

To Supply Leftover Food to Poor

By

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Project Abstract

Introduction:

This project involves the development of application on the Salesforce platform tailored for to Supply Leftover Food to Poor. The application will also enable real-time tracking of donations, automated volunteer assignments, and comprehensive reporting on the project's overall impact. By leveraging Salesforce's robust CRM capabilities, this solution will be able to scale and adapt to different regions, facilitating the transfer of food from suppliers to recipients with minimal waste. Through efficient management, automation, and real-time communication, Food for All will bring together various stakeholders—donors, volunteers, and recipients—in a collaborative effort to address food wastage and hunger at a community level.

Objective:

The objective of this project is to build a Salesforce application to manage the supply of leftover food from restaurants, grocery stores, and events to the poor and homeless in an efficient, organized manner. This system will help track food donations, volunteers, and the distribution process to ensure timely delivery.

Key Features:

- **Food Donation Management:** Capture details of donated food, including type, quantity, pickup time, and expiration date.
- **Donor Management:** Maintain a database of food suppliers (restaurants, grocery stores, events).
- **Volunteer Management:** Track volunteers who help with food collection and distribution.
- **Recipient Management:** Create a database of locations (homeless shelters, charities) where food can be delivered.
- **Delivery Tracking:** Keep track of the food distribution process to ensure donations are delivered on time and not wasted

Conclusion:

By leveraging the Salesforce platform, the project successfully established a streamlined and transparent system for managing surplus food donations. Through efficient coordination with volunteers and timely delivery to beneficiaries, the project effectively addressed food insecurity while maximizing the utilization of available resources.

INDEX Page

Topics
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Page

Introduction to Salesforce:
1.Creating Developer Account

6

2.Account Activation	7-9
Object:	
3.Create Venue Object	10
4.Create Drop-Off Point Object	11
5.Create Task Object	12
6.Create Volunteer Object	13
7.Create Execution Details Object	14
Tabs:	
8.Creating A Custom Tab	15
9.Creating Remaining Tabs	16
The Lightning App:	
10.Create a Lightning App	17-19
Fields:	
11.Creation of Relationship fields in objects	20-22
12.Creation of fields for the Venue object	23-24
13.Creation of fields for the Drop-Off point object	25-28
14.Creation of fields for the Task object	29-32
15.Creation of fields for the Volunteer object	33-35
16.Creation of fields for the Execution Details object	36
Flows:	
17. Create Flow To Create A Record In Venue Object	37-39
Trigger	
18.Create a Trigger	40
19.Trigger Code	41
Profiles:	
20.NGO's Profile	42
Creation Of Users	
21.Creation of User1	43
22.Creation of User2,User3	44
Public Groups	
23.Creation of Public Group 1	45
24.Creation of Public Group 2	46
Report Types:	
25.Creation Of Report Types	47
Reports:	
26.Creation of Report on Venue with DropOff with Volunteer	48
27.Creation of Report on Volunteers with Execution Details and Tasks	49
Dashboards:	
28.Creation of Report on Volunteers with Execution Details and Tasks	50
29.Adding Volunteer Task Report to the Dashboard	51
30.Adding a Picture to the Dashboard (Optional)	52
Sharing Rules:	
31.Creation of sharing rules	53-54
Home Page:	
32.Creation Of Home Page	55-56

INTRODUCTION

In today's world, food waste and hunger are two pressing issues that often coexist. While millions of tons of food are discarded daily by restaurants, grocery stores, and events, millions of people around the world still face food insecurity. This project, titled "Food for All", aims to bridge that gap by leveraging Salesforce technology to create an efficient, scalable platform that connects food donors with recipients in need.

Food for All is a Salesforce-based solution designed to streamline the process of collecting and distributing leftover food. It will empower restaurants, grocery stores, and other food providers to easily donate surplus food, while organizing volunteers and charitable organizations to collect and deliver the food to those in need. This platform ensures timely deliveries, reduces food waste, and improves food accessibility for the poor and homeless.

The application will also enable real-time tracking of donations, automated volunteer assignments, and comprehensive reporting on the project's overall impact. By leveraging Salesforce's robust CRM capabilities, this solution will be able to scale and adapt to different regions, facilitating the transfer of food from suppliers to recipients with minimal waste. Through efficient management, automation, and real-time communication, Food for All will bring together various stakeholders—donors, volunteers, and recipients—in a collaborative effort to address food wastage and hunger at a community level.

Key Features

- **Food Donation Management:** Capture details of donated food, including type, quantity, pickup time, and expiration date.
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- **Delivery Tracking:** Keep track of the food distribution process to ensure donations are delivered on time and not wasted

Task 1:

Creating Developer Account

1. Go to <https://developer.salesforce.com/signup>
2. On the sign up form, enter the following details :

Student - Skill Wallet x Developer Edition Signup | Sal x +

← → ↻ 🔍 developer.salesforce.com/signup ☆ 📁 S ⋮

Sign up for your Salesforce Developer Edition
A Salesforce Platform environment for free.

Complete the form to get access to the Salesforce Developer Edition.

First Name*
Shalini Reddy

Last Name*
Kanukuntla

Email*
kanukuntlashalini@gmail.com

Role*
Developer

Company*
GNITC

Build enterprise-quality apps fast to bring your ideas to life

- Build apps fast with drag and drop tools
- Customize your data model with clicks
- Go further with Apex code
- Integrate with anything using powerful APIs
- Stay protected with enterprise-grade security
- Customize UI with clicks or any leading-edge web

