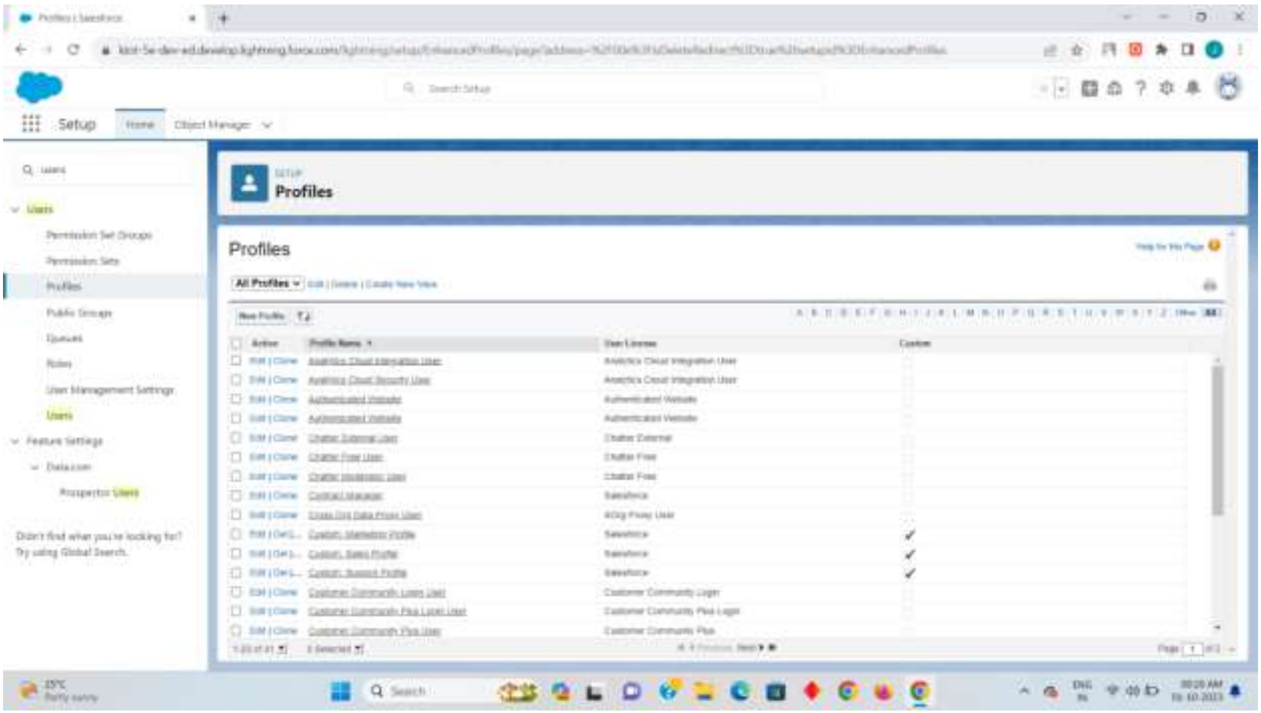

Recently Viewed
customer Name
LIST VIEW CONTROLS
New
You haven't viewed any customers recently.
Try switching list views.

3. Suppose there are 2 Users and they are having Create, Read, Edit access on Account Object with the same profile but we want to open up the access for one user to delete how will you implement the Security setting.

Solution:

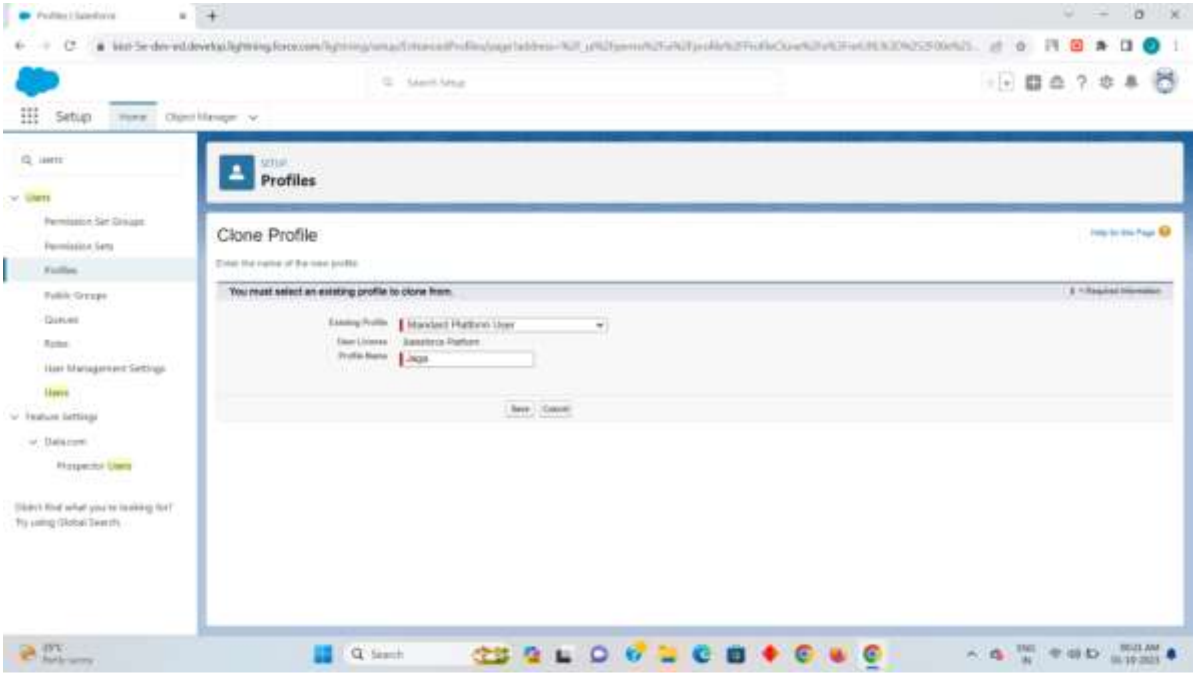
Step 1: we need create a profile for the two user which has the access to Create, Read, Edit for follow as per.

Setup-quick search[profile]



Step 2:

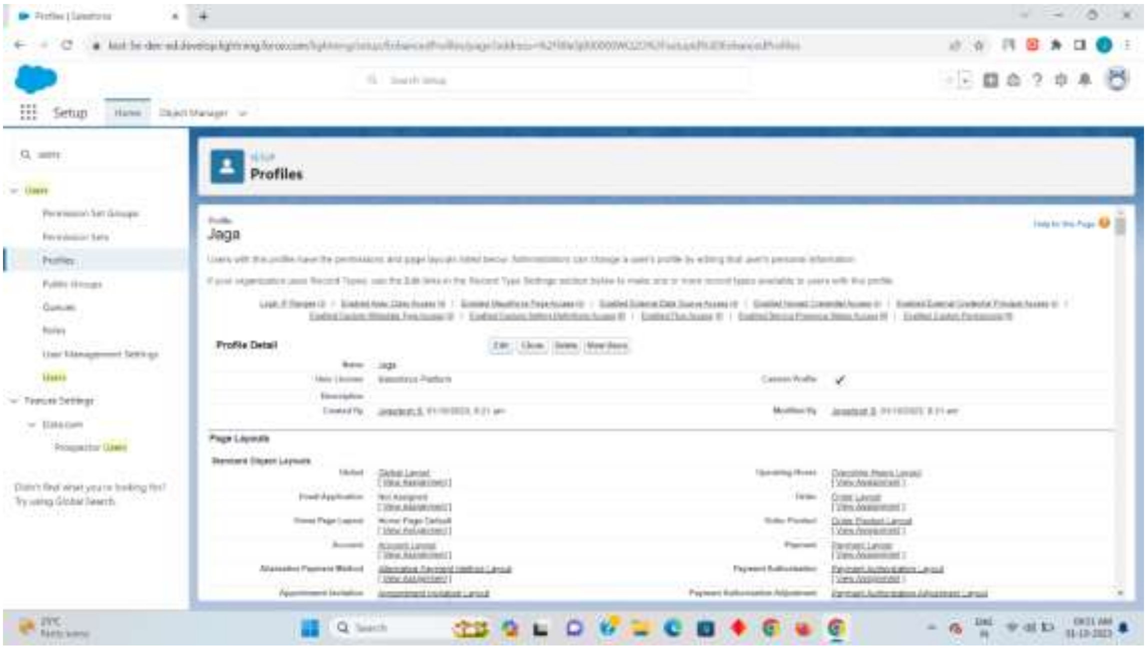
Click on the new to create a new profile along with the label and Api

