...THE FOOD BANK BRIDGE...

(Meals Across Miles)

PROJECT TITLE: THE FOOD BANK BRIDGE

CATEGORY: SALESFORCE

SKILLS REQUIRED: SALESFORCE DEVELOPER

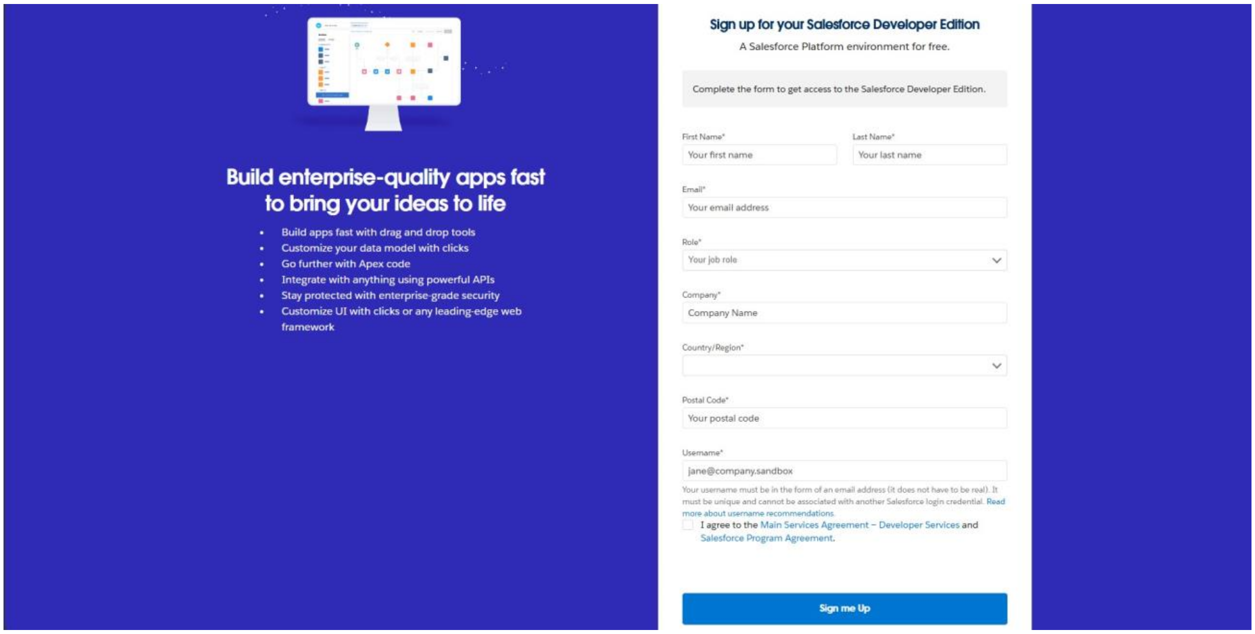
1.PROJECT OVERVIEW:

Objectives and goals-This project aims to develop a salesforce based crm application designed to manage and streamline the distribution of food to underserved communities.

Creating Developer Account

Creating a developer org in salesforce.

1. Go tohttps://developer.salesforce.com/signup



2. On the sign up form, enter the following details :

   First name & Last name

   Email

   Role : Developer

   Company : College or Company Name

   County : India

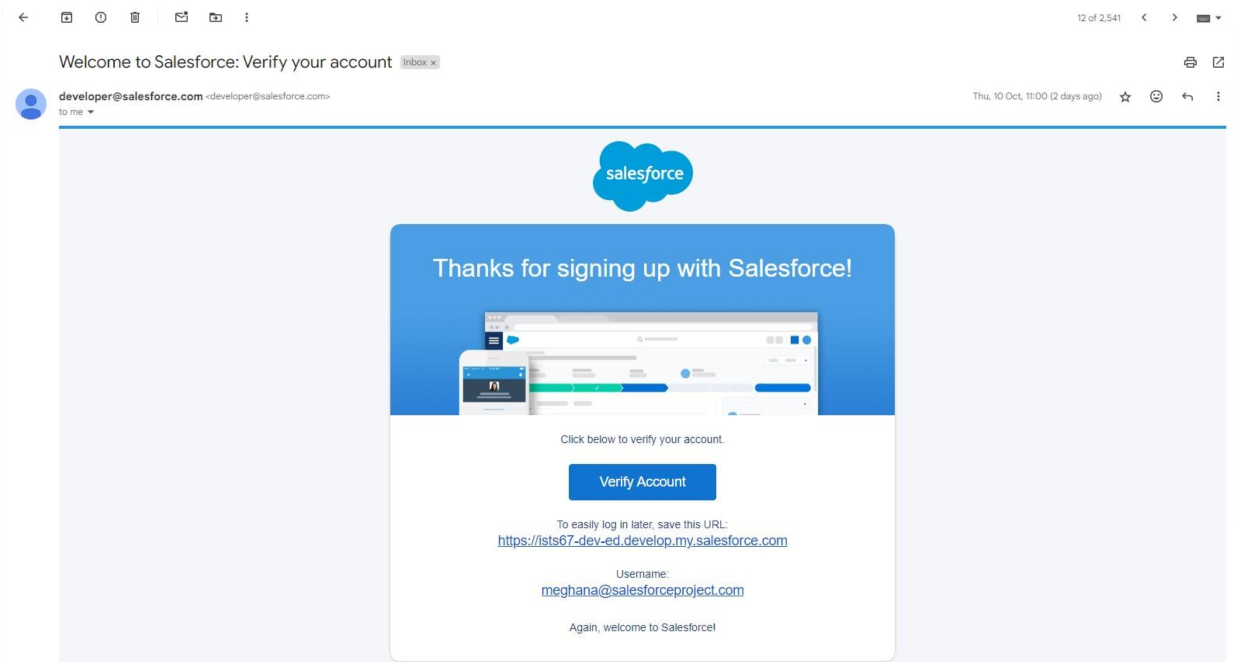
   Postal Code : pin code

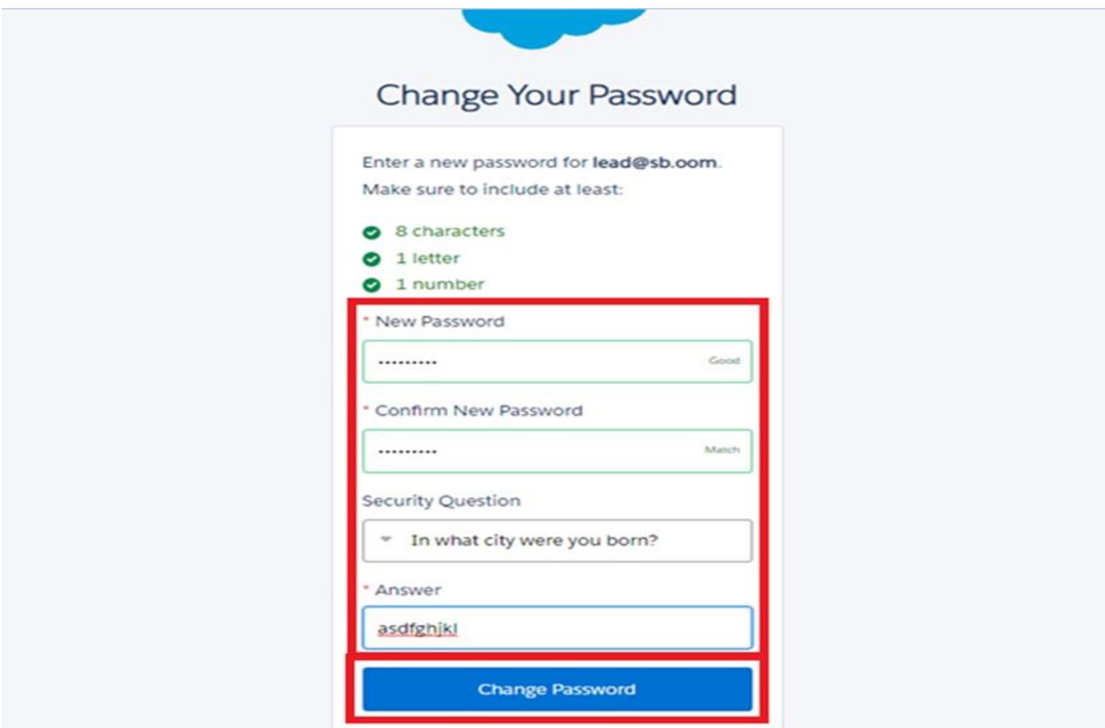
   Username : username@organization.com

3.Click on sign me up after filling these.

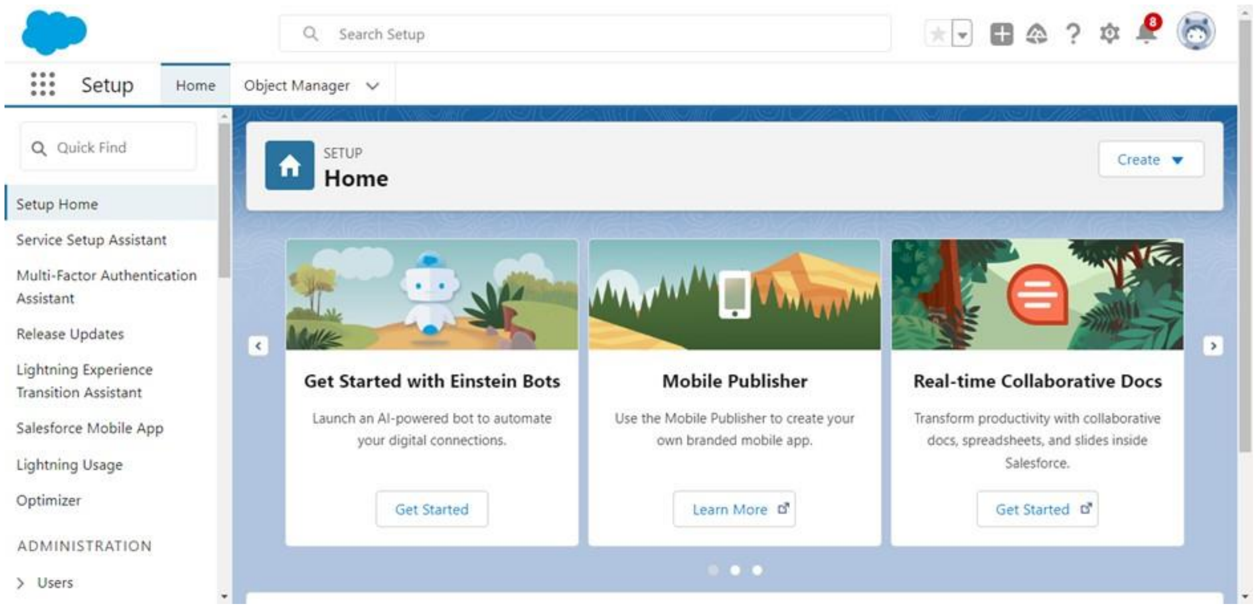
Account Activation:

1. Go to the inbox of the email that you used while signing up. Click on the verify account to activate your account. The email may take 5-10mins.





1. Click on Verify Account
2. Give a password and answer a security question and click on change password.
3. Then you will redirect to your salesforce setup page.



Creation of objects:

CreatetheFoodDonationObject:*This object tracks the food items donated to charity organizations*

Log in to Salesforce.

Navigate to Setup (gear icon).

Search for "Objects" in the Quick Find box.

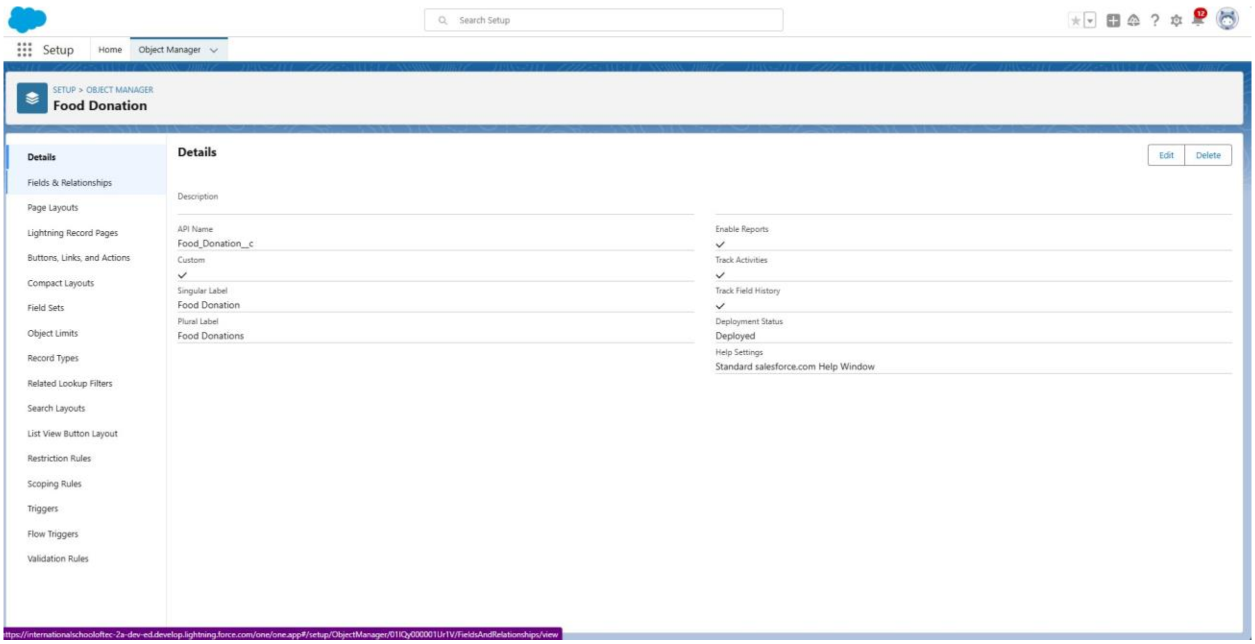
Click "Objects" under "Build".

Click "New Custom Object".

Enter "Food Donation" as the label.