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Search

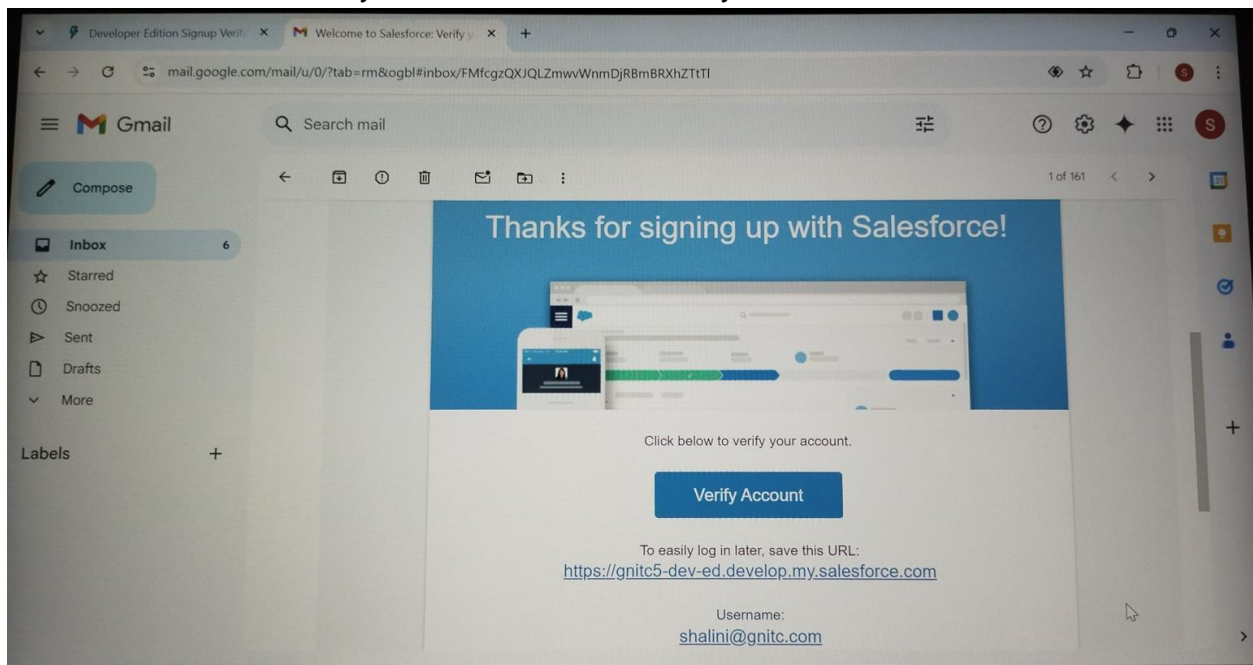
ENG IN 11:34 25-09-2024

- 1.First name & Last name
 - 2.Email
 - 3.Role : Developer
 - 4.Company : College or Company Name
 - 5.County : India
 - 6.Postal Code : pin code
 - 7.Username : should be a combination of your name and company
- This need not be an actual email id, you can give anything in the format :
username@organization.com
- Click on sign me up after filling these.

Task 2:

Account Activation:

1. 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.



- 2.Click on Verify Account
- 3.Give a password and answer a security question and click on change password.

Change Your Password

Enter a new password for **lead@sb.oom**.

Make sure to include at least:

✓ 8 characters

✓ 1 letter

✓ 1 number

* New Password

..... Good

* Confirm New Password

..... Match

Security Question

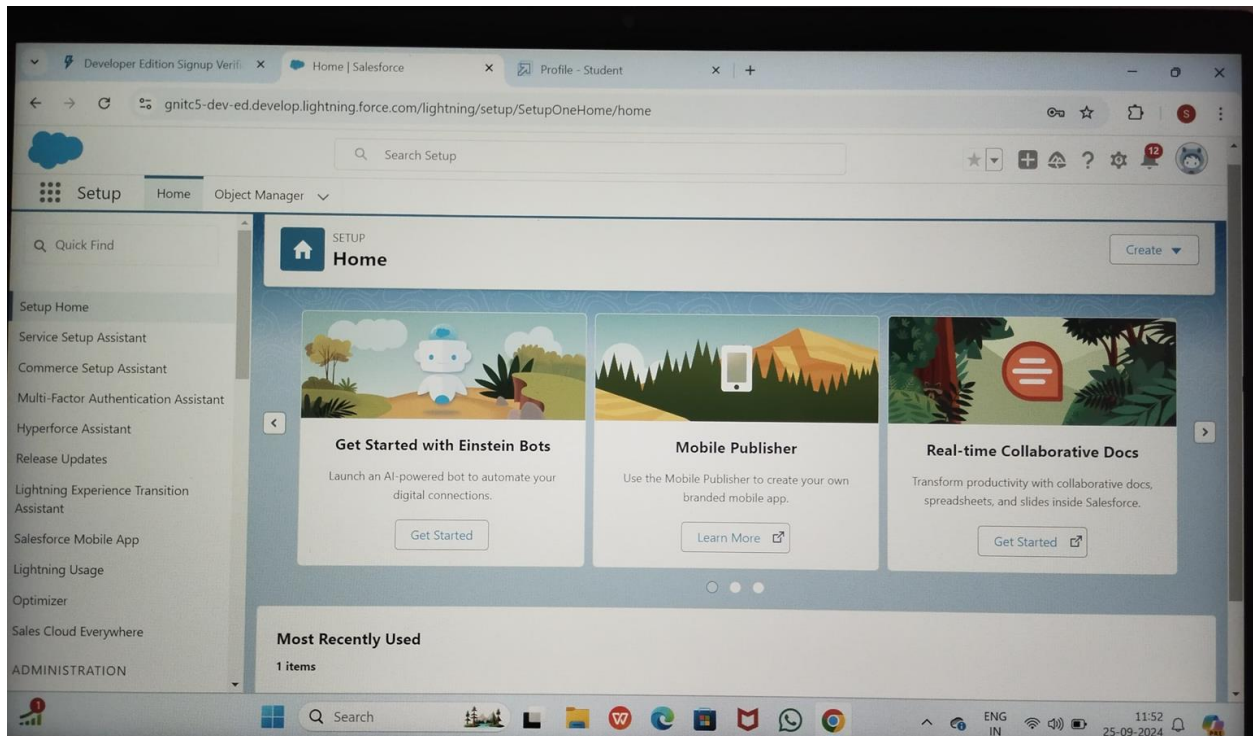
▼ In what city were you born?