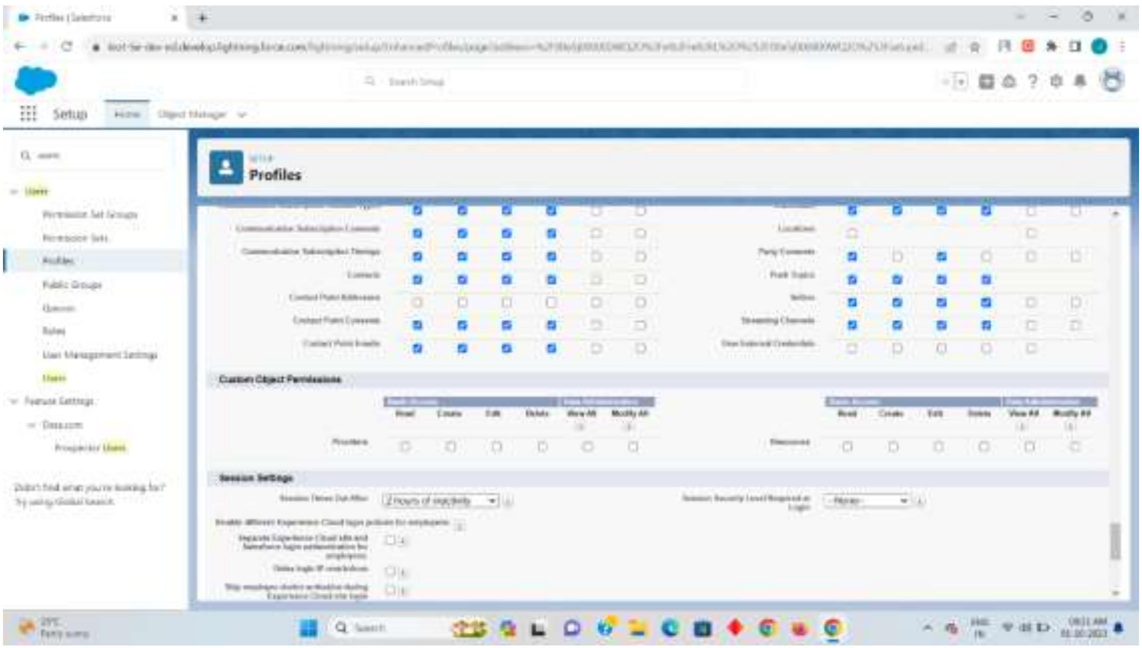


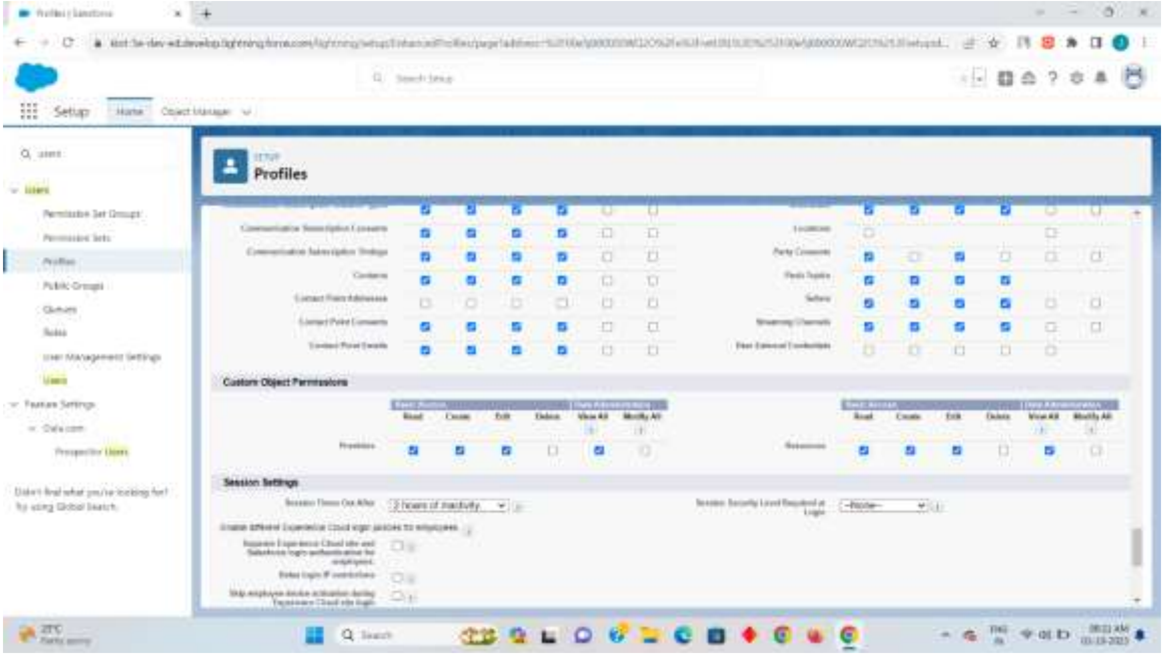
Here I had made it my profile name as Jaga and the existing profile as Standard Platform User.

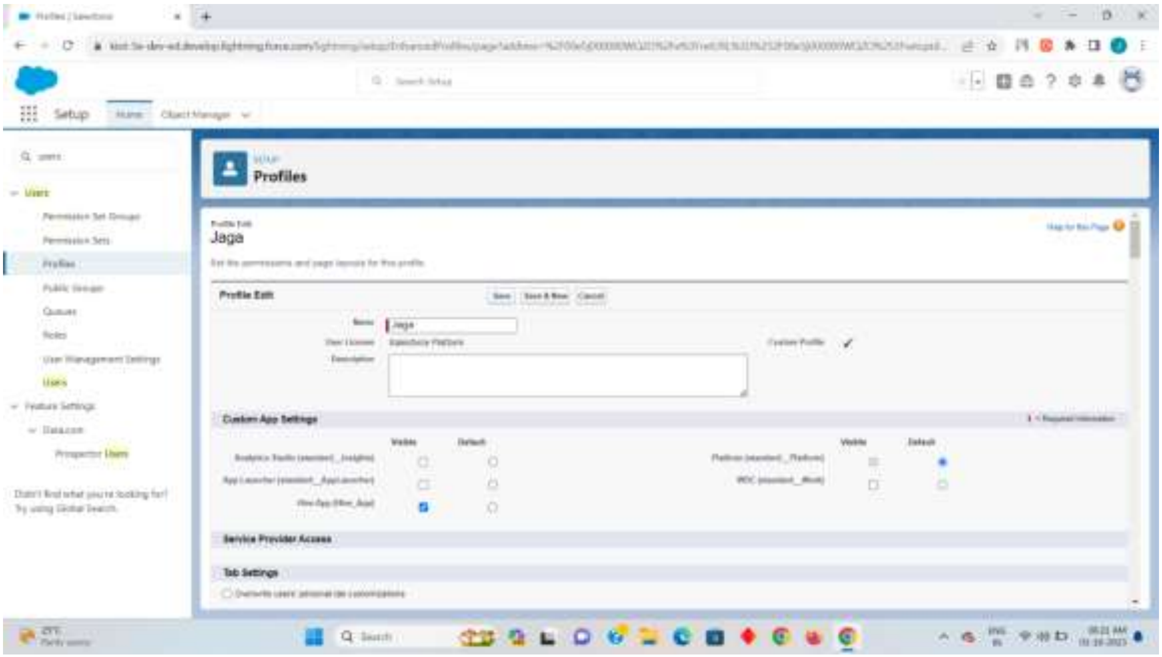
Step 3:

Now click on the edit and scroll down to custom object settings and enable the read,create,edit and view options. After that click on save.



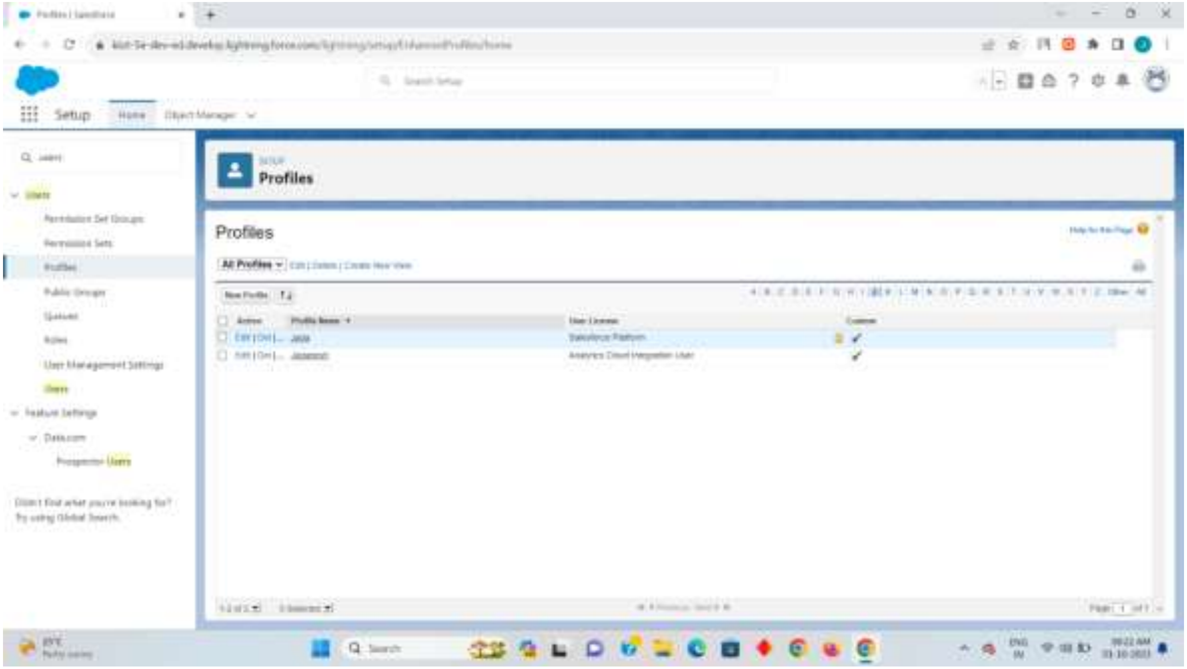



Setup
Profiles
Custom Object Permissions
Session Settings


Setup
Profiles
Jaga
Profile Edit
Custom App Settings
Service Provider Access
Tab Settings

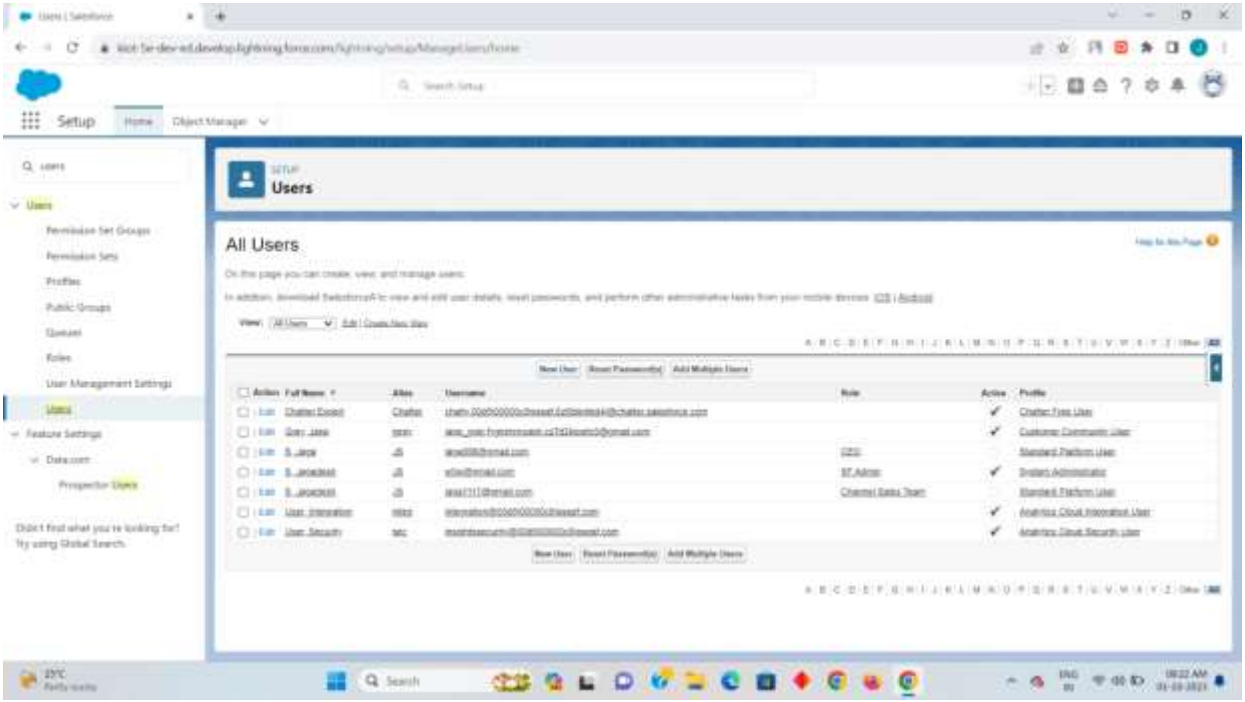
Step 4

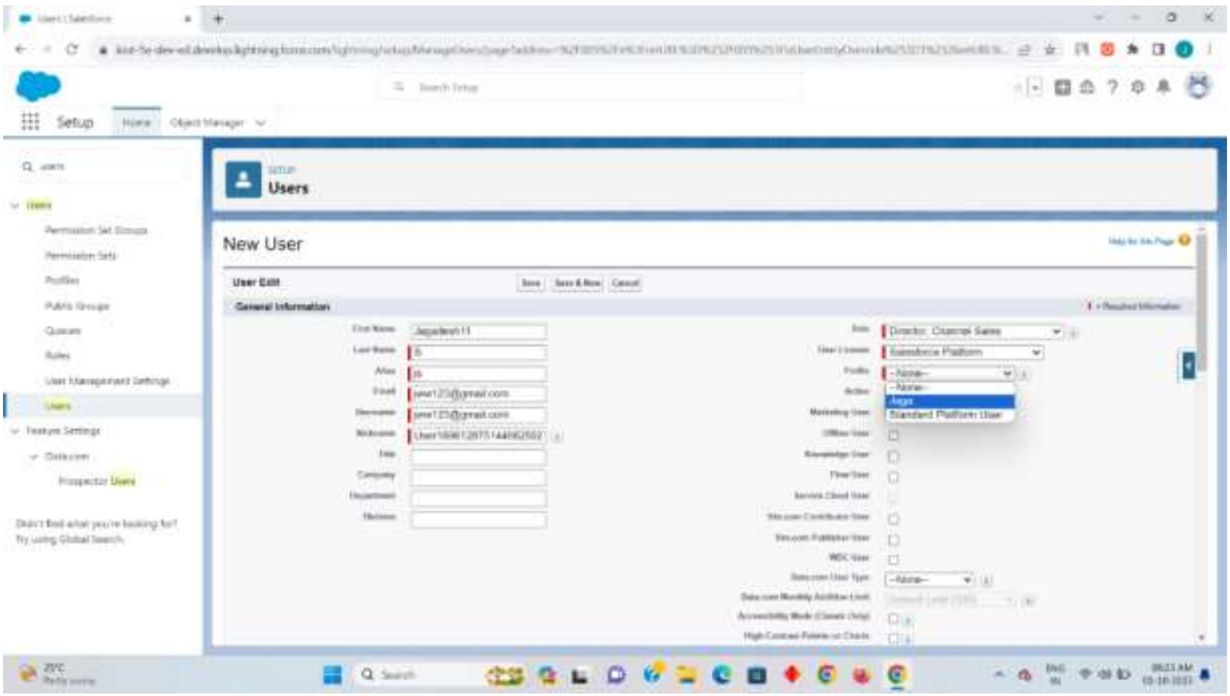
Now you can preview your created profile on the profile option here my profile name has been created with the access of read,create,edit along with view on it