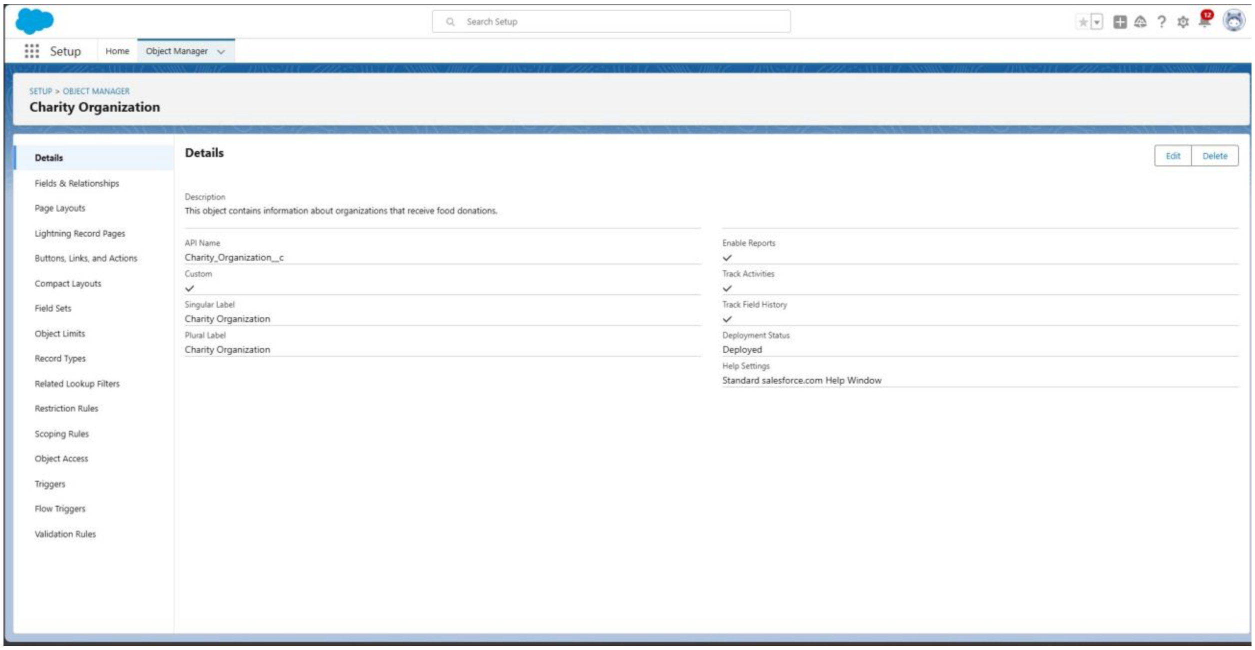
Enter "Food_Donation" as the plural label.

Click "Save".



Create the CharityOrganizationObject:Thisobjectcontainsinformation aboutorganizationsthatreceivefooddonations.

1. Log in to Salesforce.
2. Navigate to Setup (gear icon).
3. Search for "Objects" in the Quick Find box.
4. Click "Objects" under "Build".
5. Click "New Custom Object".
6. Enter "Charity Organization" as the label.
7. Enter "Charity_Organization" as the plural label.
8. Click "Save".



CreateVolunteerObject:Thisobjecttracksindividualswhohelpmanagethe donations.

Navigate to Setup (gear icon).

Search for "Objects" in the Quick Find box.

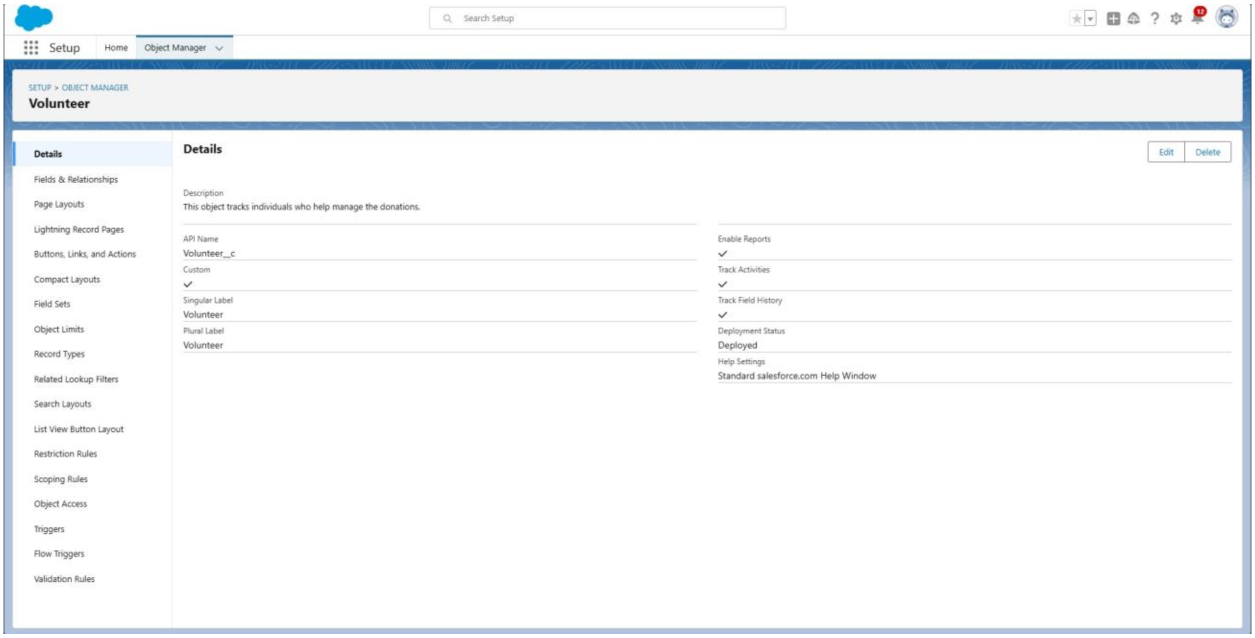
Click "Objects" under "Build".

Click "New Custom Object".

Enter "Volunteer" as the label.

Enter "Volunteers" as the plural label.

Click "Save".



CreateDonationHistoryObject:Thisobjectlogsthehistoryofdonations made.

Navigate to Setup (gear icon).

Search for "Objects" in the Quick Find box.

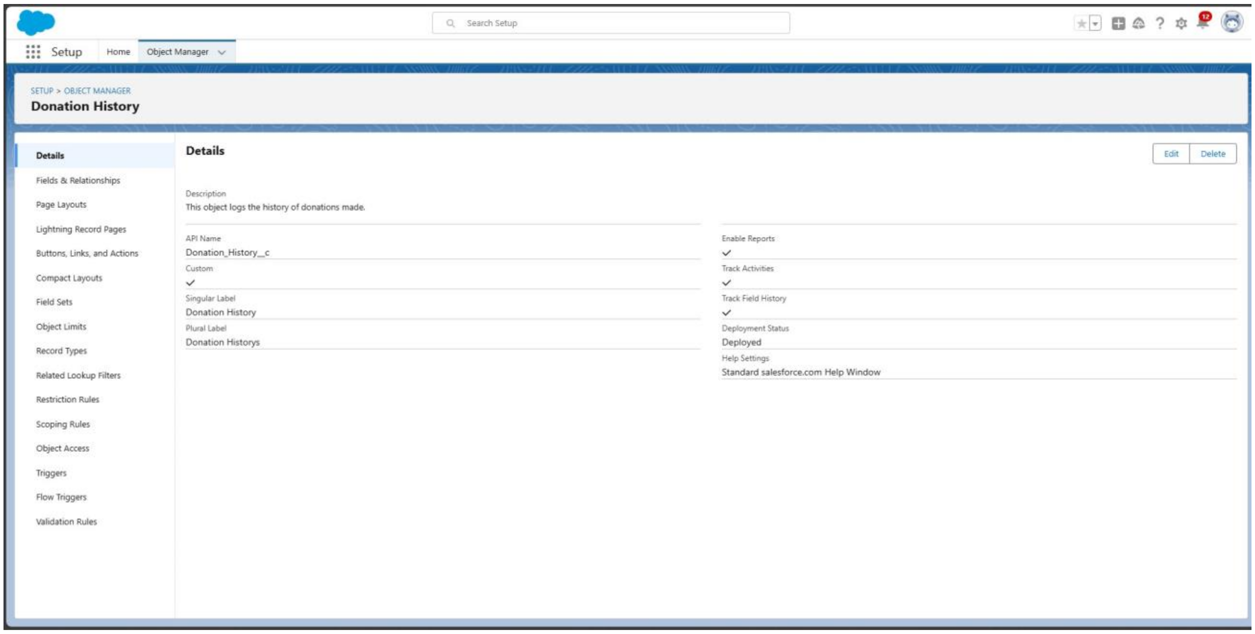
Click "Objects" under "Build".

Click "New Custom Object".

Enter "Donation History" as the label.

Enter "Donation Histories" as the plural label.

Click "Save".



CreateDonorObject:Thisobjectrecordsinformationaboutindividualsor businessesdonatingfood.

Navigate to Setup (gear icon).

Search for "Objects" in the Quick Find box.

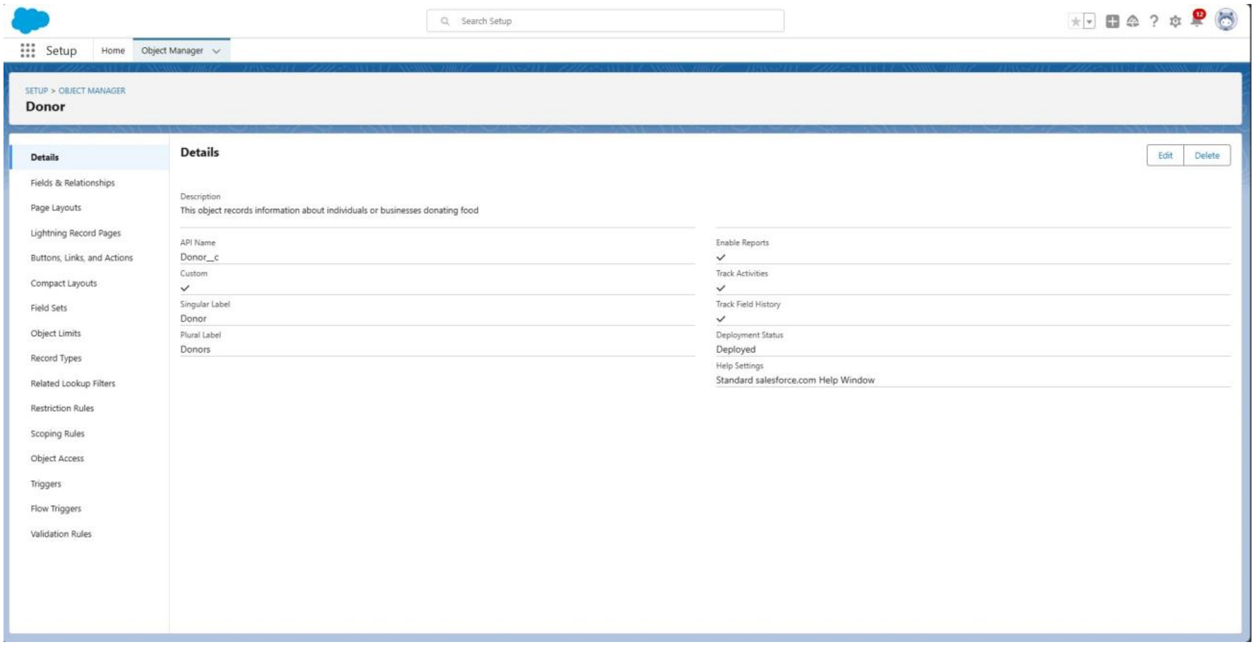
Click "Objects" under "Build".

Click "New Custom Object".

Enter "Donor" as the label.

Enter "Donors" as the plural label.

Click "Save".



Creation of fields:

CreationoffieldstoFoodDonationObject:

1. Name:The name of the food item.

1. Click "Fields" under Food Donation.
2. Click "New Field".
3. Select "Text" as the data type.
4. Enter "Name" as the field label.
5. Make it required.
6. Click "Save".

2. Type:Specifies the category of food.

1. Click "New Field".
2. Select "Picklist" as the data type.
3. Enter "Type" as the field label.
4. Add values: Perishable, Non-Perishable, Semi-Perishable.

5. Make it required.
6. Click "Save".

3. Quantity:The amount of food donated.

1. Click "New Field".
2. Select "Number" as the data type.
3. Enter "Quantity" as the field label.
4. Make it required.
5. Click "Save".

4. Expiration Date:The date by which the food should be consumed.

1. Click "New Field".
2. Select "Date" as the data type.
3. Enter "Expiration Date" as the field label.
4. Make it required.
5. Click "Save".

5. Charity Organization:Links to the Charity Organization object.

1. Click "New Field".
2. Select "Lookup" as the data type.
3. Enter "Charity Organization" as the field label.
4. Select "Charity Organization" as the related object.
5. Make it required.
6. Click "Save".

6. Status:The current status of the donation.

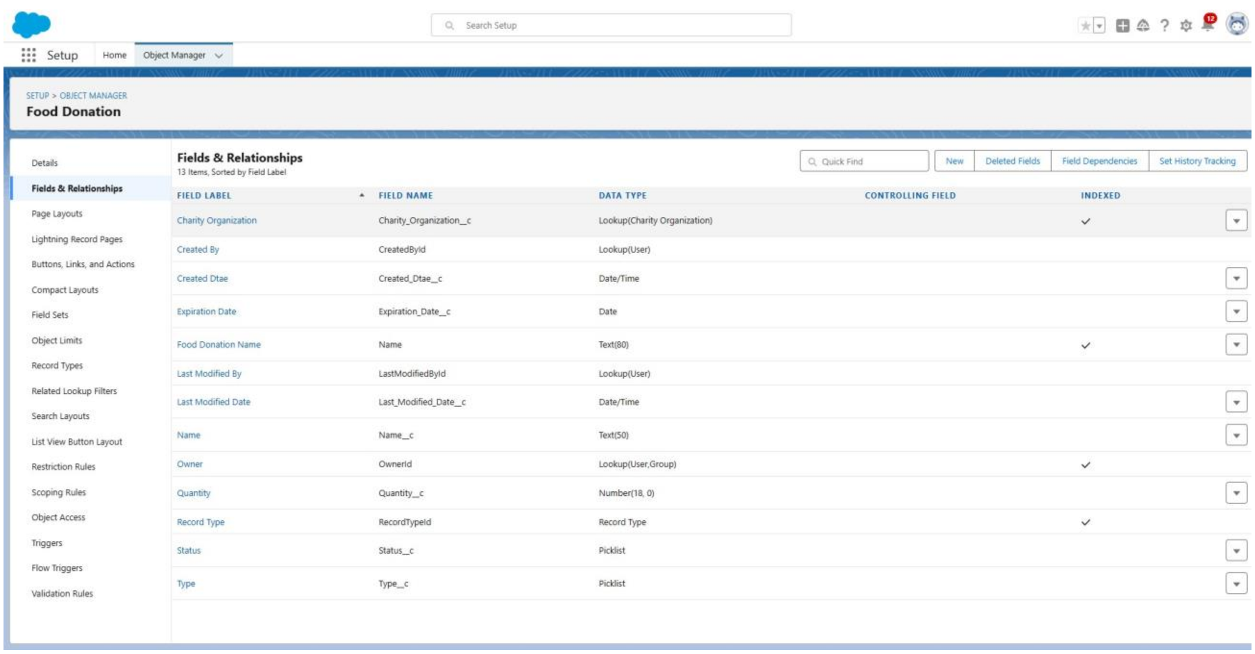
1. Click "New Field".
2. Select "Picklist" as the data type.
3. Enter "Status" as the field label.
4. Add values: Pending, Approved, Rejected.
5. Make it required.
6. Click "Save".