* Answer

asdfghjkl

Change Password

4. Then you will redirect to your salesforce setup page.

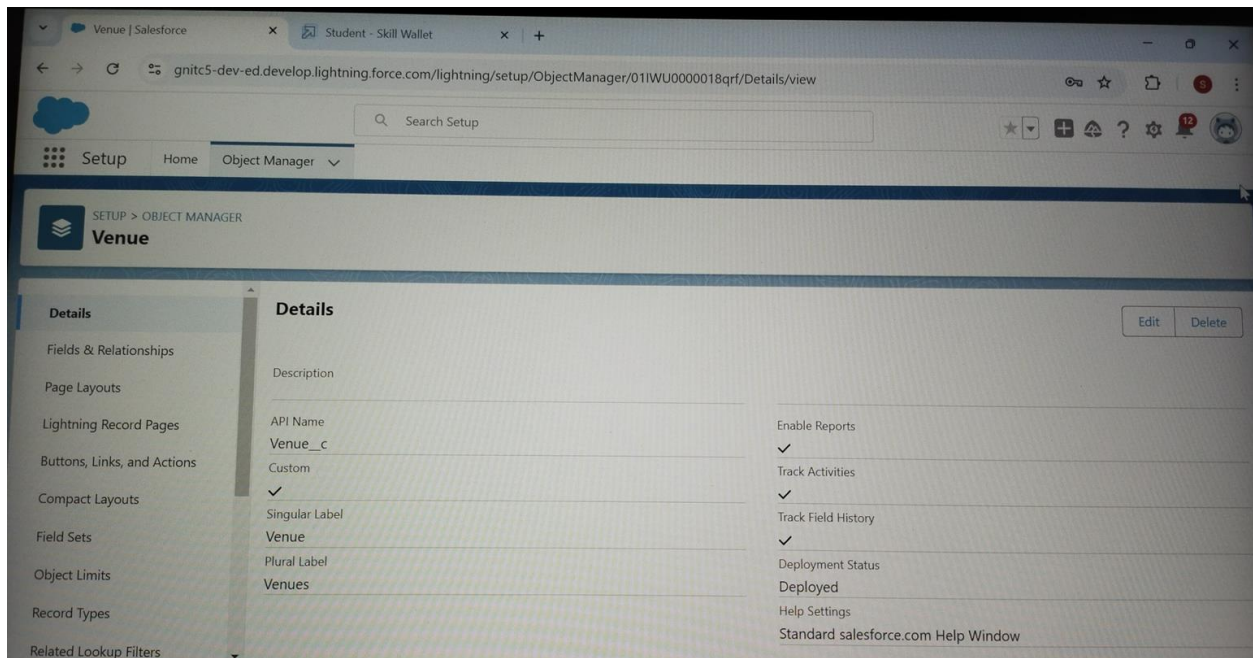


Task 3:

Create Venue Object

To create an object:

1. From the setup page >> Click on Object Manager >> Click on Create >>Click on Custom Object.
- 2.Enter the label name >> Venue
3. Plural label name >> Venues
- 4.Enter Record Name Label and Format
 - Record Name >> Venue Name
 - Data Type >> Text
- 5.Click on Allow reports and Track Field History,Allow Activities.
- 6.Allow search >> Save.



Task 4:

Create Drop-Off Point Object

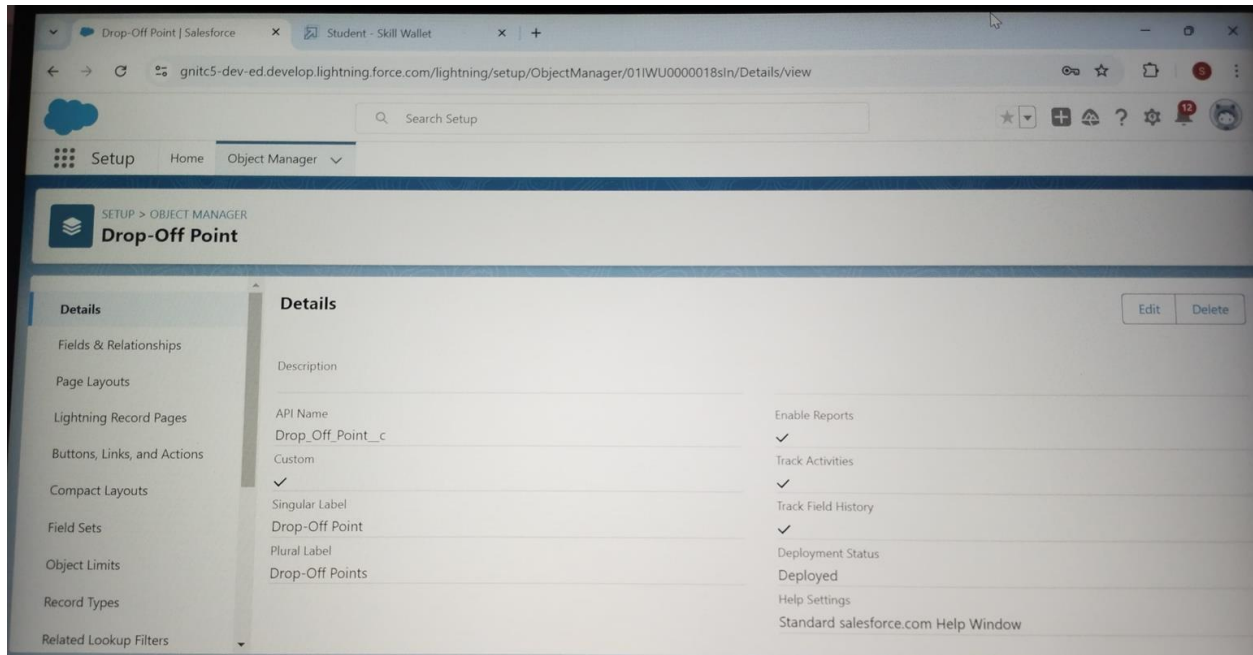
To create an object:

1. From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.
- 2.Enter the label name >> Drop-Off Point
- 3.Plural label name>> Drop-Off Points
- 4.Enter Record Name Label and Format