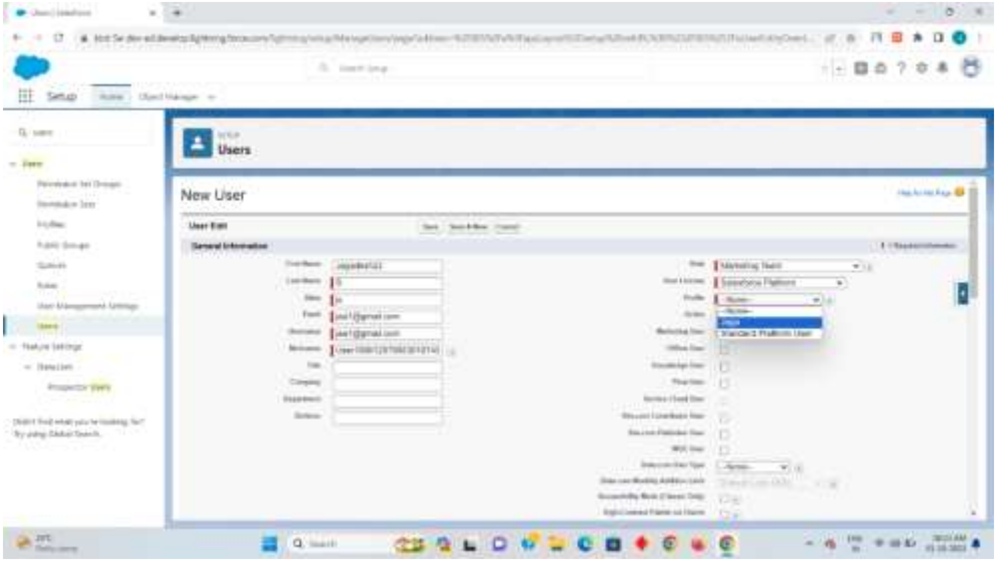


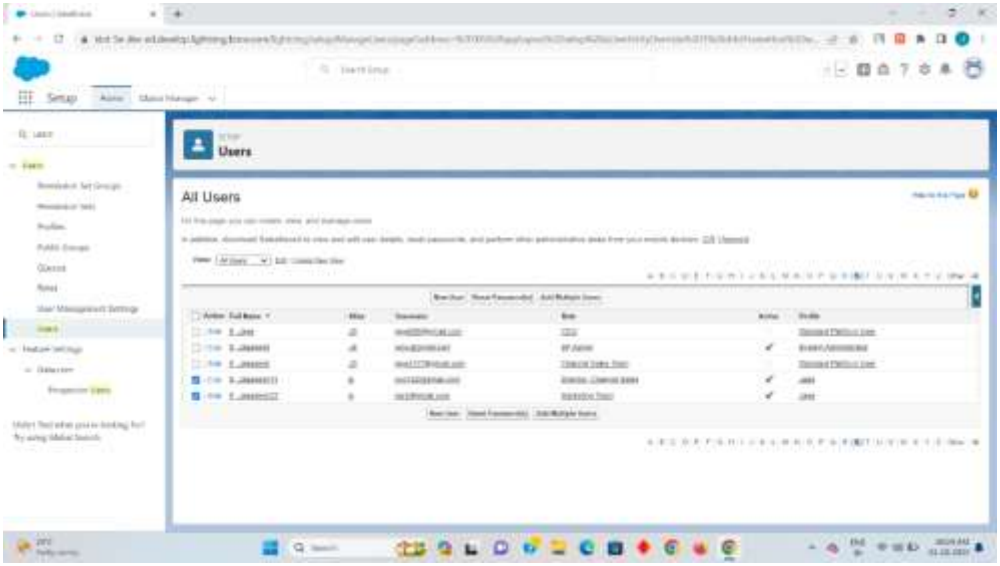
Step 5:

Now create two users by enter into the Setup-quick search[user] and then click on new user after clicking that you need to create two user along with the profile as Jaga which we have created on the step 2.once the one user has been created click on the save&new so that you can create the second user and there the user name can been created with alternate name but with the same user profile and once the two user are create click on save.







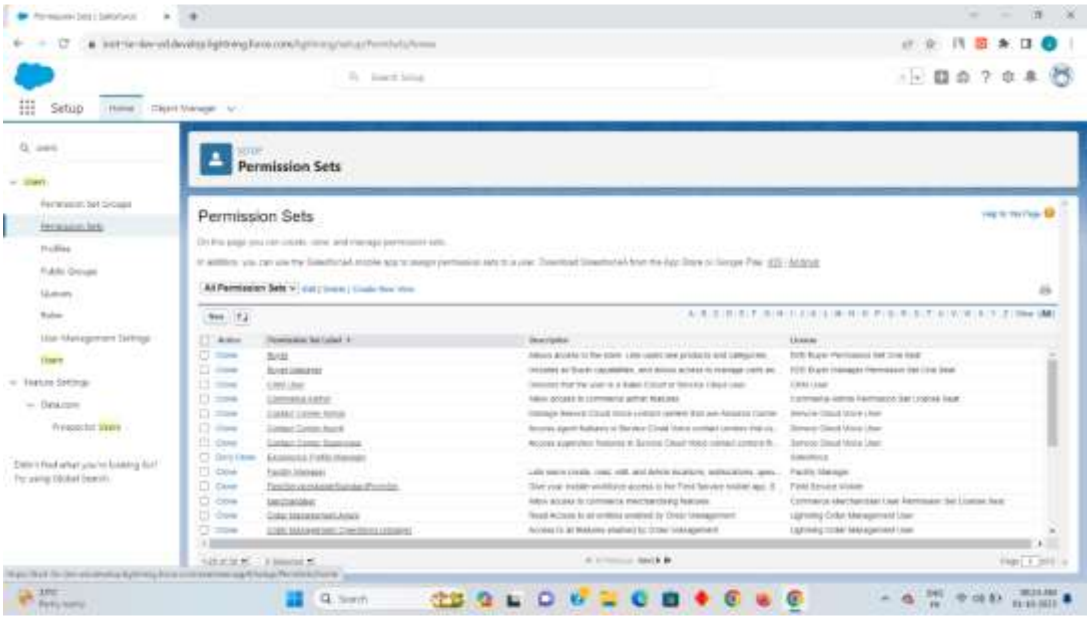


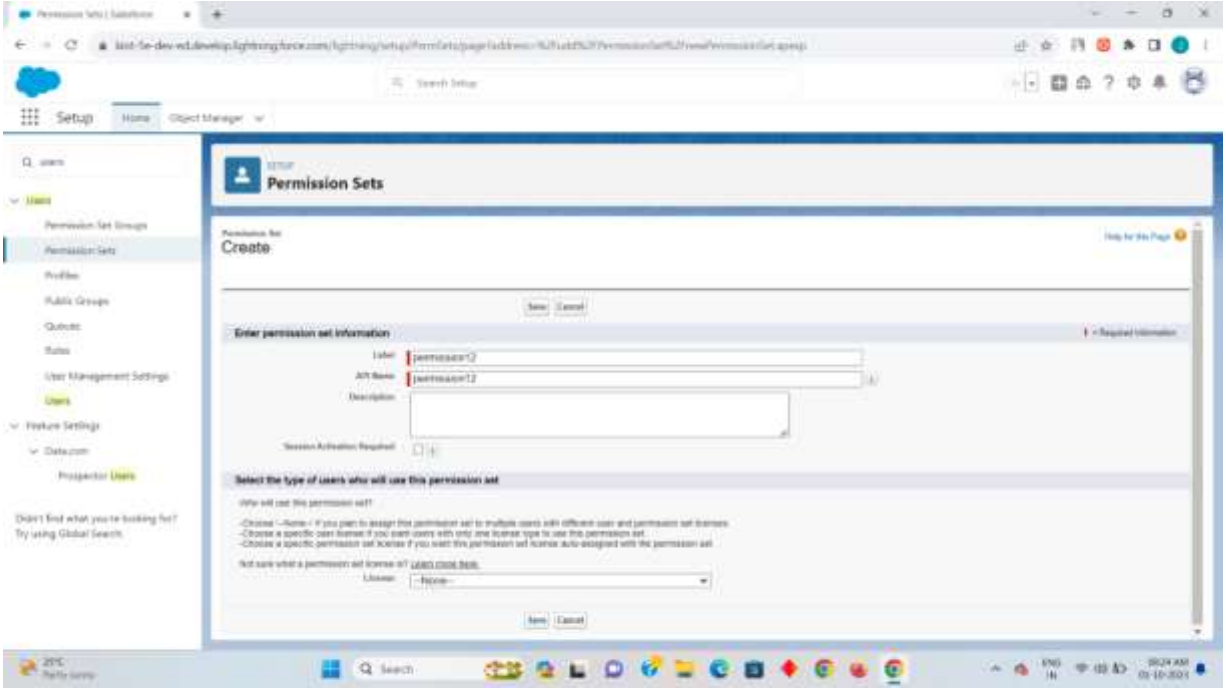
Now you can preview your two user that you have created in my side I had create the two users a Jagadesh11 and Jagadesh22 as a director channel sales with the marketing team.