7. Created Date:Timestamp of when the donation was created.

1. Click "New Field".
2. Select "DateTime" as the data type.
3. Enter "Created Date" as the field label.
4. Select "Auto-populated" and "Read-only".
5. Click "Save".

8. Last Modified Date:Timestamp of the last update.

1. Click "New Field".
2. Select "DateTime" as the data type.
3. Enter "Last Modified Date" as the field label.
4. Select "Auto-populated" and "Read-only".
5. Click "Save".



CreationoffieldstoCharityOrganizationObject:

1. Name:The name of the charity organization.

1. Click "Fields" under Charity Organization.
2. Click "New Field".
3. Select "Text" as the data type.
4. Enter "Name" as the field label.
5. Make it required.
6. Click "Save".

2. Contact Information:How to contact the organization.

1. Click "New Field".
2. Select "Phone" as the data type.
3. Enter "Phone" as the field label.
4. Click "Save".

5. Click "New Field".
6. Select "Email" as the data type.
7. Enter "Email" as the field label.
8. Click "Save".

3. Capacity: Maximum capacity for receiving donations.

1. Click "New Field".
2. Select "Number" as the data type.
3. Enter "Capacity" as the field label.
4. Click "Save".

4. Total Donations Received: A summary of all donations received by this organization.

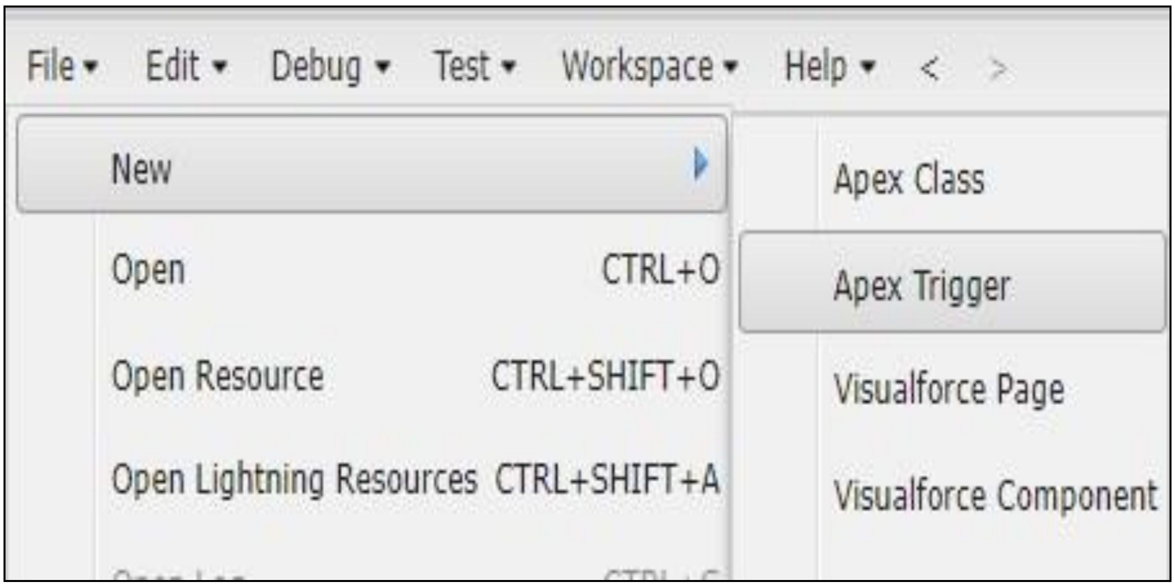
1. Click "New Field".
2. Select "Number as the data type.
3. Enter "Total Donations Received" as the field label.
4. Click "Save".

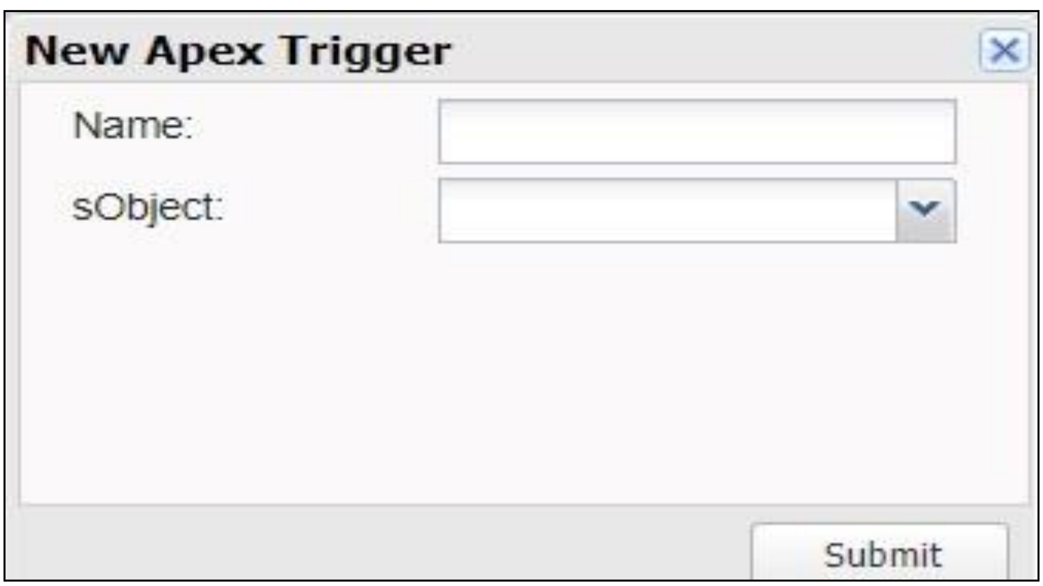
****Write an **ApexTrigger** to Update Total Donations:

Navigate to Developer Console.

Create a new Apex Trigger on Food Donation Object:

1.click on file -> new -> Apex Trigger
2. label:UpdateTotalDonations
   Object:Food Donation





3.Submit and write the code

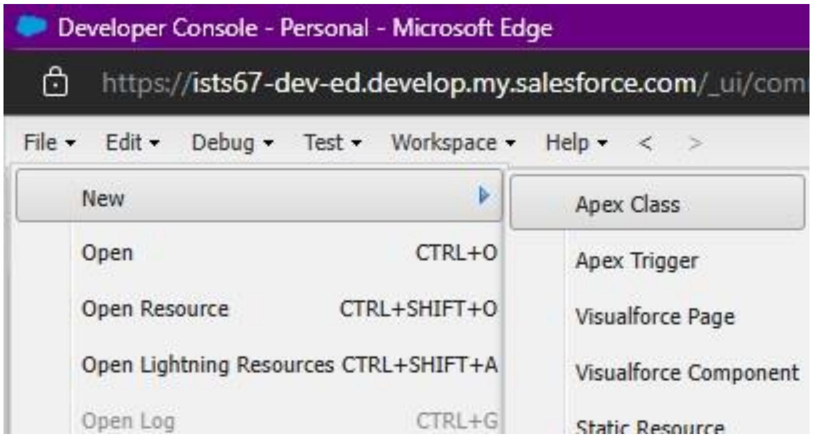
```
trigger UpdateTotalDonations on Food_Donation__c
(after insert, after update, after delete) {
    Set<Id> charityOrgIds = new Set<Id>();

    // Collect Charity Organization Ids from inserted/updated/deleted Food
Donation records if (Trigger.isInsert || Trigger.isUpdate) {
        for (Food_Donation__c donation : Trigger.new) {
            charityOrgIds.add(donation.Charity_Organization__c);
        }
    }
    if (Trigger.isDelete) {
        for (Food_Donation__c donation : Trigger.old) {
            charityOrgIds.add(donation.Charity_Organization__c);
        }
    }

    // Aggregate Donations and update Charity Organizations
    List<Charity_Organization_c> charitiesToUpdate = new
List<Charity_Organization_c>();
    for (Id charityId : charityOrgIds)
    {
        AggregateResult[] results = [SELECT SUM(Quantity_c) totalDonations FROM
Food_Donationc WHERE Charity_Organization_c = :charityId];
        Charity_Organization_c charity = new Charity_Organization_c(
            Id = charityId,
            Total_Donations_Received__c = (Decimal) (results[0].get('totalDonations') !=
null ? results[0].get('totalDonations') : 0)
        );
        charitiesToUpdate.add(charity);
    }
    update charitiesToUpdate;
}
```

Test the trigger:

1.click on file -> new -> Apex Class



Label it as UpdateTotalDonationsTriggerTest and click on ok.

Code:
```
@isTest public class
UpdateTotalDonationsTriggerTest {
    @isTest static void testInsertFoodDonation() {
        // Create a Charity Organization record
        Charity_Organization_c charity = new Charity_Organization_c(
            Name = 'Charity Test',
            Capacity__c = 100,
            Total_Donations_Received__c = 0
        );
        insert charity;

        // Create a Food Donation record
        Food_Donation_c donation = new Food_Donation_c(
            Name = 'Donation Test',
            Type__c = 'Perishable',
```

```
            Quantity__c = 10,
            Expiration_Date__c = Date.today().addDays(10),
            Charity_Organization__c = charity.Id,
            Status__c = 'Pending'
        );
        insert donation;

                charity = [SELECT Id, Total_Donations_Received_c FROM
Charity_Organization_c WHERE Id = :charity.Id];
        System.assertEquals(10, charity.Total_Donations_Received__c);
    }

    @isTest static void testUpdateFoodDonation() {
        // Create a Charity Organization record
        Charity_Organization_c charity = new Charity_Organization_c(
            Name = 'Charity Test',
            Capacity__c = 100,
            Total_Donations_Received__c = 0
        );
        insert charity;


        Food_Donation_c donation = new Food_Donation_c(
            Name = 'Donation Test',
            Type__c = 'Perishable',
            Quantity__c = 10,
            Expiration_Date__c = Date.today().addDays(10),
            Charity_Organization__c = charity.Id,
            Status__c = 'Pending'
        );
        insert donation;

               donation.Quantity__c = 20;
        update donation;

               charity = [SELECT Id, Total_Donations_Received_c FROM
```

```
Charity_Organization_c WHERE Id = :charity.Id];
        System.assertEquals(20, charity.Total_Donations_Received__c);
    }
```

```
    @isTest static void testDeleteFoodDonation() {
            Charity_Organization_c charity = new Charity_Organization_c(
          Name = 'Charity Test',
          Capacity__c = 100,
          Total_Donations_Received__c = 0
        );
        insert charity;

            Food_Donation_c donation = new Food_Donation_c(
          Name = 'Donation Test',
          Type__c = 'Perishable',
          Quantity__c = 10,
          Expiration_Date__c = Date.today().addDays(10),
          Charity_Organization__c = charity.Id,
          Status__c = 'Pending'
        );
        insert donation;

             delete donation;

            charity = [SELECT Id, Total_Donations_Received_c FROM
Charity_Organization_c WHERE Id = :charity.Id];
        System.assertEquals(0, charity.Total_Donations_Received__c);
    }
}
```

Run the Test Class:

In Developer Console, go to Test -> New Run.

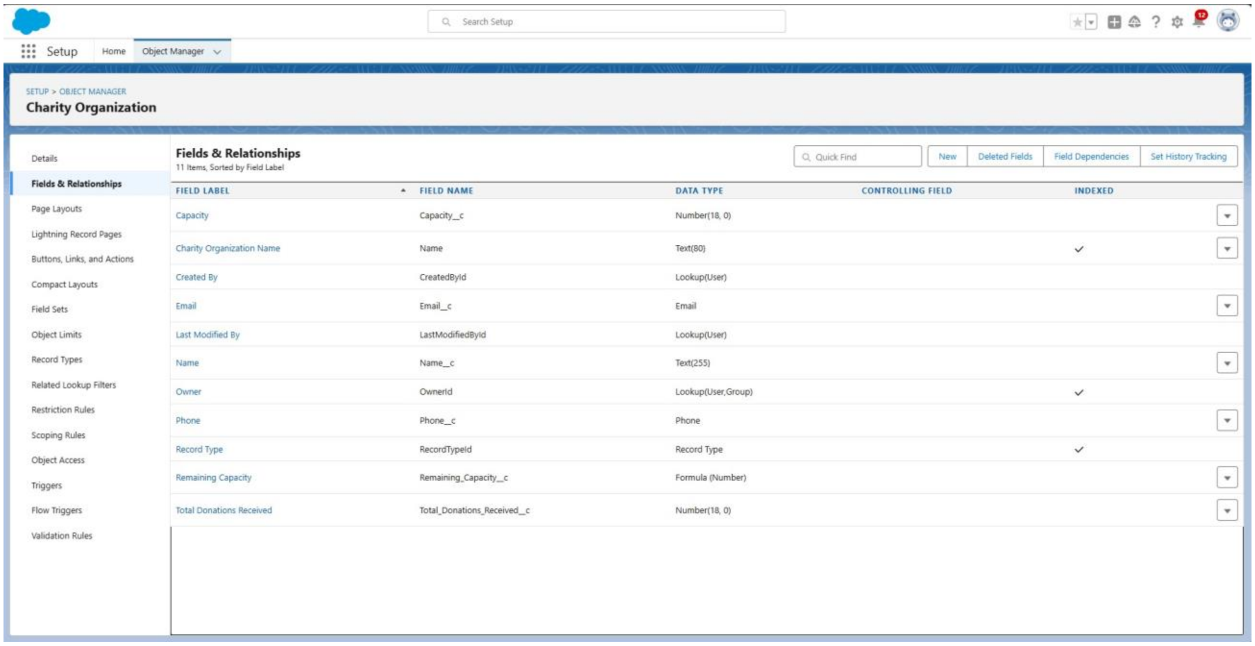
Select UpdateTotalDonationsTriggerTest and click Run.