- Record Name >> Drop-Off point Name
- Data Type >> Text

5. Click on Allow reports and Track Field History, Allow Activities

6. Allow search >> Save.

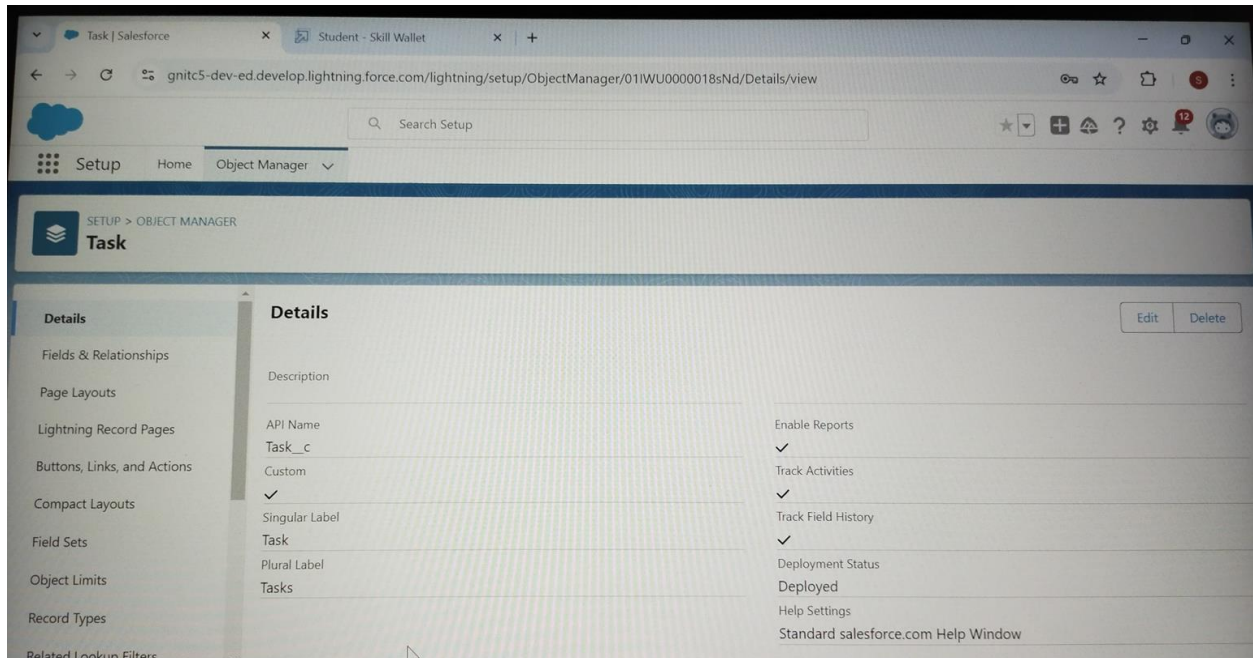


Task 5:

Create Task Object

To create an object:

1. From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.
2. Enter the label name >> Task
3. Plural label name >> Tasks
4. Enter Record Name Label and Format
 - Record Name >> Task Name
 - Data Type >> Text
5. Click on Allow reports and Track Field History, Allow Activities
6. Allow search >> Save.

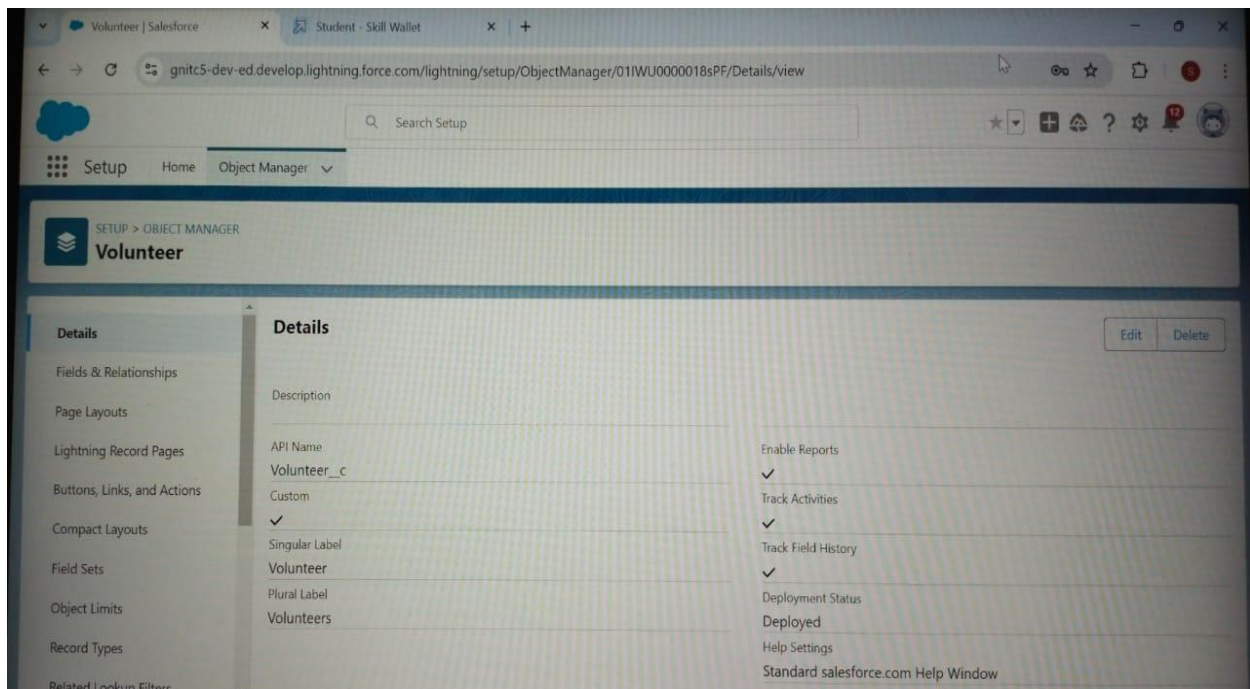


Task 6:

Create Volunteer Object

To create an object:

1. From the setup page >> Click on Object Manager>> Click on Create >> Click on Custom Object.
2. Enter the label name>> Volunteer
3. Plural label name>> Volunteers
4. Enter Record Name Label and Format
 - Name >> Volunteer Name
 - Data Type >> Text
5. Click on Allow reports and Track Field History, Allow Activities
6. Allow search >> Save.



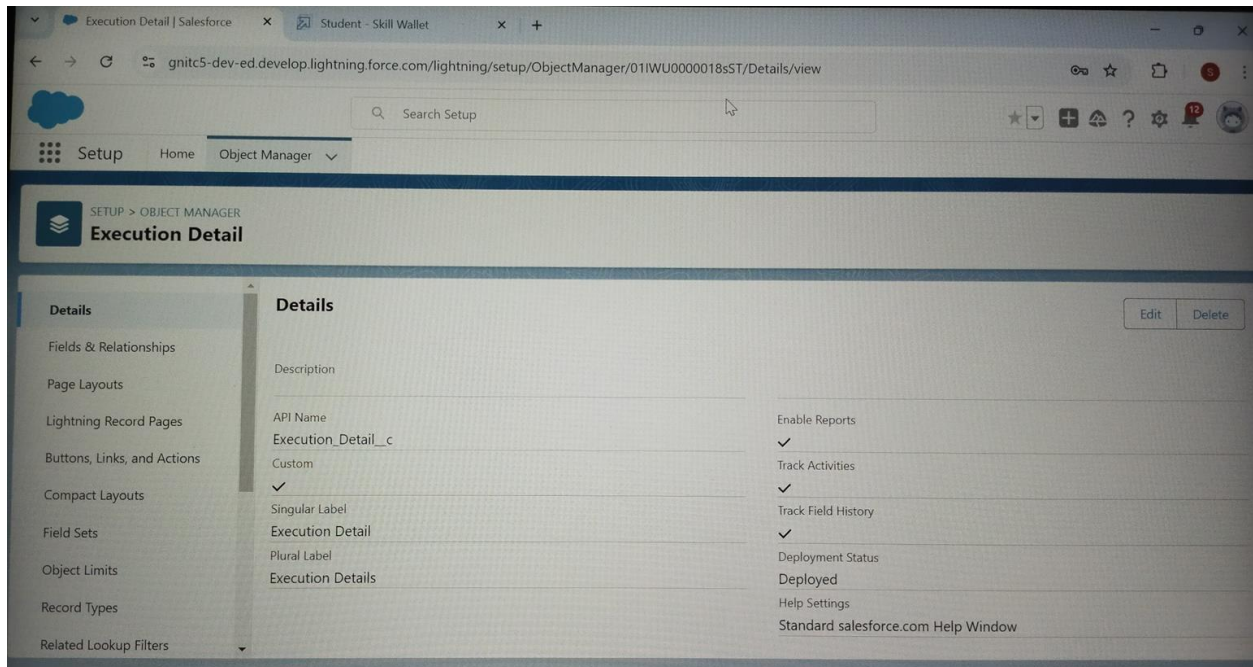
Task 7:

Create Execution Details Object

To create an object:

1. From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.
2. Enter the label name >> Execution Detail
3. Plural label name >> Execution Details
4. Enter Record Name Label and Format
 - Record Name >> Execution Detail Name
 - Data Type >> Text
5. Click on Allow reports and Track Field History, Allow Activities

6.Allow search >> Save.

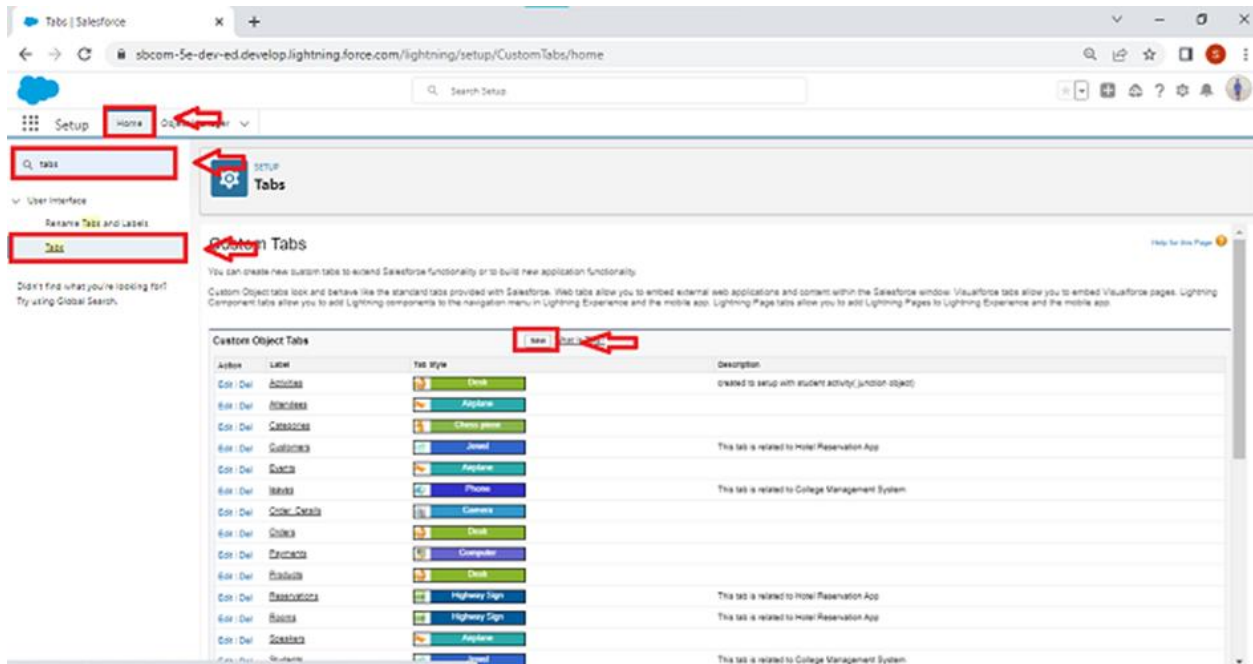


Task 8:

Creating A Custom Tab

To create a Tab:(Venue)

1. Go to setup page >> type Tabs in Quick Find bar >> click on tabs >> New (under custom object tab)

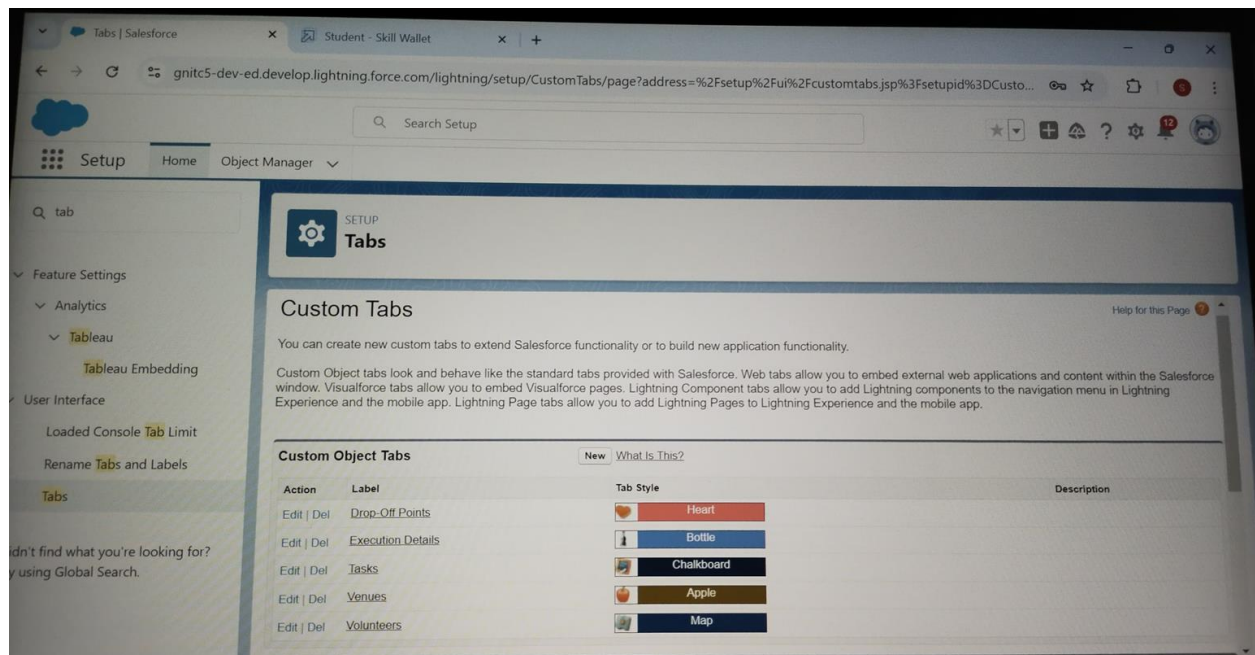


2. Select Object(Venue) >> Select the tab style >> Next (Add to profiles page) keep it as default >> Next (Add to Custom App) uncheck the include tab .
3. Make sure that the Append tab to users' existing personal customizations is checked.
4. Click save

Task 9:

Creating Remaining Tabs

1. Now create the Tabs for the remaining Objects, they are "Drop-Off Point, Task, Volunteer, Execution Details".
2. Follow the same steps as mentioned in Activity -1 .