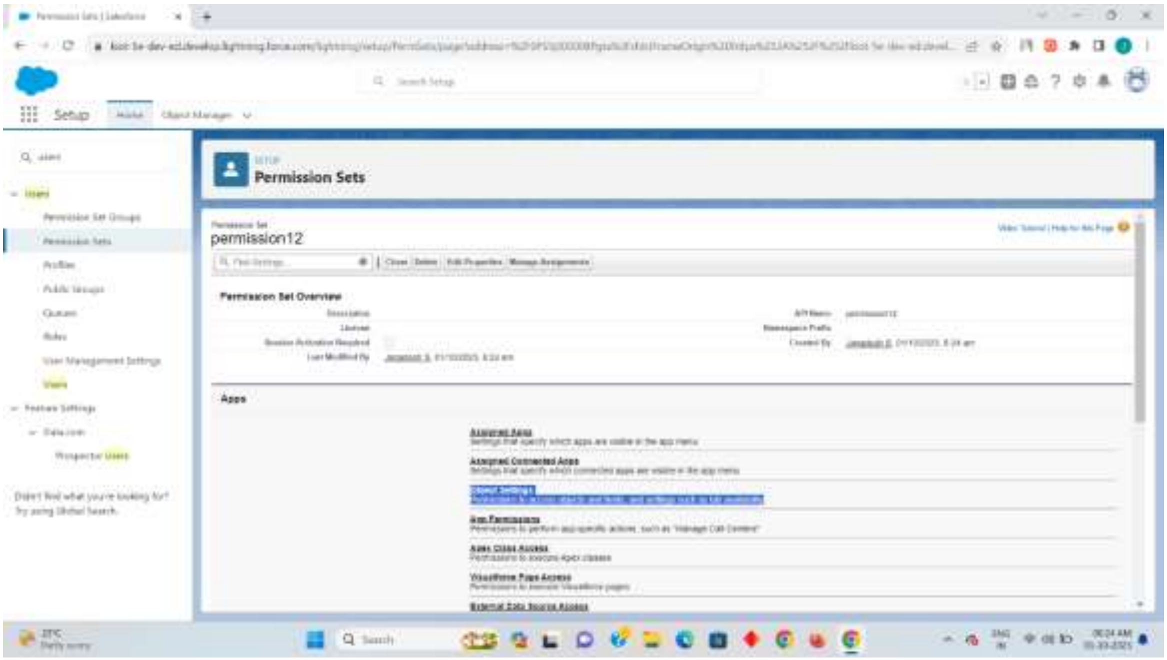
Step 6:

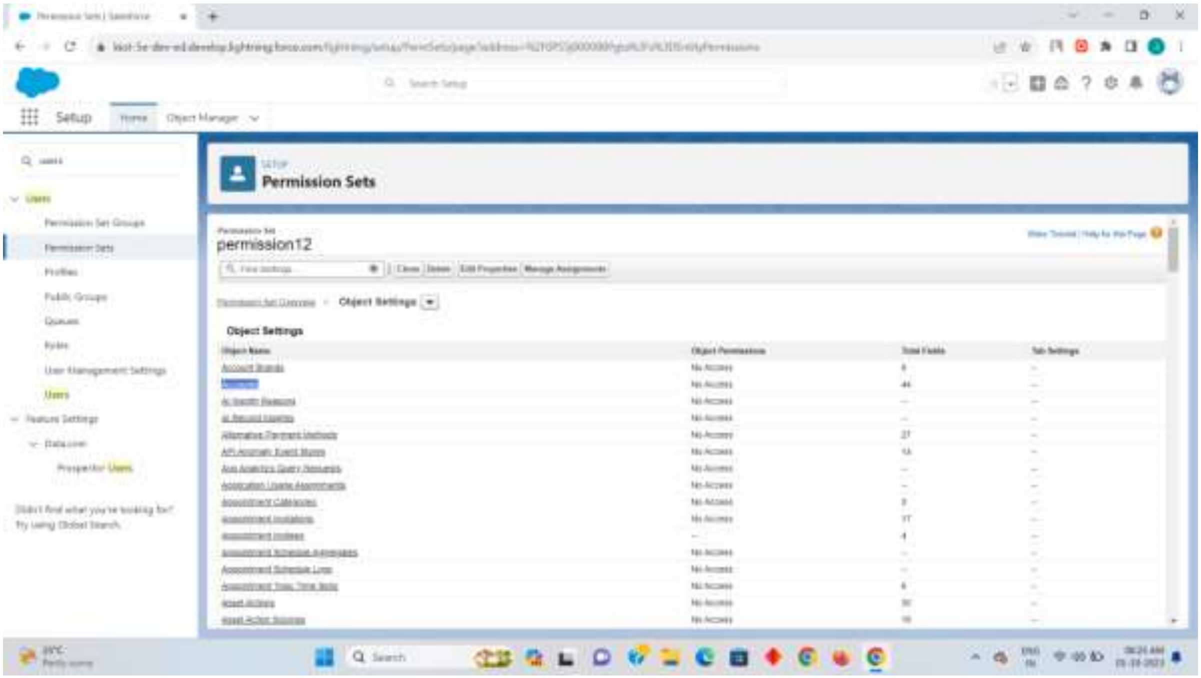
Now the two user as been created with the profle so that two user can perform the Create, Read, Edit and view on both the user. So as per the given task we need to allocate a specific access as delete on one user for that we need create a permission set for one user so it can created as

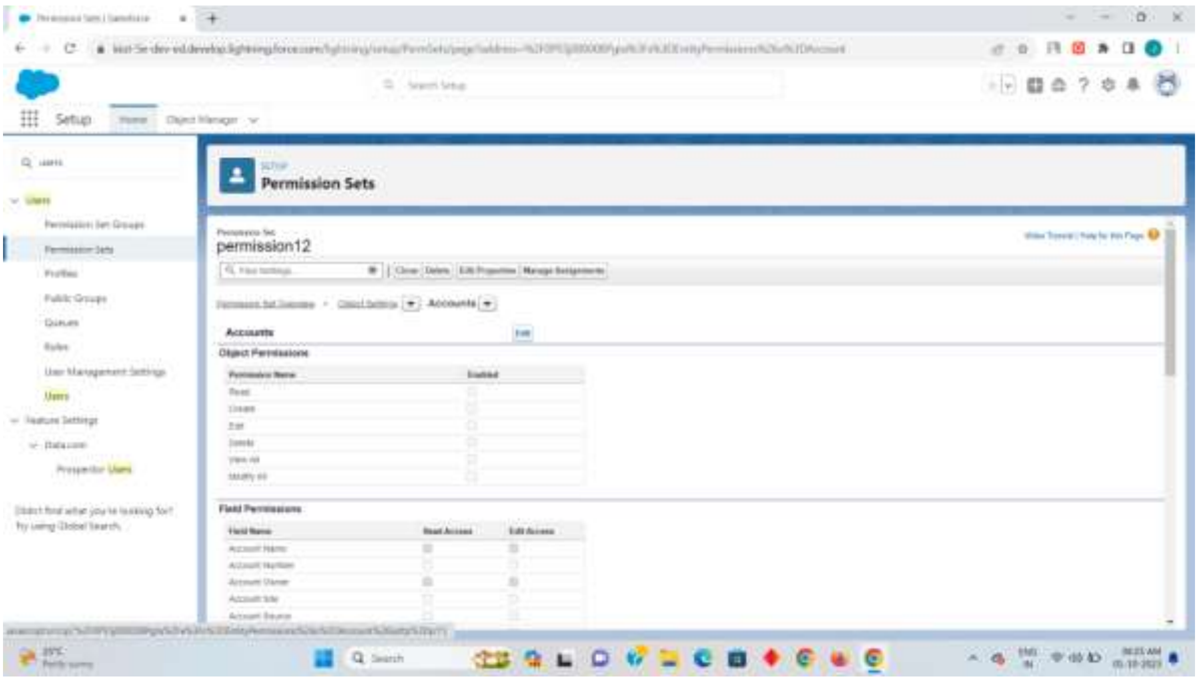
setup-quick search[permission set]-new-fill label name [auto select the API name]-click on save-object settings-accounts.




Setup
Permission Sets
Create
Enter permission set information
Select the type of users who will use this permission set

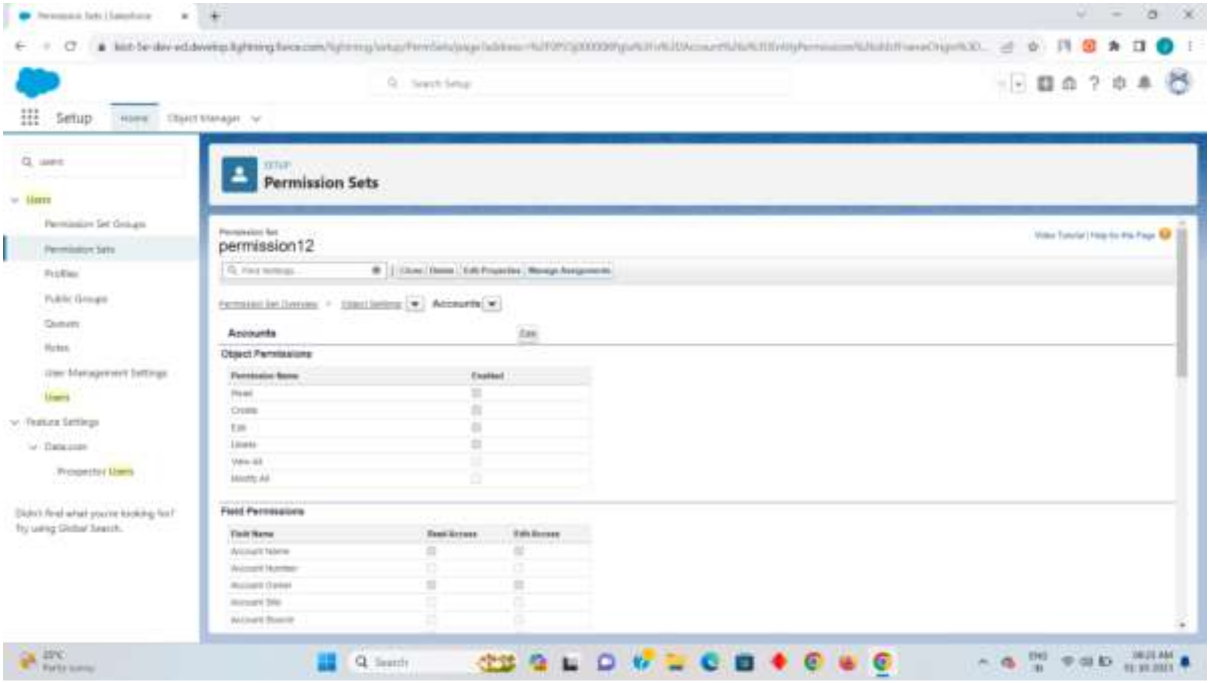

Setup
Permission Sets
permission12
Permission Set Overview
Apps

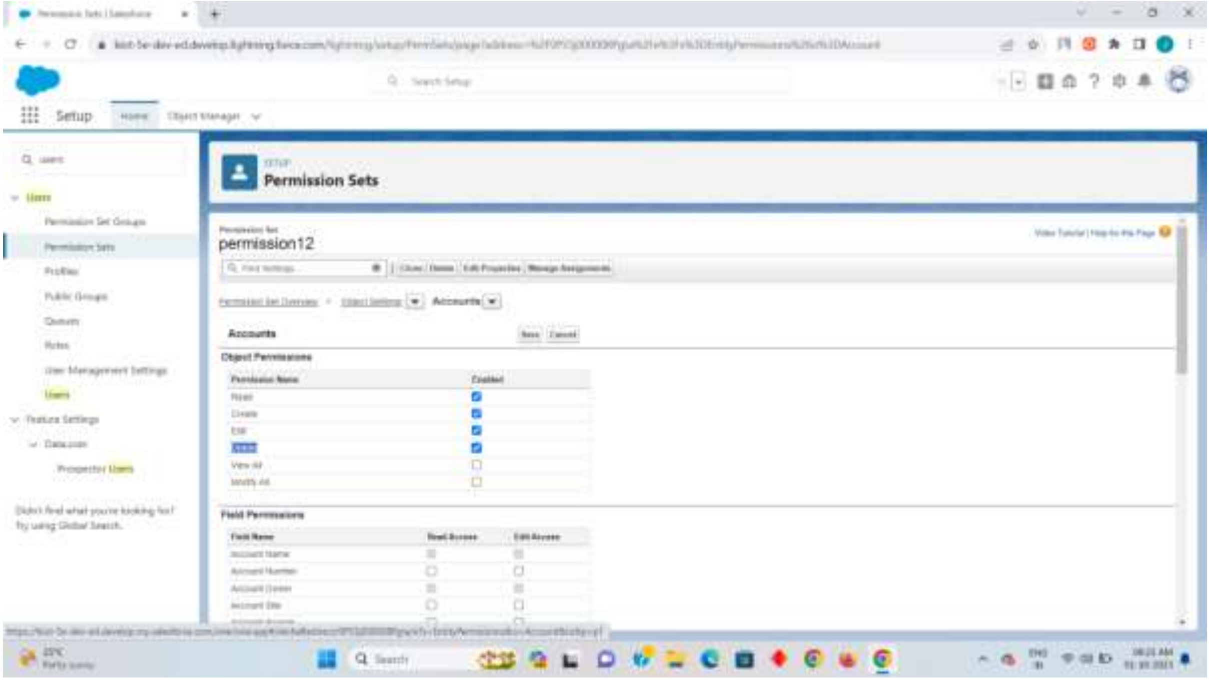

Setup
Permission Sets
permission12
Object Settings


Setup
Permission Sets
permission12
Accounts
Object Permissions
Field Permissions

Step 7:

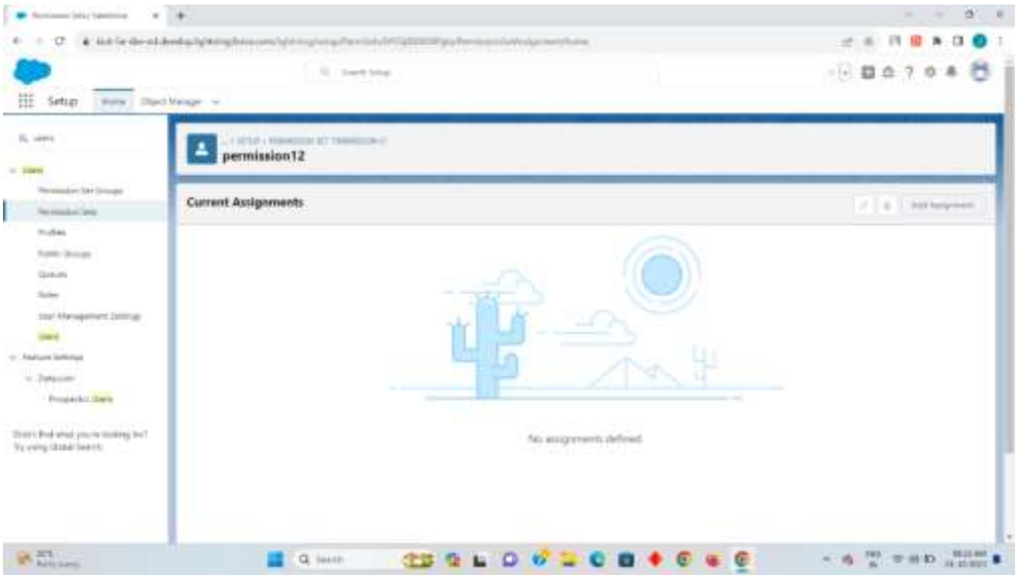
Now to give the specific delete access to the user click on edit on the Account and then enable the read,create,edit and the delete on it so that the permission set will have a specific special access on it. once it has been done click on save and then click on manage assignment.

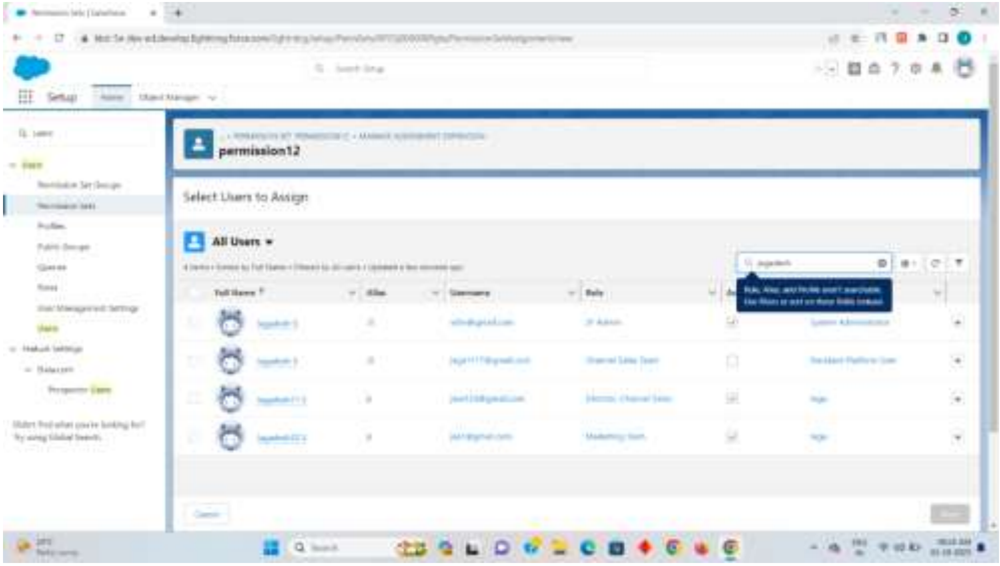


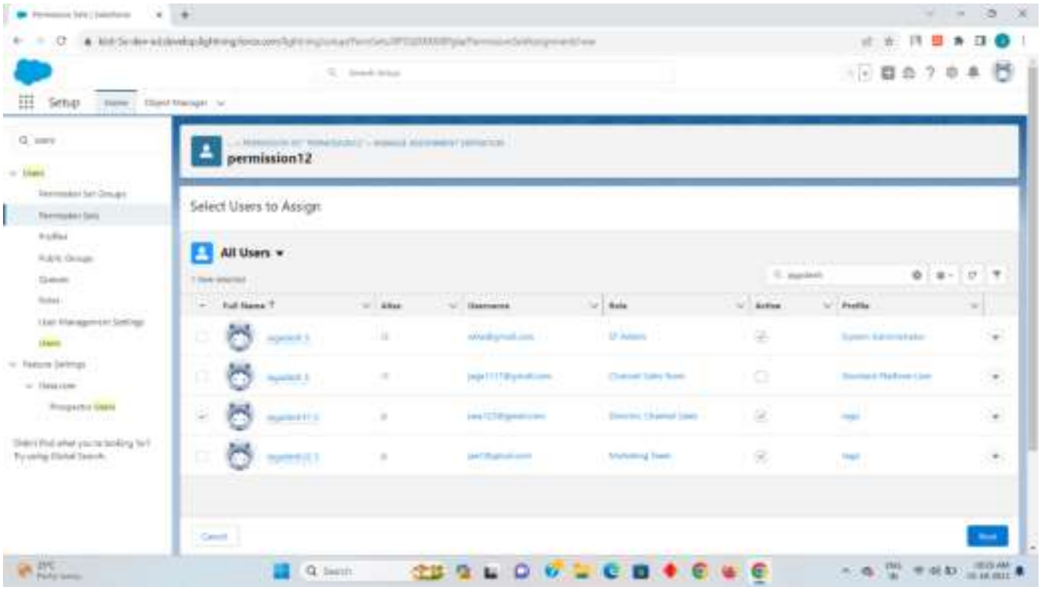


Step 8

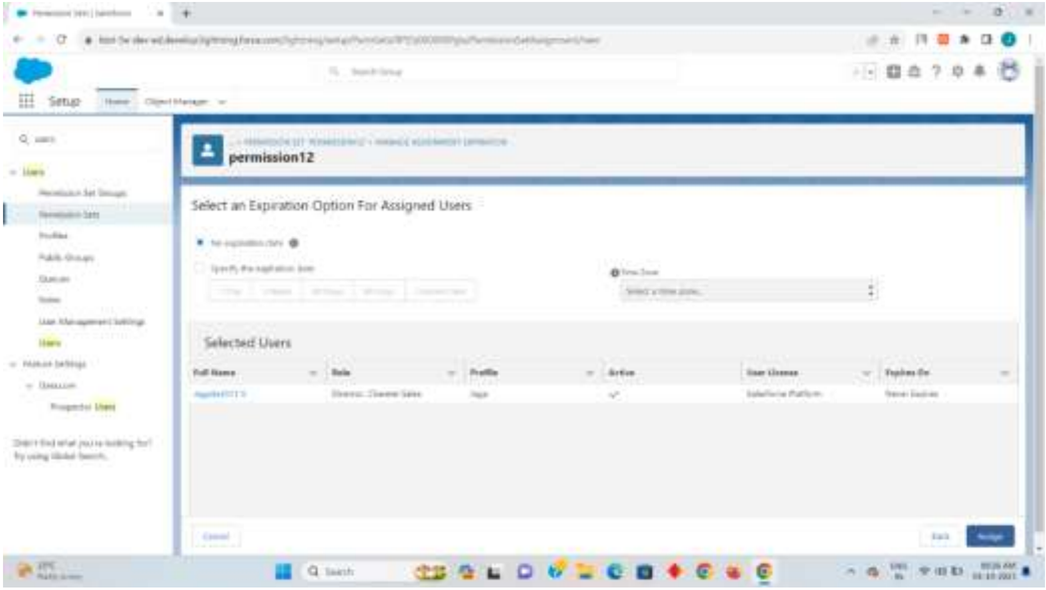
Now click on add assignment there you will find your two created users click on any one user to give a special access as delete on it and then click on assign so that the specific selected user can have a special access as delete on it.



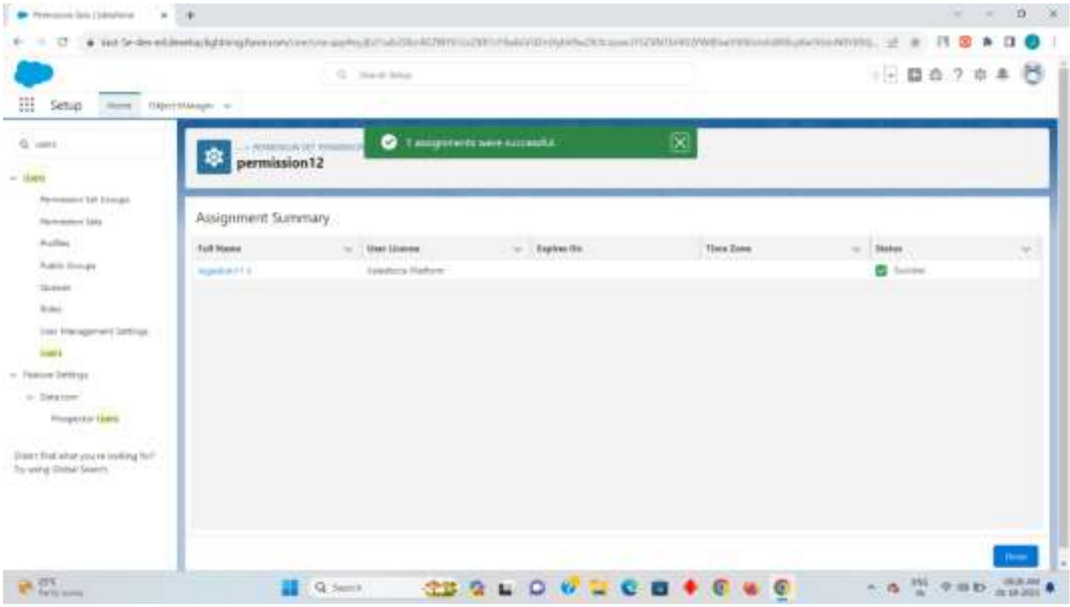




Click on next.



Now click on Assign.



Now the specific access for the Jagadesh11 user has been assigned successfully.