5. Remaining Capacity: Calculated field that shows remaining capacity.

1. Click "New Field" Under Charity Organization.

Select

2. Select "Formula" as the data type.
3. Enter "Remaining Capacity" as the field label.
4. "Number" as the formula return type.
5. Enter the formula: Capacity - Total_Donations_Received__c 6.check syntax
7.Click "Save".



CreationofFieldstoVolunteerObject:

1. Name :The volunteer's name.

1. Click "Fields" under Volunteer.
2. Click "New Field".
3. Select "Text" as the data type.
4. Enter "Name" as the field label.
5. Make it required.
6. Click "Save".

2. Contact Information:Contact details for the volunteer.

1. Click "New Field".

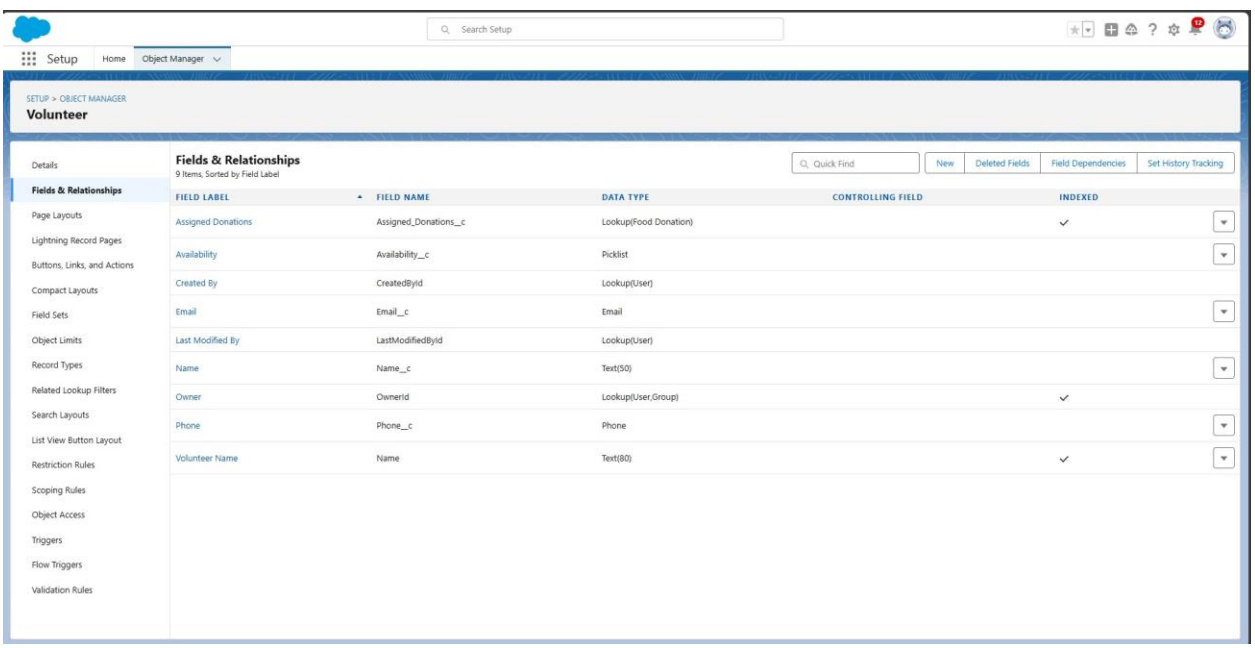
2. Select "Phone" as the data type.
3. Enter "Phone" as the field label.
4. Click "Save".
5. Repeat for Email.

3. Availability :Times when the volunteer is available.

1. Click "New Field".
2. Select "Picklist" as the data type.
3. Enter "Availability" as the field label.
4. Add values: Morning, Afternoon, Evening.
5. Click "Save".

4. Assigned Donations : Links to Food Donation for tracking assigned tasks.

1. Click "New Field".
2. Select "Lookup" as the data type.
3. Enter "Assigned Donations" as the field label.
4. Select "Food Donation" as the related object.
5. Click "Save".



CreationofFieldstoDonationHistoryObject:

1. Donation Date :The date when the donation was made.

Select

1. Click "Fields" under Donation History.
2. Click "New Field".
3. "Date" as the data type.
4. Enter "Donation Date" as the field label.
5. Make it required.
6. Click "Save".

2. Donation Quantity : The amount of food donated.

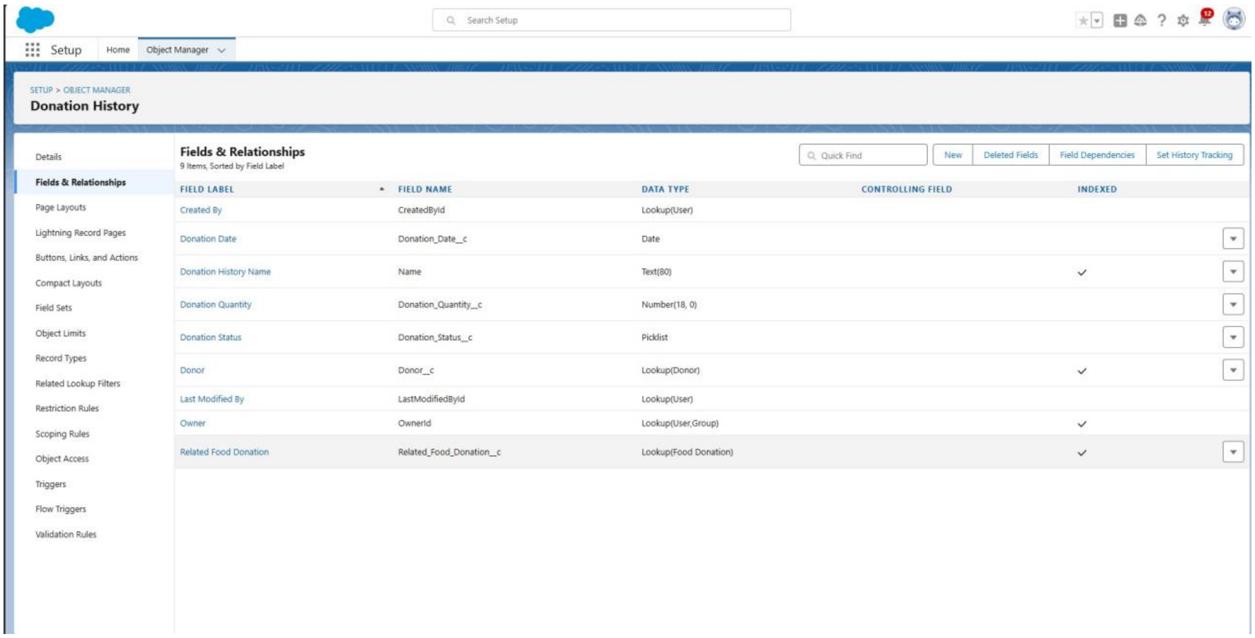
1. Click "New Field".
2. Select "Number" as the data type.
3. Enter "Donation Quantity" as the field label.
4. Make it required.
5. Click "Save".

3. Donation Status :The current status of the donation.

1. Click "New Field".
2. Select "Picklist" as the data type.
3. Enter "Donation Status" as the field label.
4. Add values: Delivered, Pending, Failed.
5. Click "Save".

4. Related Food Donation :Links back to the Food Donation object.

1. Click "New Field".
2. Select "Lookup" as the data type.
3. Enter "Related Food Donation" as the field label.
4. Select "Food Donation" as the related object.
5. Click "Save".



CreationofFieldstoDonorObject:

1. Name : The name of the donor.

1. Click "Fields" under Donor.
2. Click "New Field".
3. Select "Text" as the data type.
4. Enter "Name" as the field label.
5. Make it required.
6. Click "Save".

2. Contact Information: How to contact the donor.

1. Click "New Field".
2. Select "Phone" as the data type.
3. Enter "Phone" as the field label.
4. Click "Save".
5. Repeat for Email.

3. Donation History:Links to past donation records.

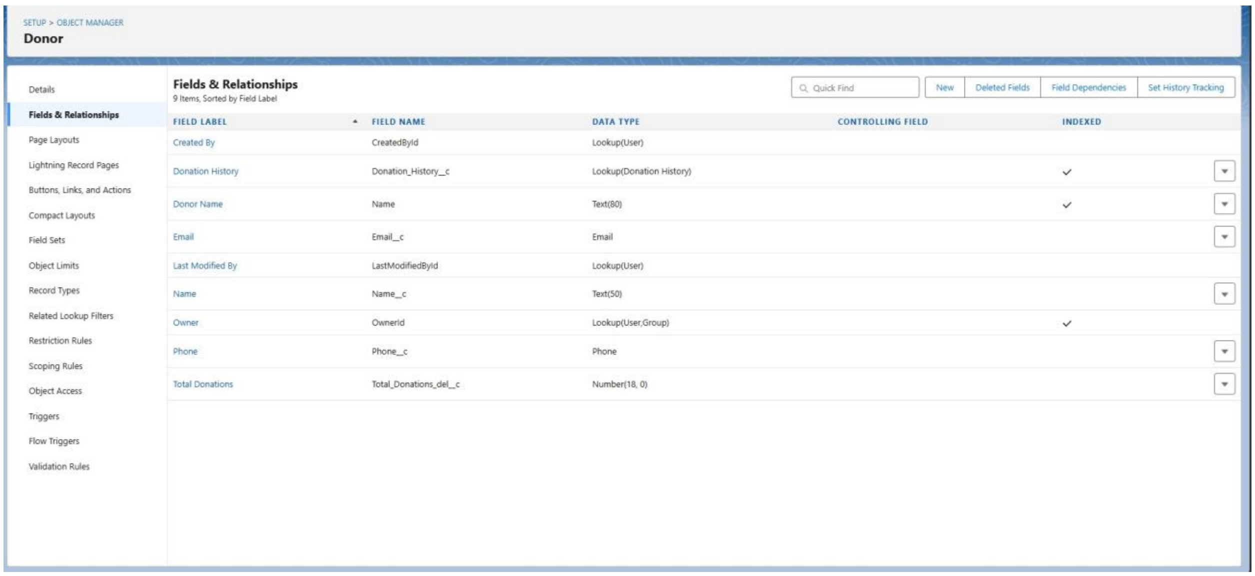
1. Click "New Field".
2. Select "Lookup" as the data type.

Select

3. Enter "Donation History" as the field label.
4. "Donation History" as the related object.
5. Click "Save".

4. Total Donations :

1. Click "New Field".
2. Select "Number" as the data type.
3. Enter "Total Donations" as the field label.
4.Click "Save".



CreationofTabs:

1. Navigate to the Setup Menu:

Go to Setup in Salesforce.

2. Search for Tabs:

In the Quick Find box, type Tabs and select Tabs under User Interface.

3. Create a New Tab for Each Object:

Step 1: Food Donation

Click New in the Custom Object Tabs section.

Select

Select Food Donation as the object.

Choose a Tab Style (icon) for the tab.

Click Next and then Save.

Step 2: Charity Organization Click New in the Custom

Object Tabs section.

Select Charity Organization as the object.

Choose a Tab Style (icon) for the tab.

Click Next and then Save.

**Step 3: Volunteer

Click New in the Custom Object Tabs section.

Select Volunteer as the object.

Choose a Tab Style (icon) for the tab.

Click Next and then Save.

**Step 4: Donation History Click New in the Custom

Object Tabs section.

Select Donation History as the object.

Choose a Tab Style (icon) for the tab.

Click Next and then Save.

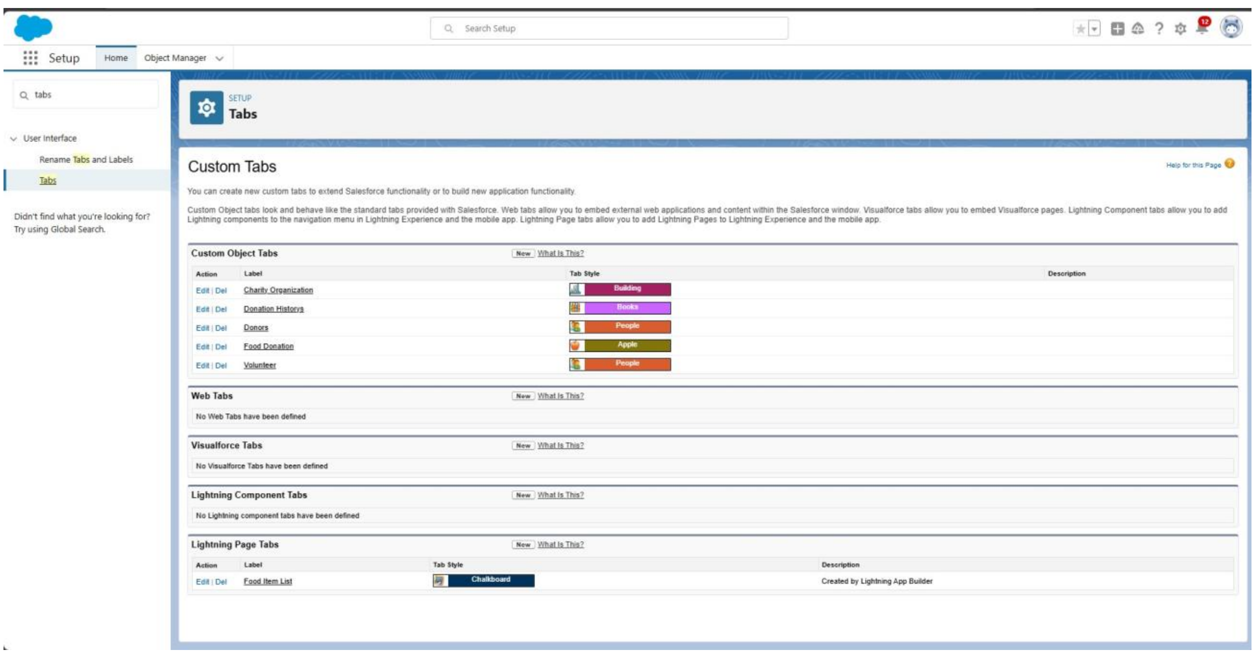
**Step 5: Donor

Click New in the Custom Object Tabs section.