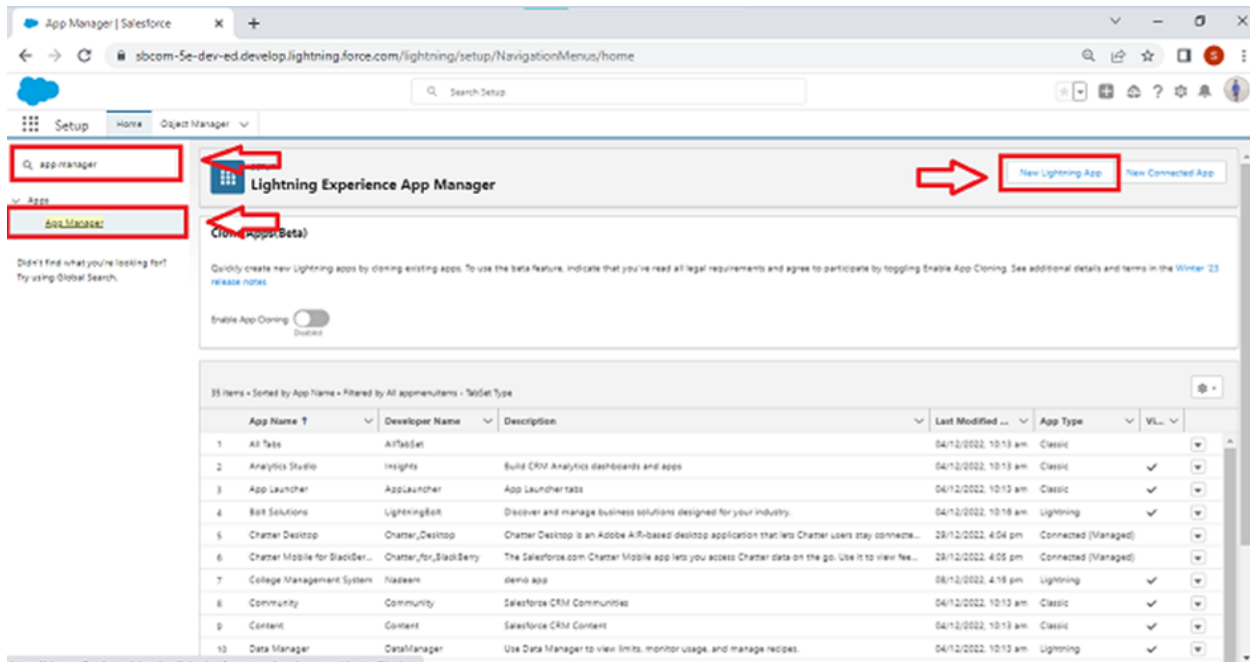


Task 10:

Create a Lightning App

To create a lightning app page:

1. Go to setup page >> search “app manager” in quick find >> select “app manager” >> click on New lightning App.



2. Fill the app name in app details and branding as follow

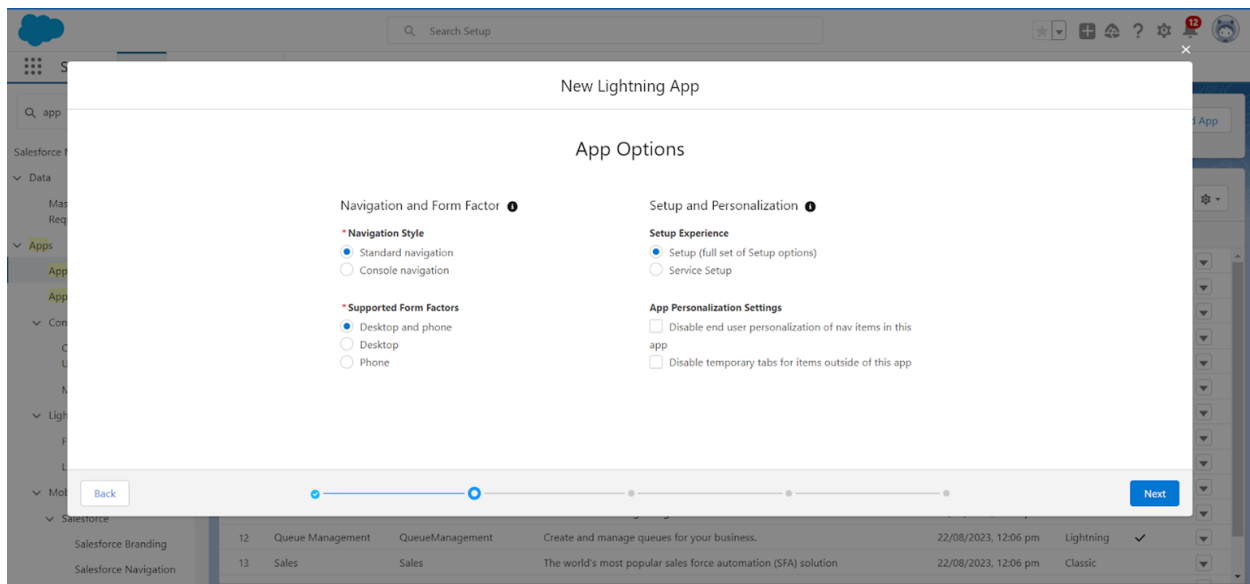
App Name : FoodConnect

Developer Name : This will auto populated

Image : optional (if you want to give any image you can otherwise not mandatory)