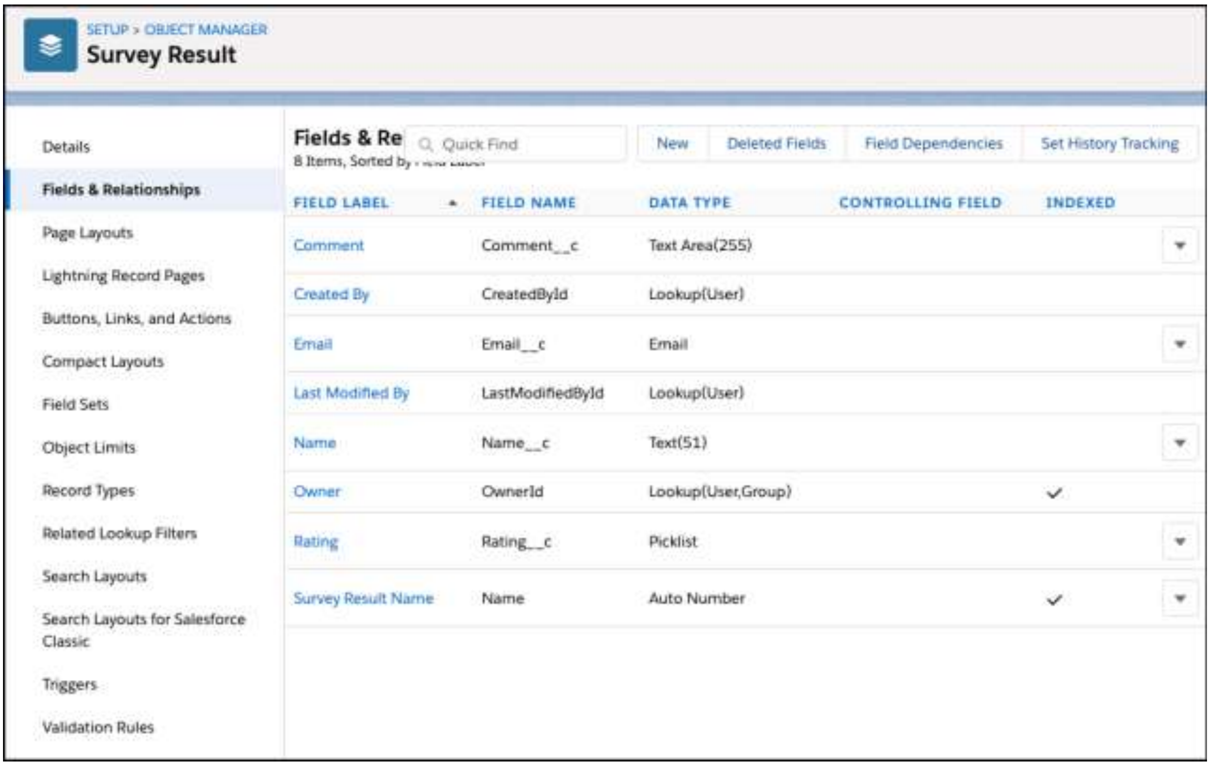
4.Create a screen flow for a basic survey to fill in the details for any form.

Solution:

Step 1: Create a Custom Object

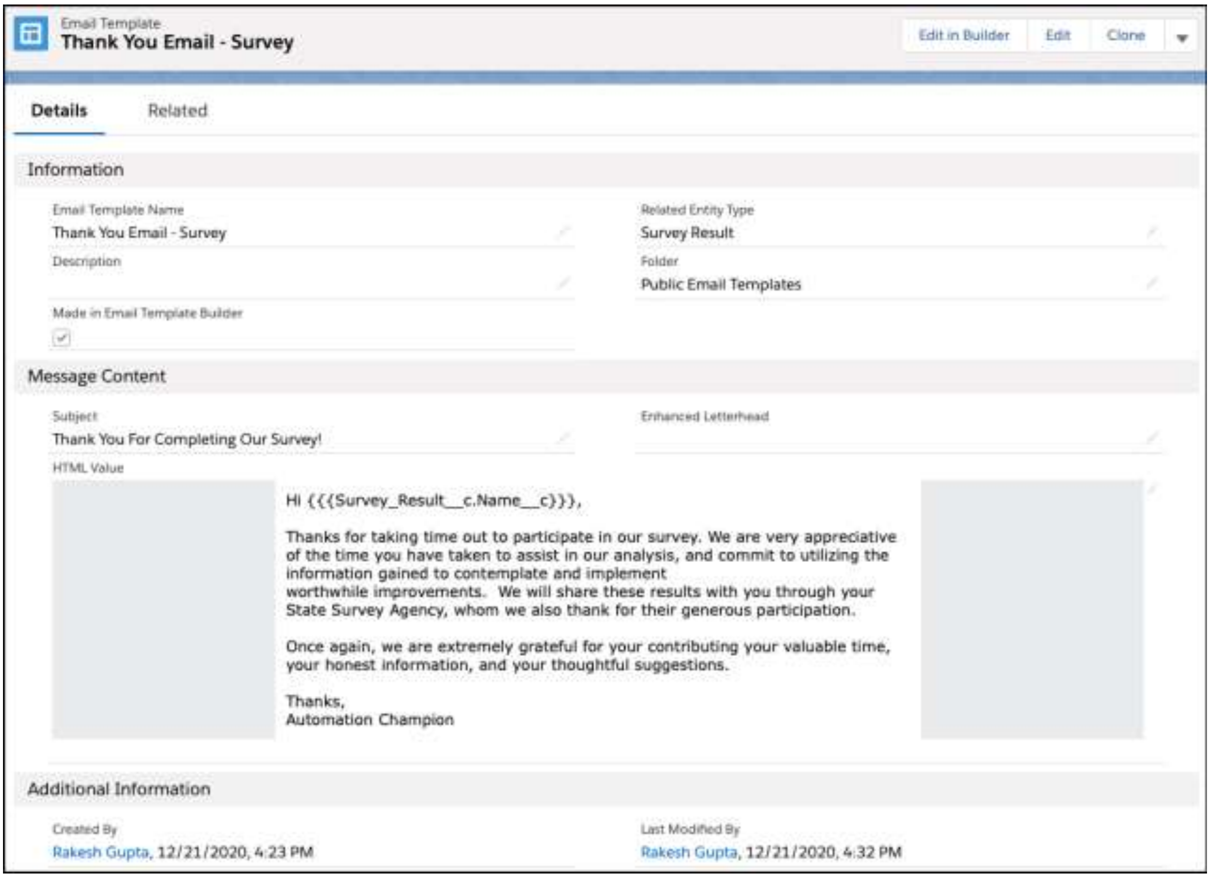
The next step is to create a custom object **Survey Result** and a few custom fields to store survey responses.

1. Click **Setup**.
2. In the Object Manager, click **Create | Custom Object**.
3. Now create a custom object **Survey Result** and fields as shown in the screenshot below:
4. Click **Save.**



Step 2: Create a Thank You For Survey Lightning Email Template

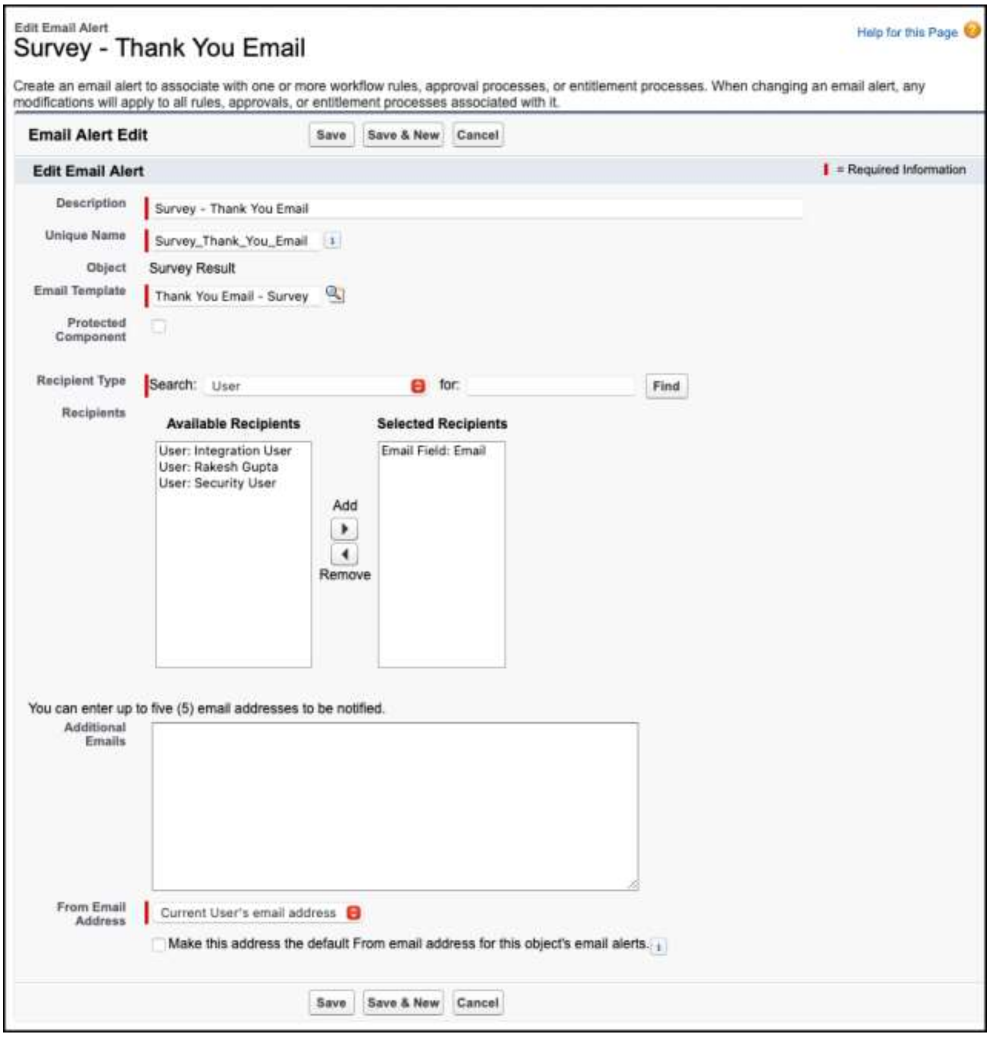
1. Click **App Launcher**.
2. In the Quick Find box, type **Email Templates**.
3. Clicks on the **New Email template** button.
4. **Name** the **Lightning Email Template** and make sure to store it in the **Public Email Templates** folder**.**
5. Create a template like the following screenshot.



Step 3: Create an Email Alert

1. Click **Setup**.
2. In the Quick Find box, type **Email Alerts**.
3. Select **Email Alerts**, click on the **New Email Alert** button.
4. **Name** the **Email Alert** and click the Tab button. The **Unique Name** will populate.
5. For **Object** select **Survey Result.**
6. For the **Email Template** chooses **Lightning Email Template Thank You Email – Survey**.