Select Donor as the object.

Choose a Tab Style (icon) for the tab.

Click Next and then Save.

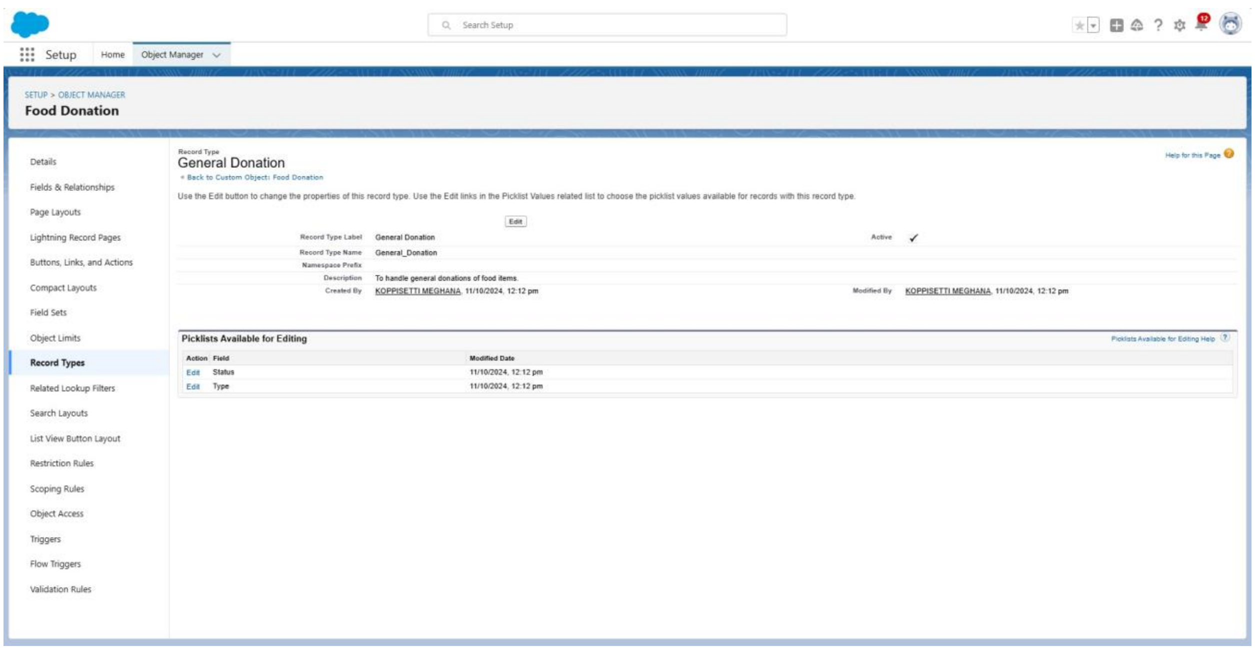


Creation of Record Types:

RecordTypesandPageLayoutsconfiguration:

Food Donation:

1. Go to Setup.
2. Search for "Record Types" in the Quick Find box.
3. Select "Record Types" under "Build".
4. Choose "Food Donation" object.
5. Create/Edit Record Type:
   - Label: Default (General Donation) - Description: General donation record type
6. Go to Page Layouts.
7. Select "Food Donation" object.
8. Edit Page Layout:
   - Add all fields - Add related lists:
   - Charity Organization
   - Volunteers

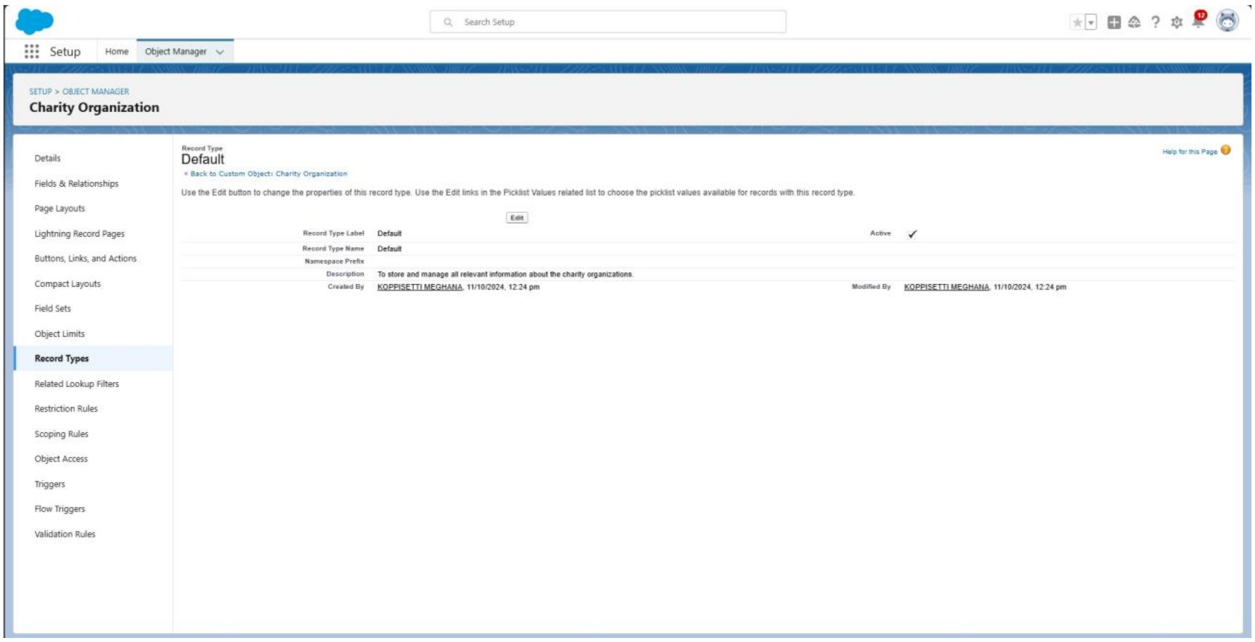


Charity Organization

1. Go to Setup.
2. Search for "Record Types" in the Quick Find box.
3. Select "Record Types" under "Build".
4. Choose "Charity Organization" object.
5. Create/Edit Record Type:
   - Label: Default

- Description: Default charity organization record type

6. Go to Page Layouts.
7. Select "Charity Organization" object.
8. Edit Page Layout:
    - Add all contact details - Add all capacity details - Add related lists:
    - Food Donations



Creation of validation rules:

CreateValidationRuleorFoodDonationobject:

1. Log in to Salesforce.
2. Click the gear icon (⚙) and select Setup.
3. Search for "Validation Rules" in the Quick Find box.
4. Click "Validation Rules" under "Build".
5. Click "New Validation Rule".
6. Select "Food Donation" as the object.

Rule Details

1. Label: "Food Donation Quantity Validation".
2. Description: "Ensure Food Donation Quantity is greater than 0".

3. Error Message: "Food Donation Quantity must be greater than 0".

Rule Criteria

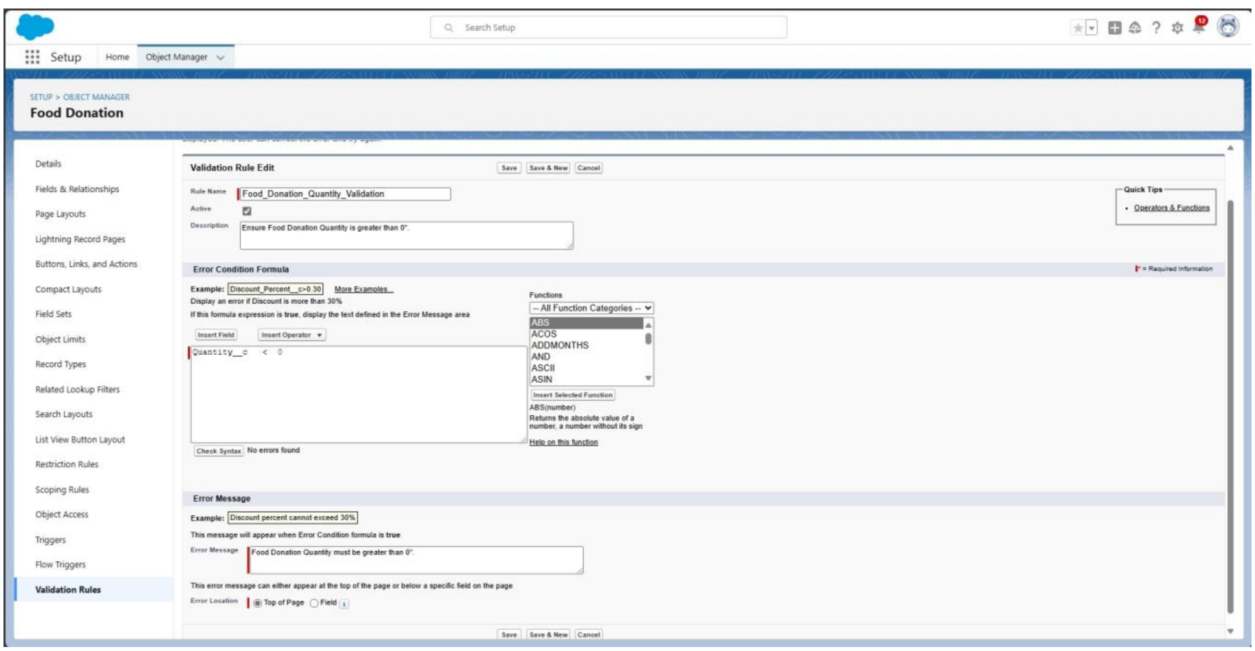
1. Field: Food Donation Quantity.
2. Operator: Less Than.
3. Value: 0.

Rule Formula

Quantity__c < 0

Save and Activate

1. Click Save.
2. Activate the rule.



Creation of Record pages:

Navigate to Lightning App Builder:

Go to Setup.

In the Quick Find box, type Lightning App Builder and select it.

2. Create New Record Page:

Click New → Record Page.

Select Food Donation from the list of objects.

Click Next.

3. Configure Page Details:

Name your page (e.g., Food Donation Details).

Click Next.

4. Customize the Detailed View:

4.1 Include All Necessary Fields:

Drag and Drop Record Details Component:

Drag the Record Details component onto the canvas to display all fields of the Food Donation record.

Make sure to include the following fields:

Name

Type (Picklist)

Quantity

Expiration Date
Charity Organization (Lookup)

Status (Picklist)

4.3 Include Related Lists:

Add Related Lists Component:

Drag the Related Lists component onto the canvas.

Include related records such as:

Donation History

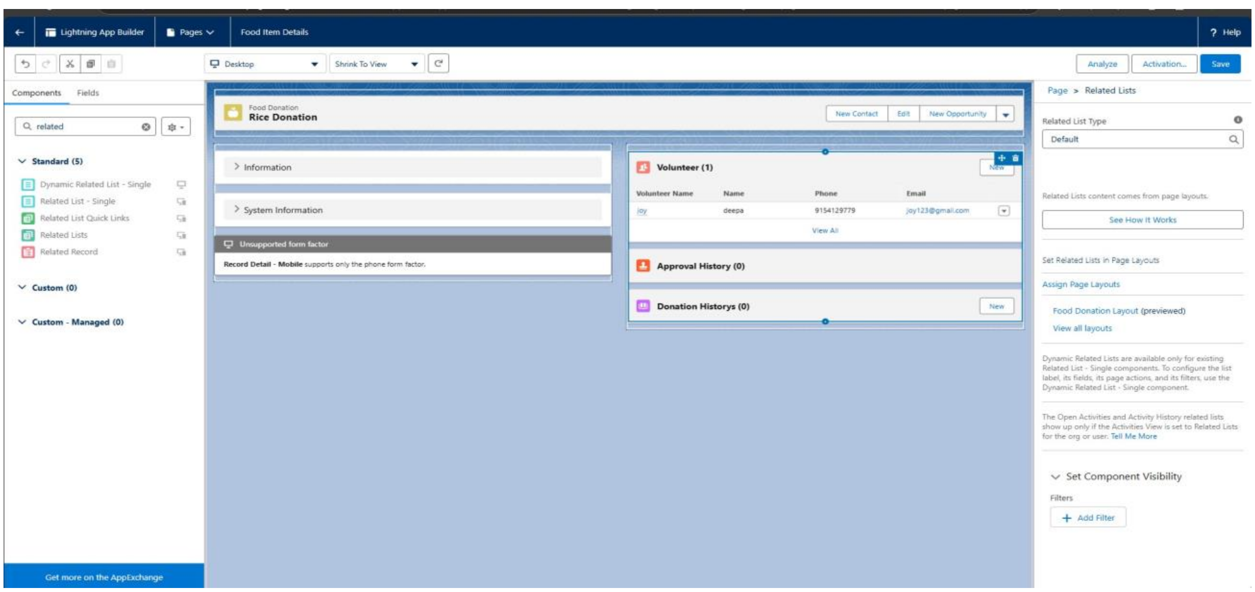
Volunteers

4.Highlights Panel:

Drag the Highlights Panel component to the top of the page for key information.

to visualize data, like donation trends over time.

5. Save and Activate:



Create New App Page:

Click New → App Page.

Select Standard List View.

Click Next.

Configure Page Details:

Name your page (e.g., Food Donation List).

Click Next.

Select Object:

Choose Food Donation from the list of objects.

Click Next.