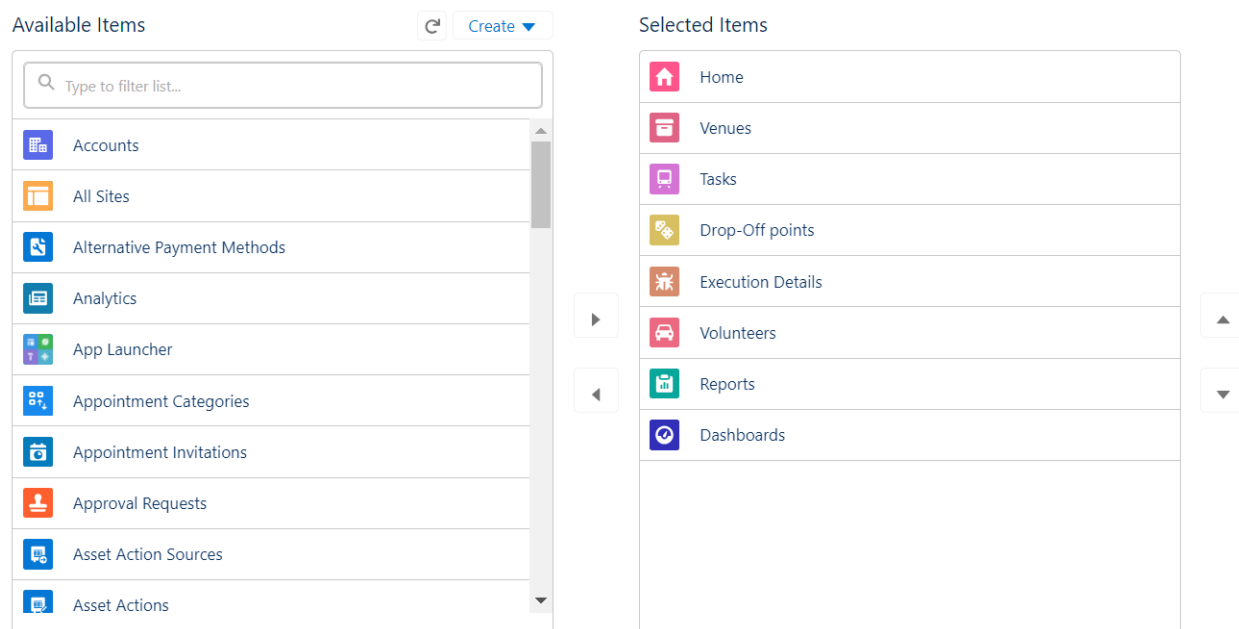
Primary color hex value : keep this default.

3. Then click Next >> (App option page) Set Navigation Style as Standard Navigation >> Next.



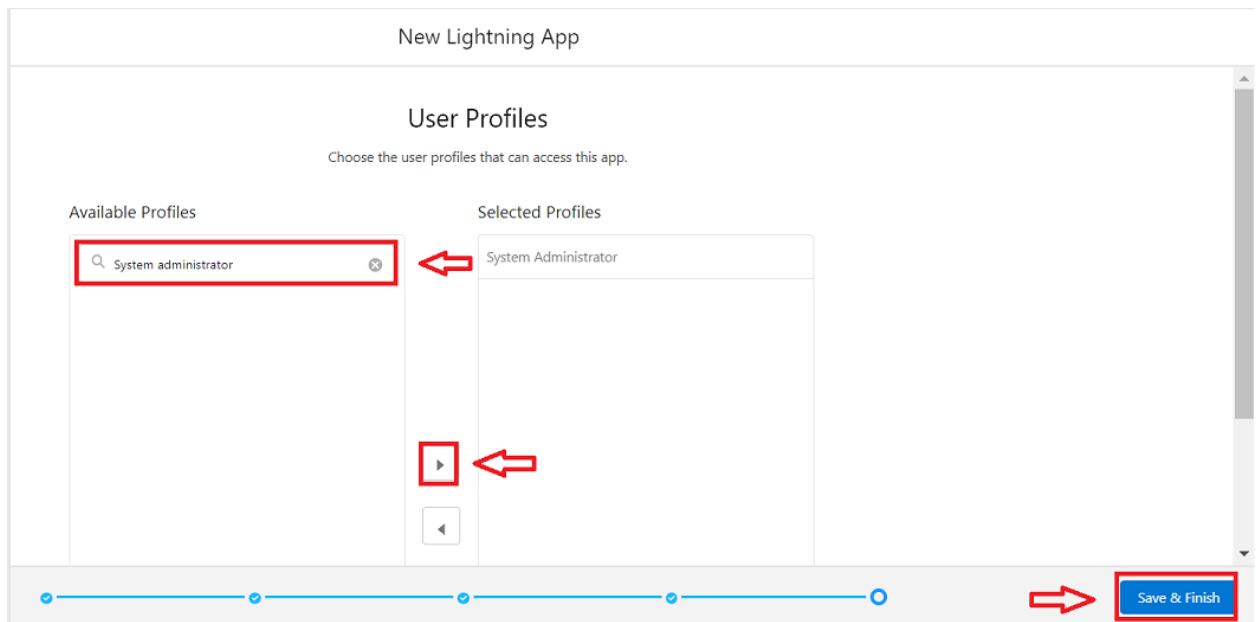
4. (Utility Items) keep it as default >> Next.

5. To Add Navigation Items:



Search for the item in the (Home, Venue, Drop-Off Point, Task, Volunteer, Execution Details, Reports) from the search bar and move it using the arrow button >> Next >> Next.

6. To Add User Profiles:



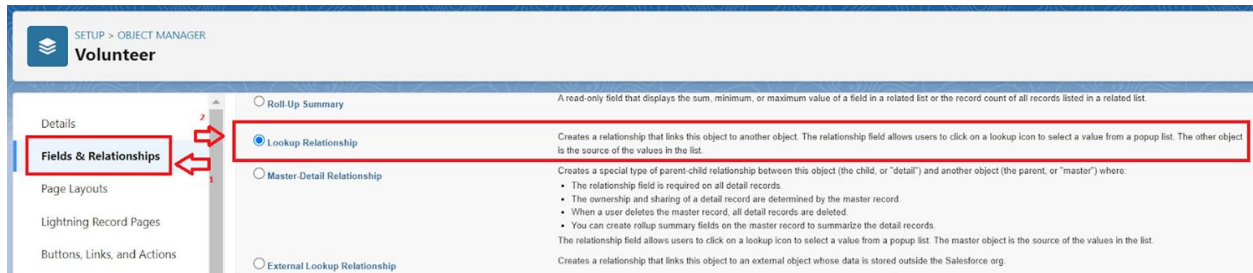
Search profiles (System administrator) in the search bar >> click on the arrow button >> save & finish.

Task 11:

Creation of Relationship fields in objects

Creation of Lookup Relationship Field on Volunteer Object :

1. Go to setup >> click on Object Manager >> type object name(Volunteer) in the search bar >> click on the object.



2. Now click on "Fields & Relationships" >> New
3. Select Master Detail relationship
4. Select the related object "Drop-Off point" and click next.



5.Field Name : Drop_Off_point

6.Field label : Auto generated

7.Next >> Next >> Save.

Creation of Master Detail Relationship Field on Execution Details Object :

8. Go to setup >> click on Object Manager >> type object name(Execution Details) in the search bar >> click on the object.
9. Now click on "Fields & Relationships" >> New
10. Select Master Detail relationship
11. Select the related object "Volunteer" and click next.
12. Field Name : Volunteer
13. Field label : Auto generated
14. Next >> Next >> Save.