7. For **Recipient Type** select **Email Field: Email.**
8. Click **Save**.



Step 4.1: Salesforce Flow — Create a Screen that Allow Users to Fill Survey

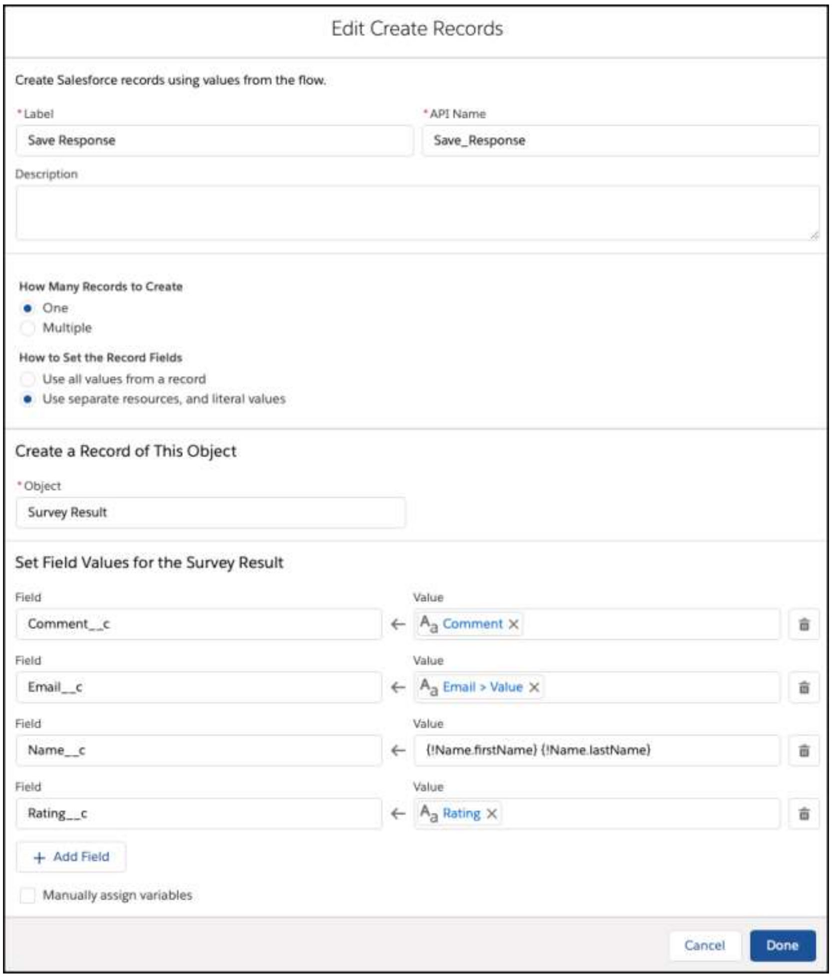
1. Click **Setup**.
2. In the Quick Find box, type **Flows**.
3. Select **Flows** then click on the **New Flow**.
4. Select the **Screen Flow** option and click on **Next** and configure the flow as follows:

    1. **How do you want to start building**: **Freeform**
5. We will use the **Screen** element to capture a **Survey response** form. Drag and drop a **Screen** element onto the canvas.

Step 4.2: Salesforce Flow — Add a Record Creates Element to Save Survey Response

1. Drag-and-drop the **Create Records** element onto the Flow designer.
2. Enter a name in the **Label** (**Save Response**) field; the **API Name** will auto-populate.
3. For **How Many Records to Create** – select **One.**
4. For **How to Set the Record Fields** – select **Use separate resources, and literal values.**
5. Select the **Survey_Result__c** object from the dropdown list.
6. **Set Field Values for the Survey Result**
    1. Row 1:
        1. **Field: Comment__c**
        2. **Value: {!Comment}**
    2. Click **Add Row**
    3. Row 2:
        1. **Field: Email__c**

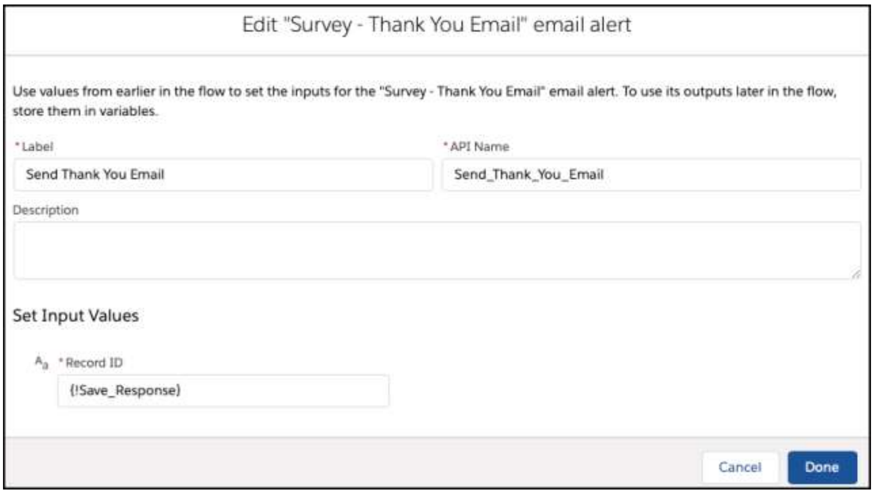
        2. **Value: {!Email.value}**
    4. Click **Add Row**
    5. Row 3:
        1. **Field: Name__c**
        2. **Value: {!Name.firstName} {!Name.lastName}**
    6. Click **Add Row**
    7. Row 3:
        1. **Field: Rating__c**
        2. **Value: {!Rating}**
7. Click **Done**.



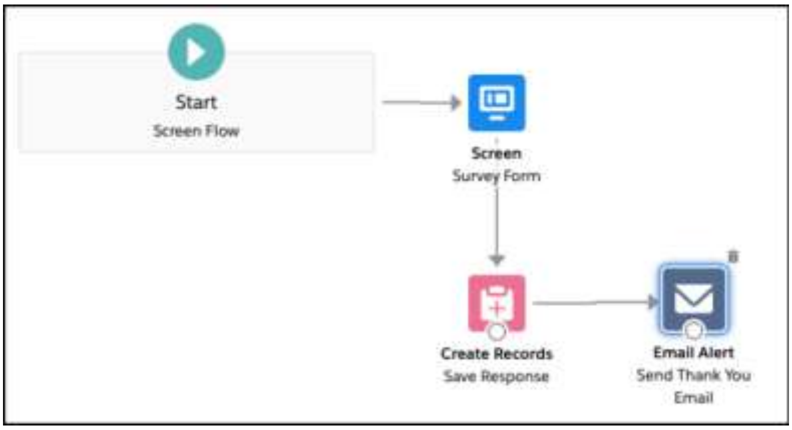
Step 4.3: Salesforce Flow — Call an Acton — Email Alert to Send Out Thank You Email

The next step is to call the **Survey – Thank You Email** email alert from flow so that when flow fires it triggers the thank you email to survey participants.

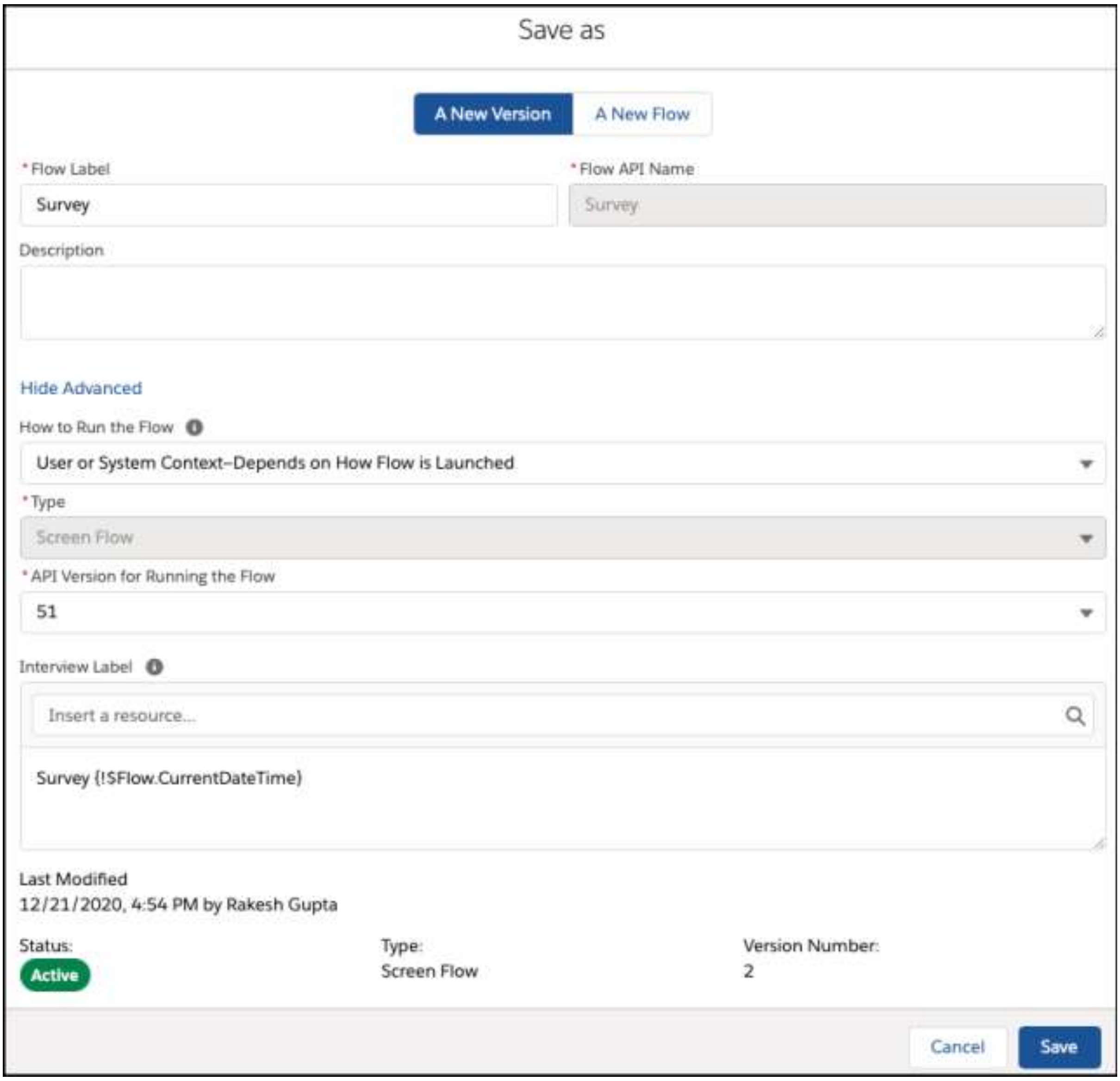
1. Under **Toolbox**, select **Element**.
2. Drag-and-drop **Action** element onto the Flow designer.
3. In the **Action** box, type **Survey – Thank You Email**.
4. Clicks on the **Survey – Thank You Email** email alert.
5. Click **Done**.



In the end, Sergio's **Flow** will look like the following screenshot:



1. Click **Save**.
2. Enter **Flow Label** the **API Name** will auto-populate.
3. Click **Show Advanced**.
4. **How to Run the Flow**: **User or System Context—Depends on How Flow is Launched**
5. **Type**: **Screen Flow**
6. **API Version for Running the Flow**: **51**
7. **Interview Label**: **Survey {!$Flow.CurrentDateTime}**
8. Click **Save**.