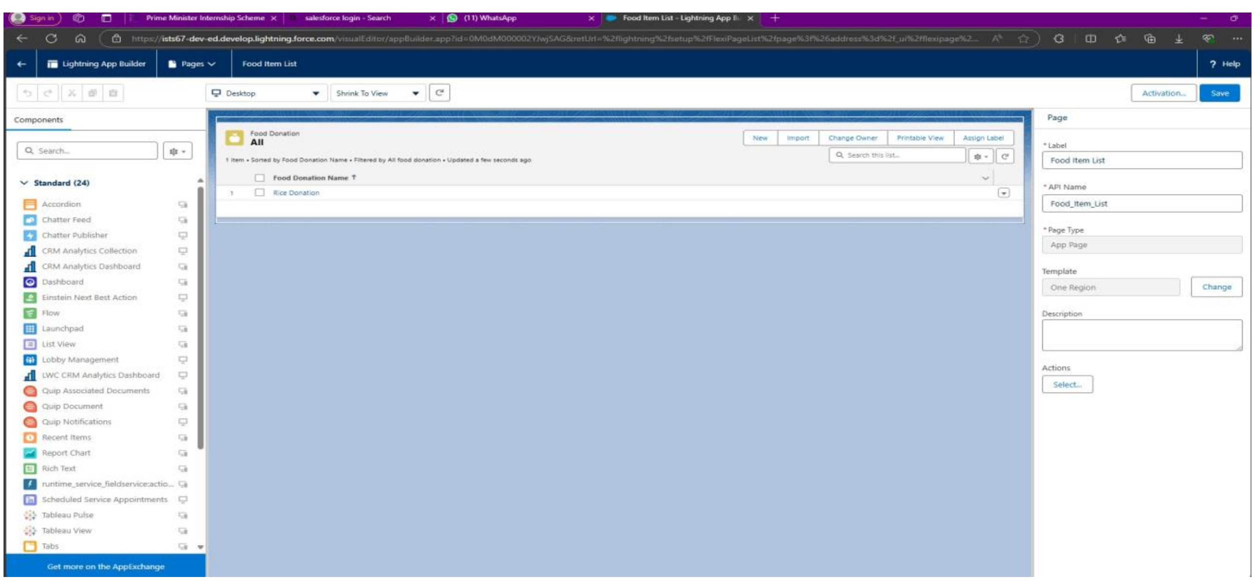
Customize the Layout:

List View:

Drag the List View component onto the canvas.

Set it to display Food Donations.

Save and Activate:



Set Up Profiles:

1. Navigate to Profiles: Go to Setup. In the Quick Find box, type Profiles and select Profiles.
2. Create New Profiles (if necessary): Clone existing profiles to create custom profiles.

Admin Profile

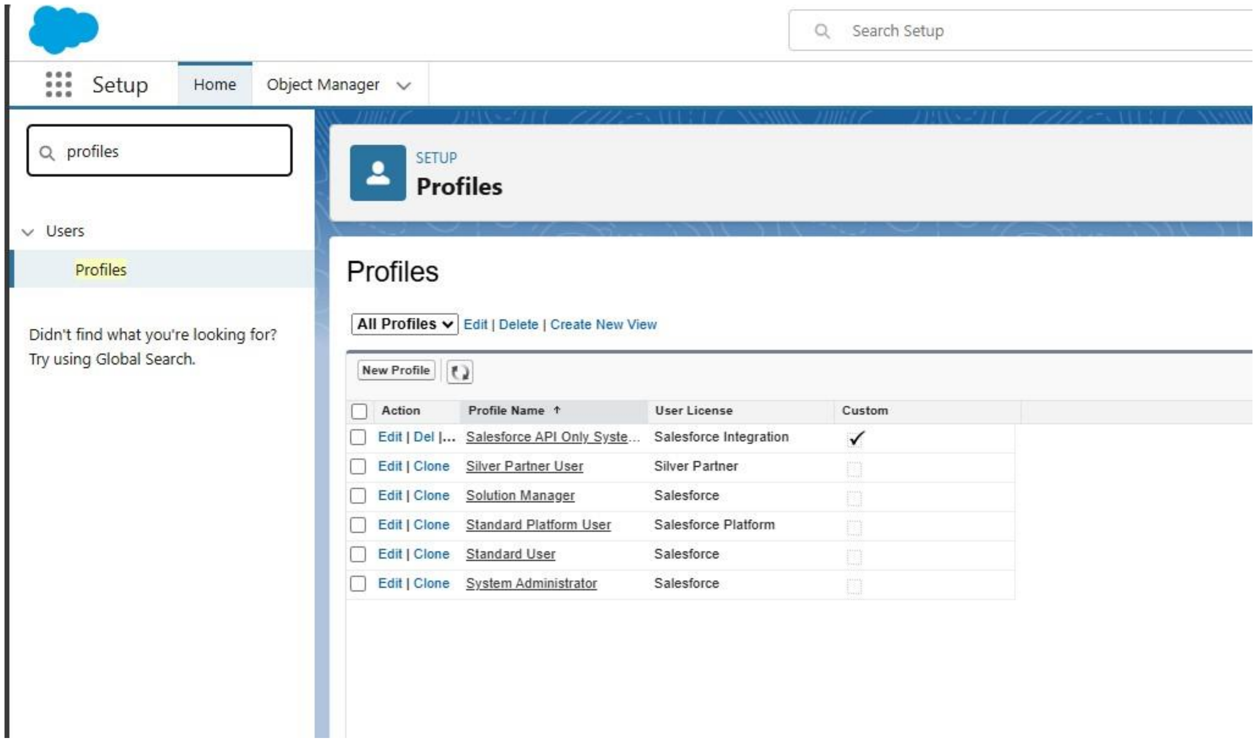
- Clone from: Standard Platform User Profile
- Name: Admin (Full Access)
- Permissions: Grant all administrative permissions

Volunteer Profile

- Clone from: Standard User Profile
- Name: Volunteer (Access to Food Donations)
- Permissions: Grant read/write access to Food Donation records

Charity Coordinator Profile

- Clone from: Standard User Profile
- Name: Charity Coordinator (Access to Charity Organizations)
- Permissions: Grant read/write access to Charity Organization records



Set Up Roles:

1. Navigate to Roles Go to Setup:

Click the gear icon (⚙) in the top-right corner and select Setup.

Search for Roles:

In the Quick Find box, type Roles and select it.

2. Create Role Hierarchy

A. Create Admin Role

Add Role: Click the Add Role button.

Enter Details:

Label: Admin

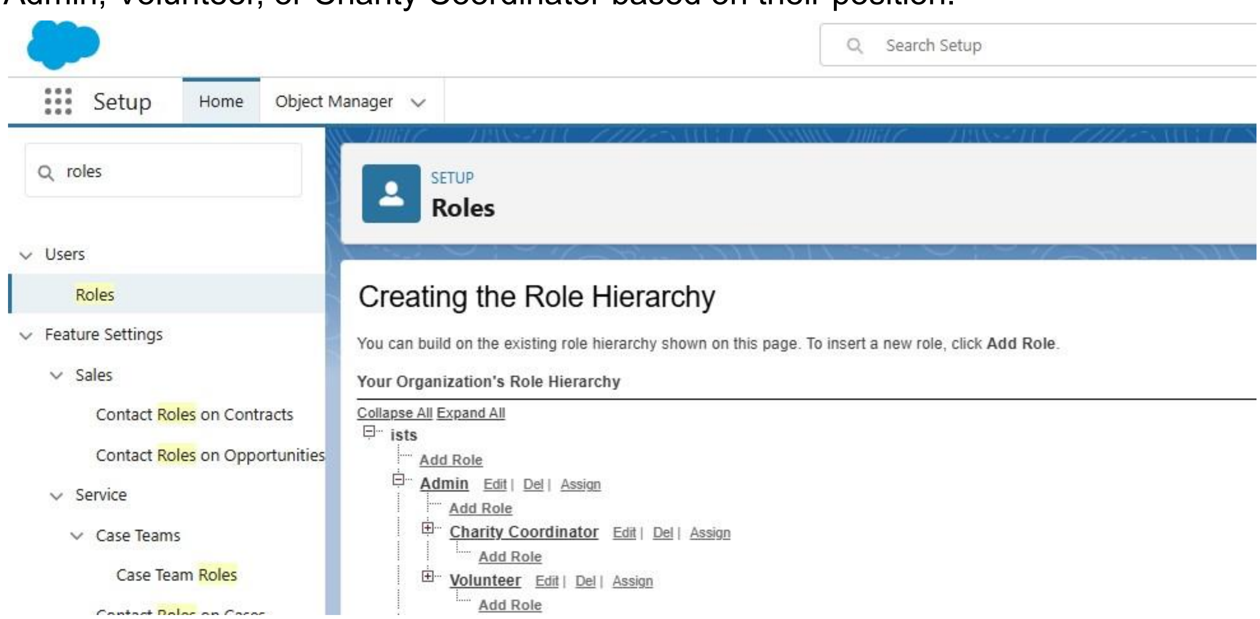
Role Name: Admin

Parent Role: Ists

Save the role.

B. Create Volunteer Role

Add Role: Click the Add Role button again.
Enter Details:
Label: Volunteer
Role Name: Volunteer
Parent Role: Select Admin as the parent.
Save the role.
C. Create Charity Coordinator Role Add Role: Click the Add Role button once more.
Enter Details:
Label: Charity Coordinator (Access to Charity Organizations)
Role Name: Charity Coordinator
Role Name as Displayed on Reports: Charity Coordinator
Parent Role: Select Admin as the parent.
Save the role.
Step 3: Verify Role Hierarchy
Go back to the Roles section in Setup.
Verify that the hierarchy is set up as follows:
Admin
Volunteer (under Admin)
Charity Coordinator (under Admin)
Step 4: Assign Roles to Users
Navigate to Setup → Users → Users.
For each user (e.g., Jane Smith), click Edit and assign the appropriate role.
Admin, Volunteer, or Charity Coordinator based on their position.



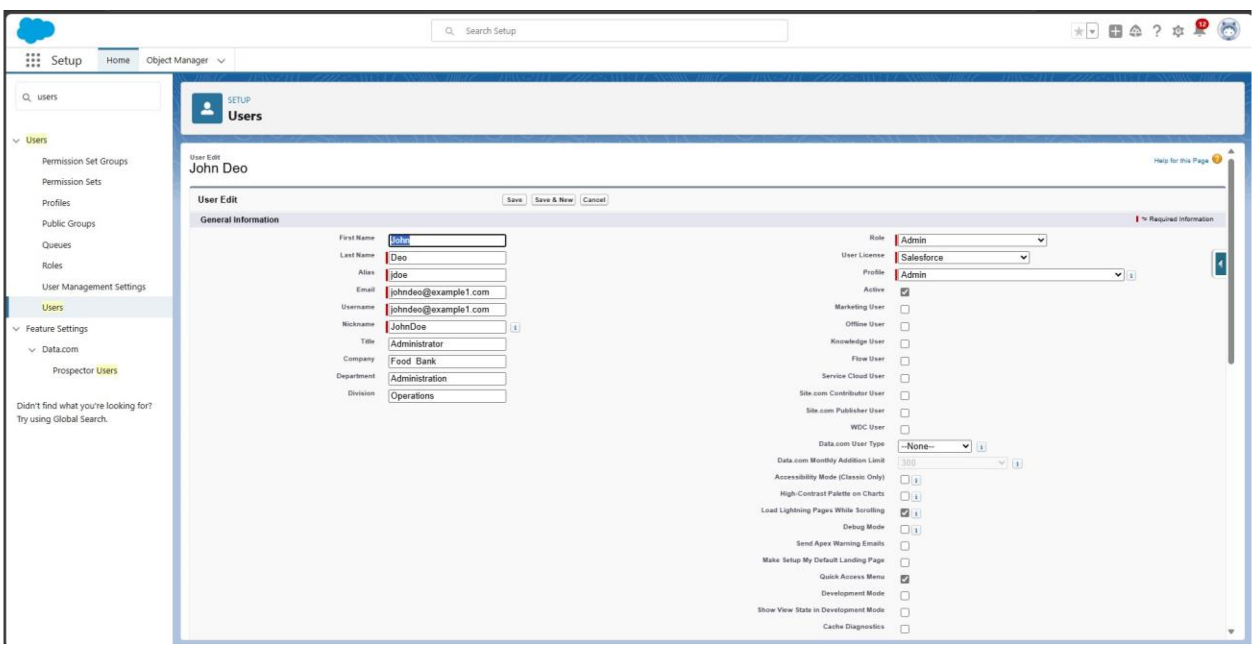
Create Users:

1. Navigate to Setup: Go to Setup in Salesforce.
2. Search for Users: In the Quick Find box, type Users and select Users.
3. Create New Users: Click New User.

User 1: Admin

- First Name: John
- Last Name: Doe
- Role: Admin
- User License: Salesforce
- Alias: jdoe
- Profile: Admin
- Email: jdoe@example1.com
- Username: jdoe@example1.com
- Nickname: JohnDoe
- Title: Administrator
- Company: Food Bank
- Department: Administration
- Division: Operations

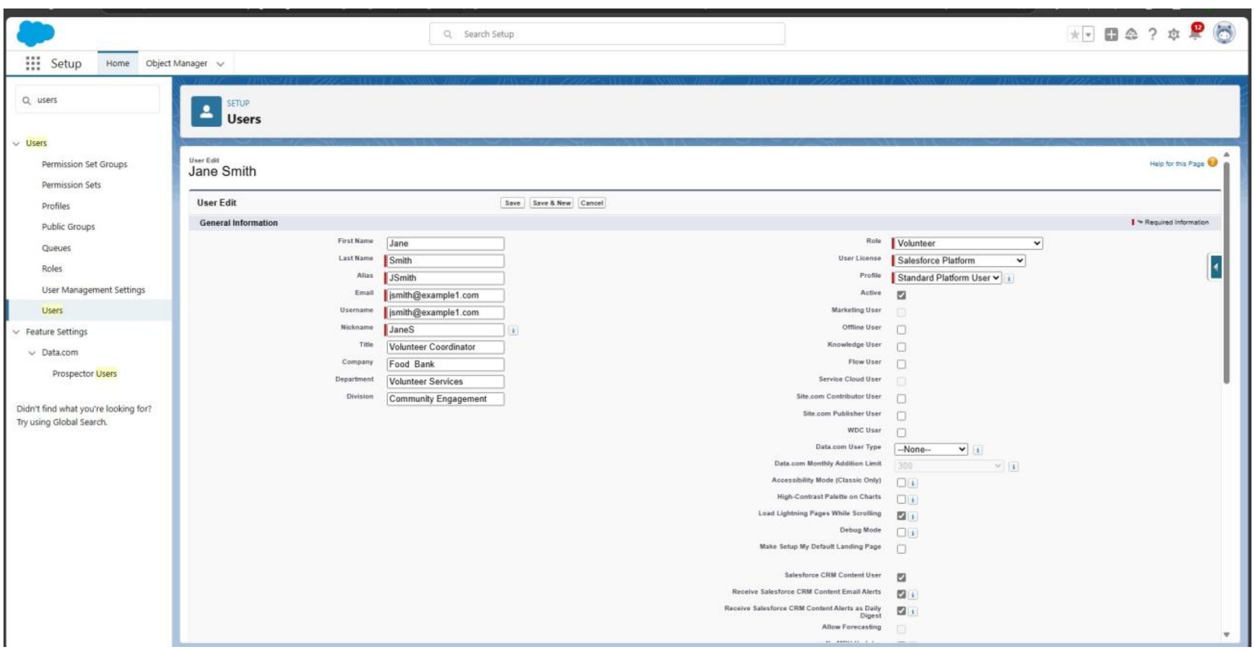
Save



User 2: Volunteer Manager

- First Name: Jane
- Last Name: Smith
- Role: Volunteer
- User License: Salesforce Platform
- Alias: jsmith
- Profile: Standard Platform User (Access to Food Donations)
- Email: jsmith@example1.com
- Username: jsmith@example1.com
- Nickname: JaneS
- Title: Volunteer Coordinator
- Company: Food Bank
- Department: Volunteer Services
- Division: Community Engagement

Save

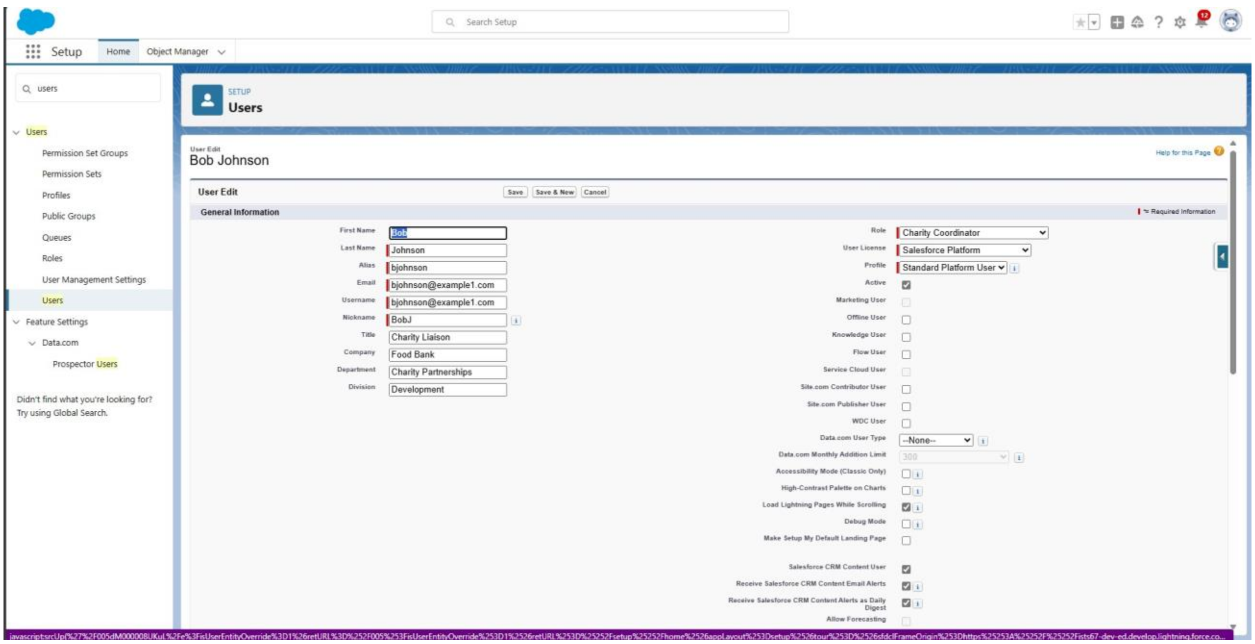


User 3: Charity Coordinator

- First Name: Bob
- Last Name: Johnson
- Role: Charity Coordinator

- User License: Salesforce platform
- Alias: bjohnson
- Profile :Standard Platform User(Access to Charity Organizations)
- Email: bjohnson@example.com
- Username: bjohnson@example.com
- Nickname: BobJ
- Title: Charity Liaison
- Company: Food Bank
- Department: Charity Partnerships
- Division: Development

Click Save



Create Permission Sets:

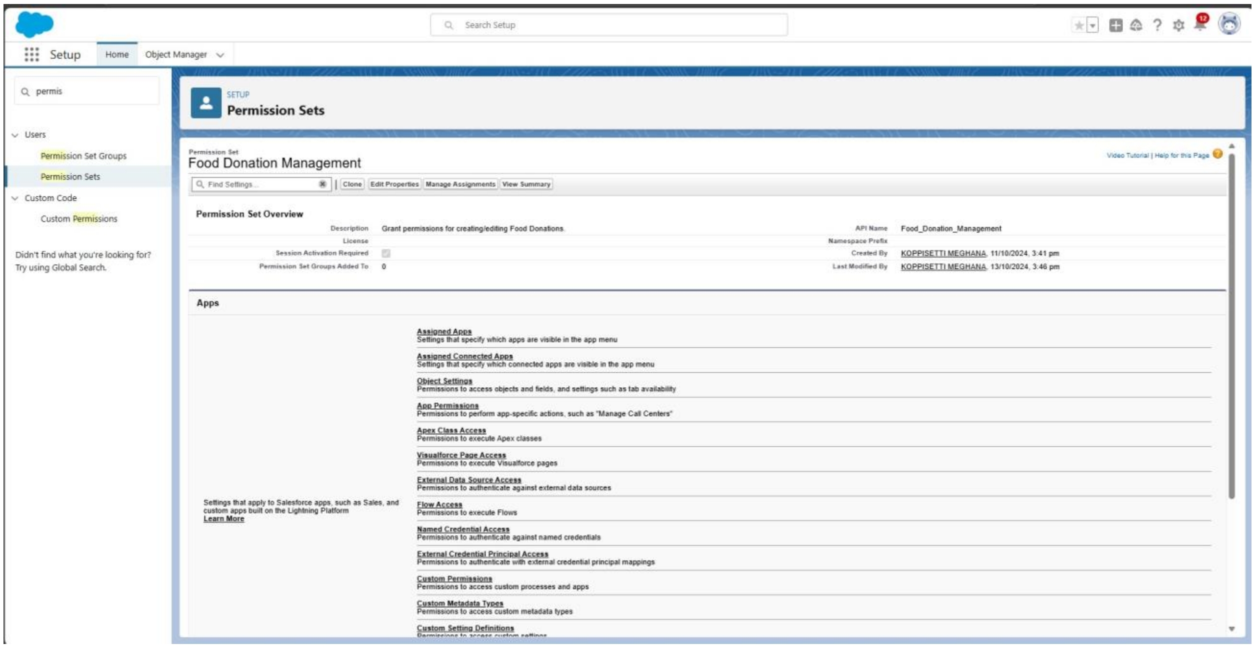
1. Navigate to Permission Sets: Go to Setup. In the Quick Find box, type Permission Sets and select Permission Sets.
2. Create New Permission Sets:

Food Donation Management Permission Set

- Name: Food Donation Management

- Permissions: Grant permissions for creating/editing Food Donations

Click Save



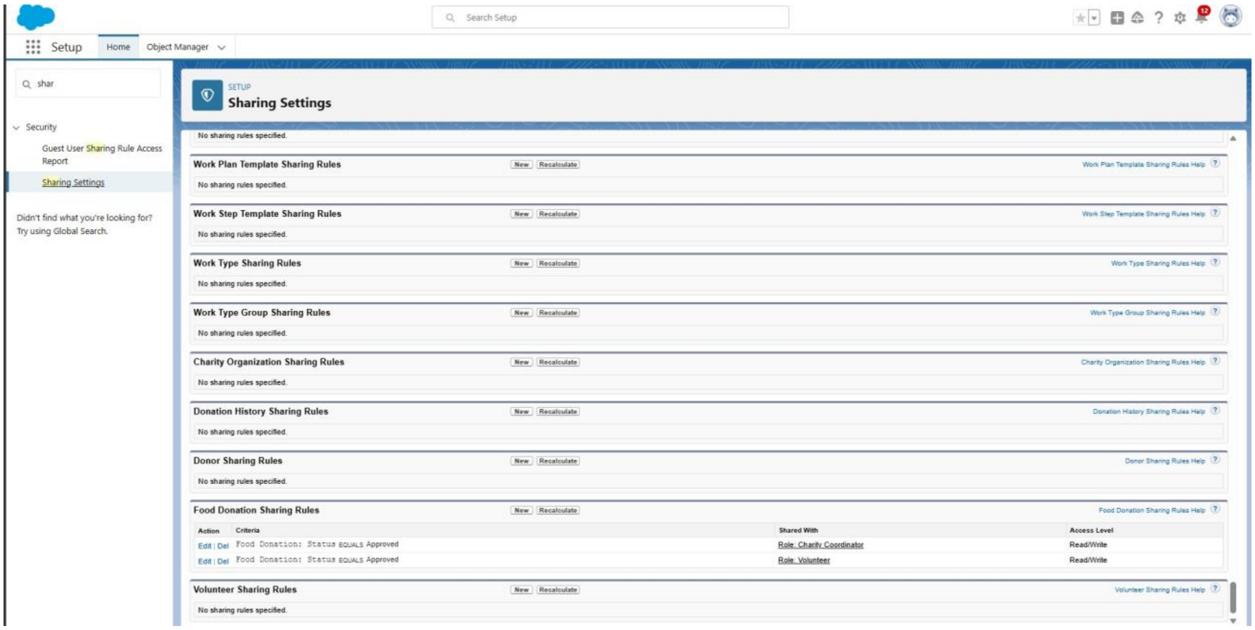
Set Up Sharing Rules

1. Navigate to Sharing Settings: Go to Setup. In the Quick Find box, type Sharing Settings and select Sharing Settings.
2. Create Sharing Rules:

Open Food Donation Sharing Rule

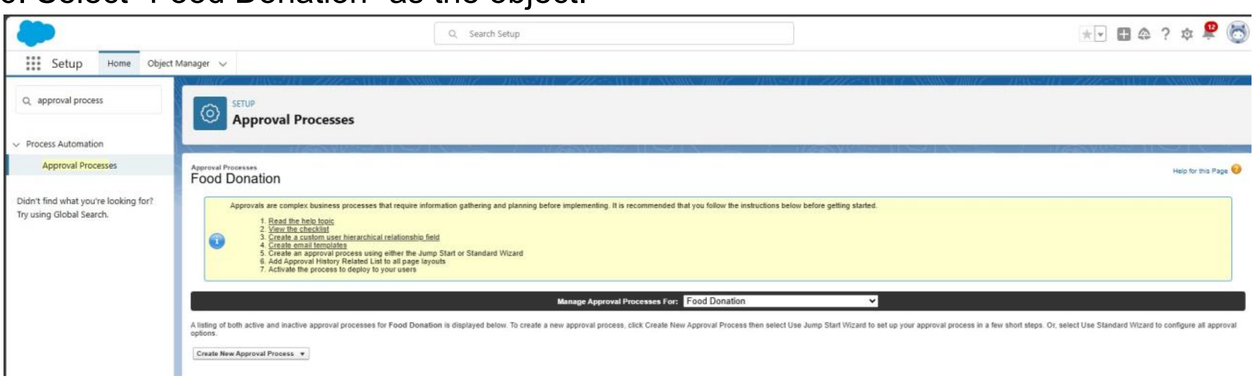
- Object: Food Donations
- Rule Type: Based on criteria
- Criteria: Status = Approved
- Shared With: Volunteer, Charity Coordinator roles

Click Save.



Create Approval Process

1. Log in to Salesforce.
2. Click the gear icon (⚙) and select Setup.
3. Search "Approval Processes" in Quick Find.
4. Click "Approval Processes".
5. Click "New Approval Process".
6. Select "Food Donation" as the object.



Approval Process Details

- Label: Food Donation Approval Process.
- API Name: Food_Donation_Approval_Process.
- Description: Approval process for Food Donations.

Define Approval Criteria

1. Click "Add Criteria".
2. Select "Field" as the criteria type.
3. Choose "Status" field.
4. Set operator to "Equals".
5. Set value to "Pending Approval".

6.Next

7.select fields to display-Food DonationName
Owner
Name
Quantity
Status 8.Specify
initial Submitters: and click on save

- Charity Coordinator approval.

Choose your Food Donation Approval Process.

Add Step:

In the Approval Process page, find the Steps section.

Click Add Step.

Configure Charity Coordinator Approval Step:

Step Label: Charity Coordinator Approval

Step Description: Approval by Charity Coordinator Specify Step Criteria:

Criteria Type: Field

Field: Status

Operator: Equals

Value: Pending

Select Assigned Approver:

Choose Approver: Automatically assign to approver(s)

Assigned Approver: Bob Jonson

Click Save.

Admin Approval

In the Approval Process page, find the Steps section and click Add Step.

Configure Admin Approval Step:

Step Label: Admin Approval

Step Description: Final approval by Admin

Specify Step Criteria:

Criteria Type: Field

Field: Status

Operator: Equals

Value: Pending

Select Assigned Approver:
Choose Approver: Automatically assign to approver(s)

Assigned Approver: Jhon Deo

Notification Template:

Select or create a notification template to notify the Admin.