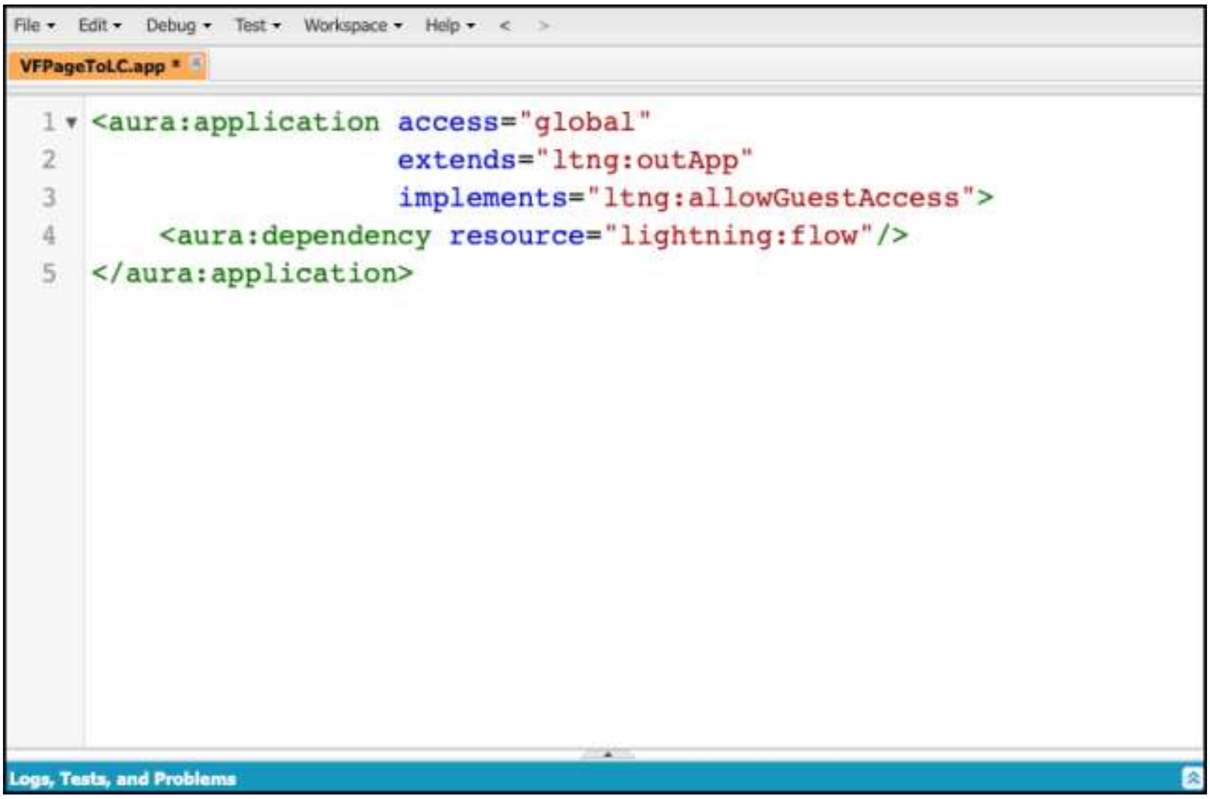


Step 5: Create a Lightning Application to Render Lightning Runtime for Flow in a Visualforce Page

Now we will create a Lightning Application that declares a dependency on the **lightning:flow** component.

1. Click **Setup | Developer Console**

2. Navigate to **File | New | Lightning Application**
3. Enter a **Name** (**VFPageToLC**) field, make sure to select the **Lightning Out Dependency App** checkbox.
4. Click **Submit.**
5. Copy code from **GitHub** and paste it into your Lightning Application.
6. **Save** your code.

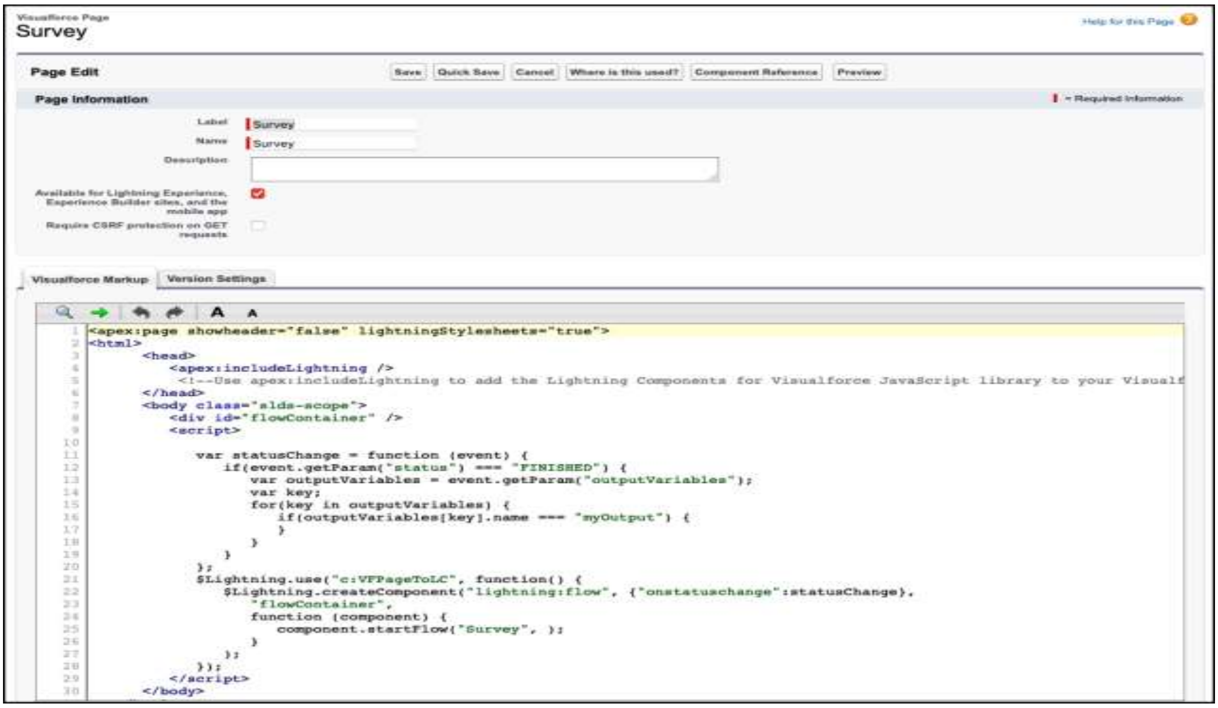


Step 6: Create a Visualforce Page and Embed Your Flow Into It

Now we will create a Lightning Application that declares a dependency on the **lightning:flow** component.

Add the Lightning Components for Visualforce JavaScript library to your Visualforce page using the **<apex:includeLightning/>** component. In the Visualforce page, reference the dependency app. Then write a JavaScript function that creates the component on the page using **$Lightning.createComponent()**

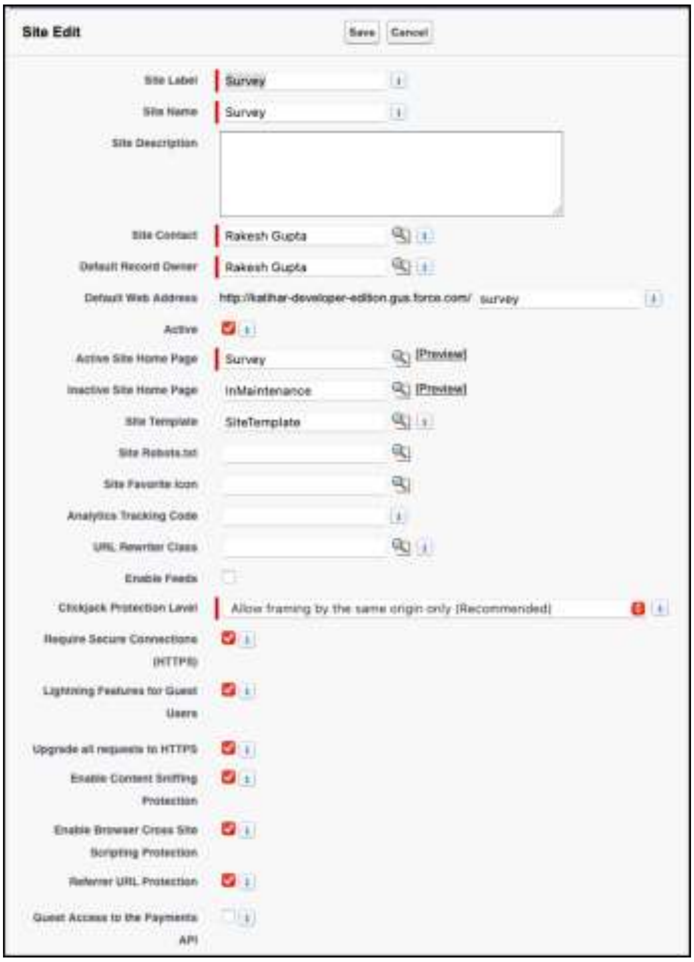
1. Click **Setup**.
2. In the Quick Find box, type **Visualforce Pages**.
3. Clicks on the **New** button.
4. Copy code from **GitHub** and paste it into your visualforce page
5. Click **Save.**



Step 7: Create a Force.com Site to Open Your Flow for Unauthenticated Access

Now we will create a site to open the flow for unauthenticated access.

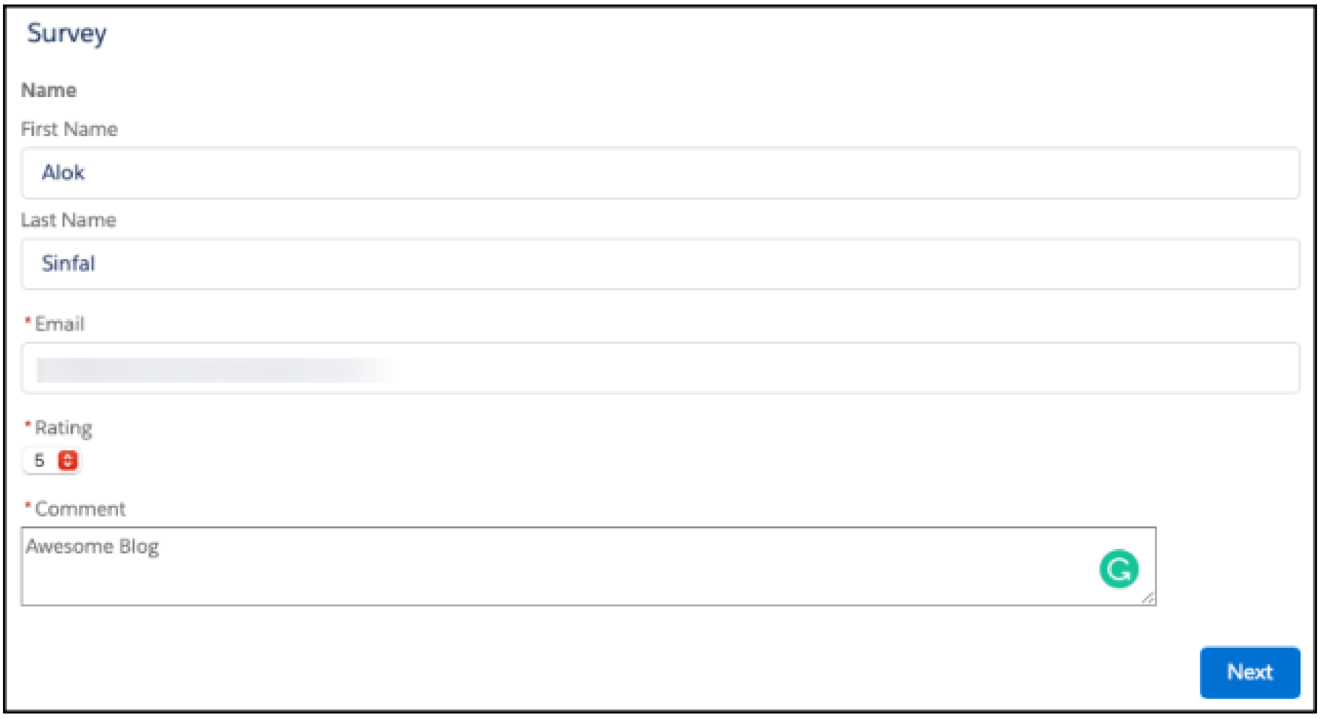
1. Click **Setup**.
2. In the Quick Find box, type **Sites**.
3. Clicks on the **New** button.
4. Fill the details as per the screenshot below:
5. Click **Save.**



Under site, **Public Access Settings** make sure that guest users have **Create** access on **Survey Result** object and **Edit** on the **fields**.

Proof of Concept

Now onward, if someone opens the site url and fills the form:



After successful submission, he/she will receive an email.