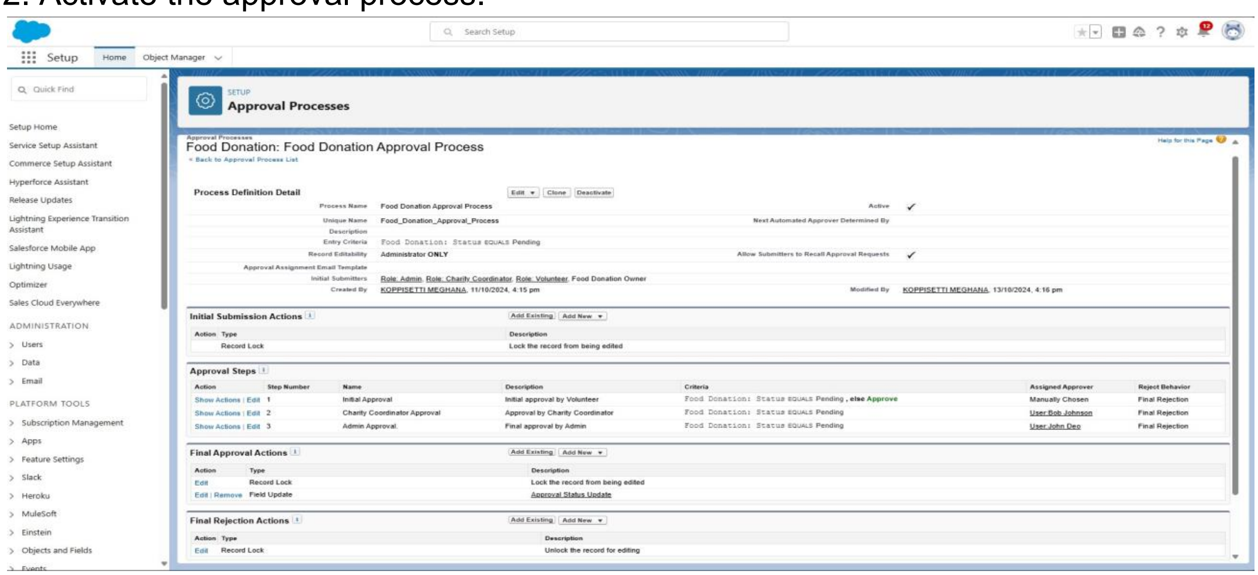
Save the Step:

Click Save.

Step 5: Configure Approval Actions

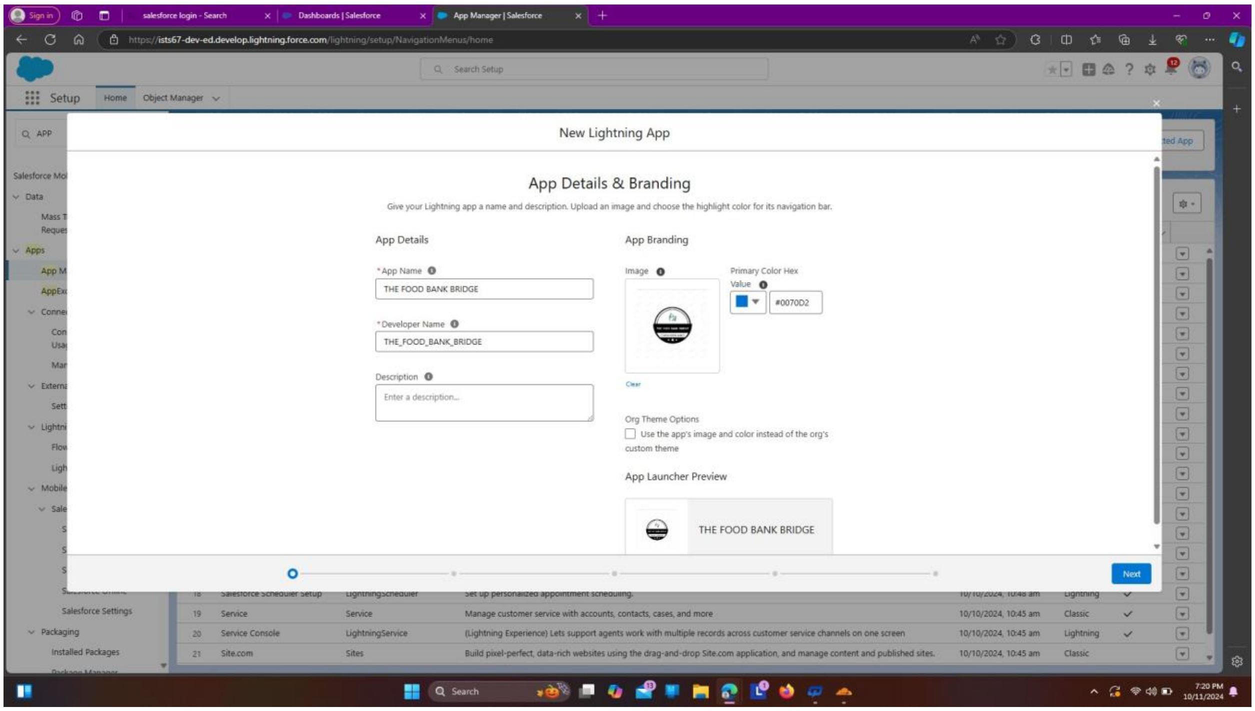
1. Click "Add Action".
2. Action Type: Update Field.
3. Field: Status.
4. Value: Approved (or Rejected).

Step 6: Activate Approval Process
1. Click "Save".
2. Activate the approval process.

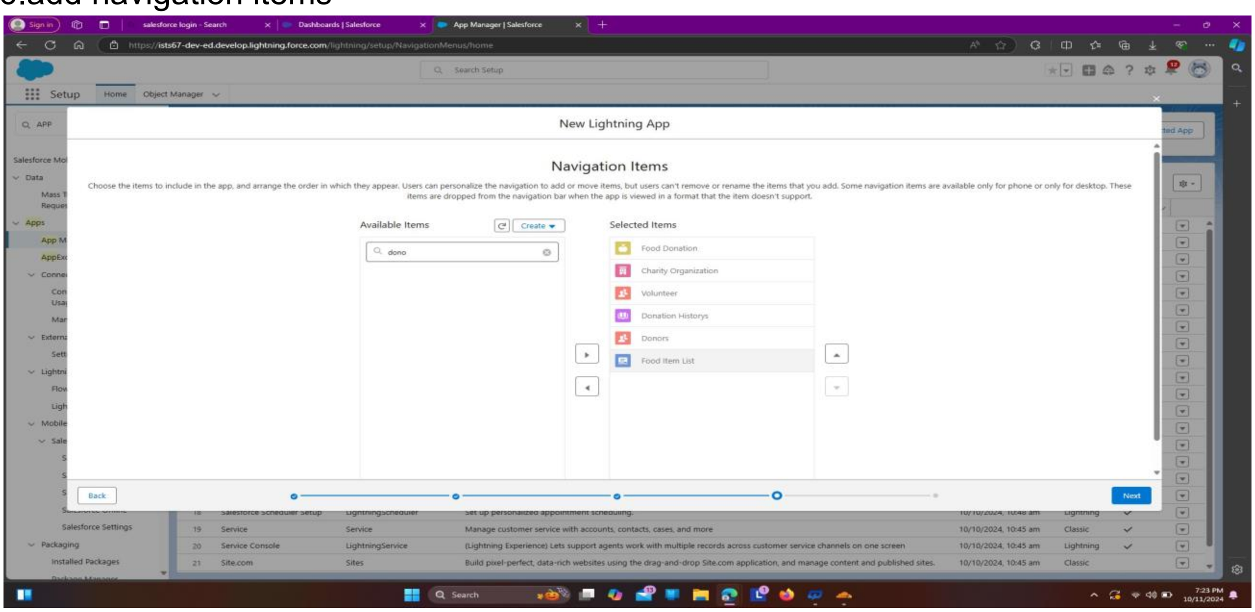


Creating lightning app:

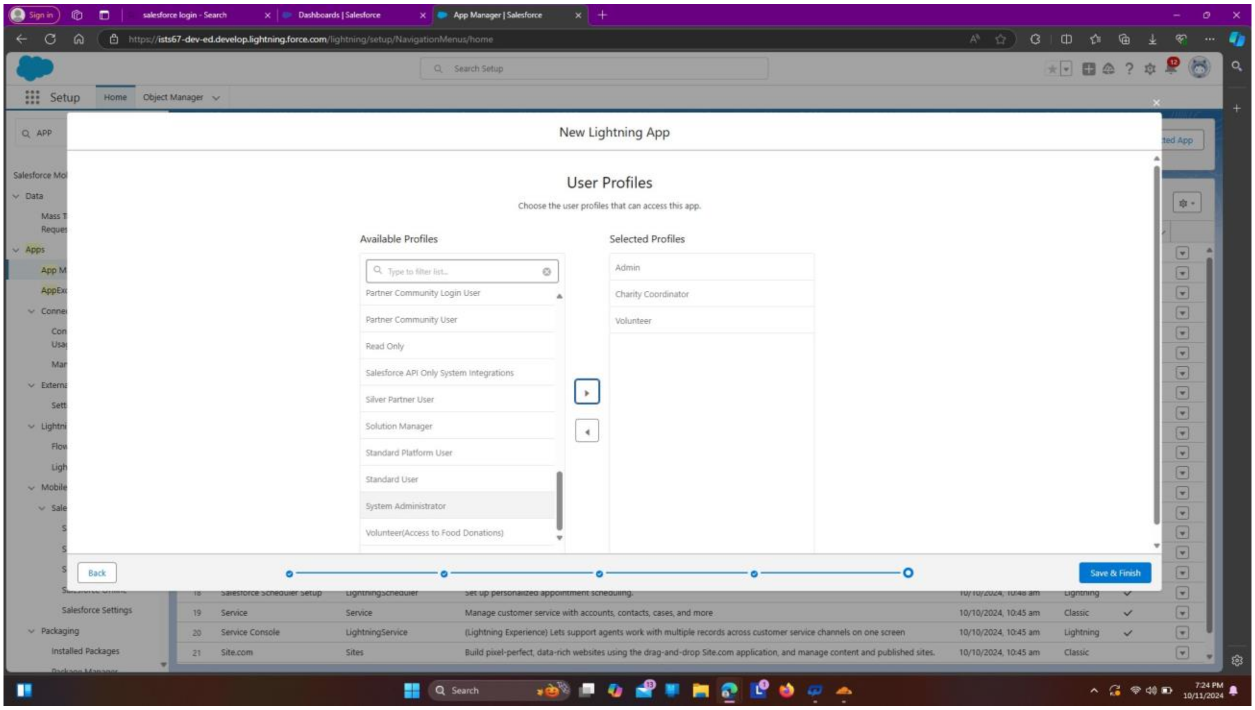
1.Navigate to setup
2.In the quick find box -Search for app manager
3.New Lightning App:
4.Filt the details



5.Click on next.
6.add navigation items



7.choose the user profiles
8.save&Finesh



Creation of DashBoard:

1.Navigate to appLauncher
2.search for application which you created:THE FOOD BANK BRIDGE
3.Click on New Folder.

Folder Label : Custom Dashboards

Folder Unique Name : Auto Populated

Open Custom Dashboards and click on New Dashboards
Name : Organization Details
Click on Widget and select Chart or Table
In Select Report :Select Food Donations and Charity Oganizations
4.In Add Component:

Display As : Select Lightning Table

Component Theme : Select Dark (Optional)

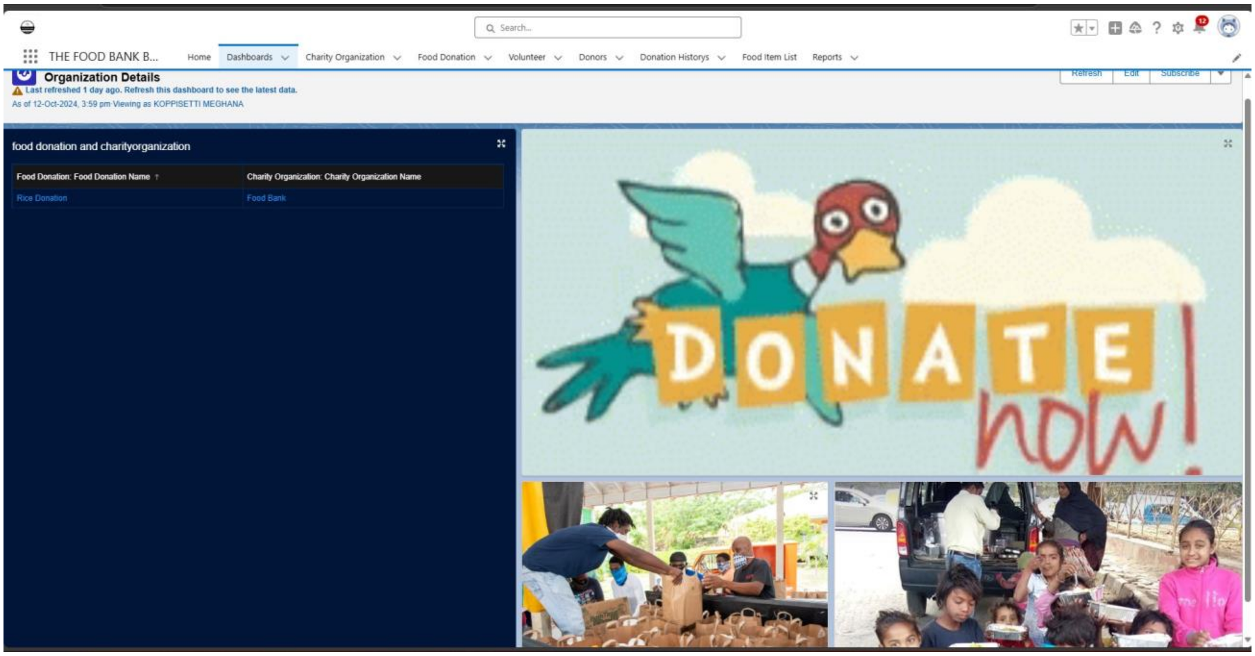
5.Save and Run the report
6.Click on Widget and select Image. Then click on Browse Files.
7.Then Select the Picture you want to upload in this Dashboard.

8Then click on Save As :

Name : Organization Details

Click on Select Folder and select Custom Dashboards

9.Click on Select Folder and then Save.



Conclusion:

The application is designed to efficiently manage and distribute surplus food to those in need through a structured and automated system.

Ultimately, this application provides an effective platform for managing leftover food donations, ensuring timely delivery to those in need, optimizing volunteer engagement, and streamlining charity organization.