Creation of Master Detail Relationship Field on Execution Details Object :

15. Go to setup >> click on Object Manager >> type object name(Execution Details) in the search bar >> click on the object.
16. Now click on "Fields & Relationships" >> New
17. Select Master Detail relationship
18. Select the related object "Task" and click next.
19. Field Name : Task
20. Field label : Auto generated
21. Next >> Next >> Save.

Creation of Lookup Relationship Field on Drop-Off Point Object :

22. Go to setup >> click on Object Manager >> type object name(Task) in the search bar >> click on the object.
23. Now click on "Fields & Relationships" >> New
24. Select Lookup relationship
25. Select the related object "Drop-Off Point" and click next.
26. Field Name : Venue
27. Field label : Venue__c
28. Next >> Next >> Save.

Creation of Lookup Relationship Field on Task Object :

29. Go to setup>> click on Object Manager >> type object name(Task) in the search bar >> click on the object.
30. Now click on "Fields & Relationships" >> New
31. Select Lookup relationship
32. Select the related object "Venue" and click next.
33. Field Name : Sponsored By
34. Field label : Auto generated
35. Next >> Next >> Save.

Creation of Lookup Relationship Field on Task Object :

36. Go to setup>> click on Object Manager >> type object name(Task) in the search bar >> click on the object.
37. Now click on "Fields & Relationships" >> New
38. Select Lookup relationship
39. Select the related object "Drop-Off point" and click next.
40. Field Name : Drop-Off point
41. Field label : Auto generated
42. Next >> Next >> Save.

Task 12:

Creation of fields for the Venue object

1. Go to setup>> click on Object Manager >> type object name(Venue) in search bar >> click on the object.

2. Now click on "Fields & Relationships" >> New
3. Select Data type as a "Email" and Click on Next
4. Fill the Above as following:
 - Field Label : Contact Email
 - Field Name : Contact Email
 - Click on required check box
 - Click on Next >> Next >> Save and new.

To create another fields in an object:

5. Go to setup >> click on Object Manager >> type object name(Venue) in search bar >> click on the object.
6. Now click on "Fields & Relationships" >> New
7. Select Data type as a "Phone" and Click on Next
8. Fill the Above as following:
 - Field Label : Contact Phone
 - Field Name : Contact Phone
 - Click on required check box
 - Click on Next >> Next >> Save and new.

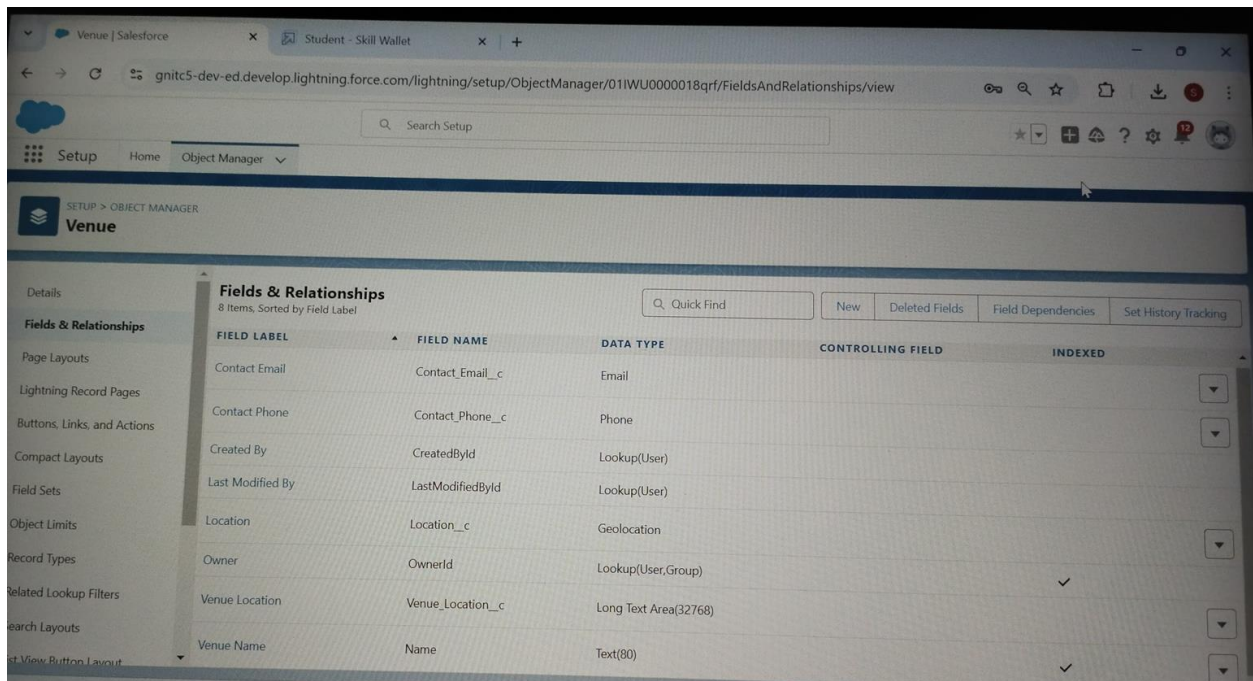
To create another fields in an object:

1. Go to setup >> click on Object Manager >> type object name(Venue) in search bar >> click on the object.
2. Now click on "Fields & Relationships" >> New
3. Select Data type as a "Geolocation" and Click on Next
4. Fill the Above as following:
 - Field Label : Location
 - Decimal Places : 4
 - Field Name : Location
 - Description : Enter the Geolocation of your Venue
 - Click on Next >> Next >> Save and new.

To create another fields in an object:

9. Go to setup >> click on Object Manager >> type object name(Venue) in search bar >> click on the object.
10. Now click on "Fields & Relationships" >> New
11. Select Data type as a "Long Text Area" and Click on Next
12. Fill the Above as following:
 - Field Label : Venue Location

- Field Name : Venue_Location
- Click on Next >> Next >> Save and new.



Task 13:

Creation of fields for the Drop-Off point object

Go to setup >> click on Object Manager >> type object name(Drop-Off point) in search bar >> click on the object.

2. Now click on "Fields & Relationships" >> New

3. Select Data type as a "Geolocation" and Click on Next

4. Fill the Above as following:

- Field Label : Location 2
- Field Name : gets auto generated
- Description : Enter the Geolocation of the Drop off Point

- Geolocation Options : select Decimal
- Decimal Places : 4
- Click on Next >> Next >> Save and new

To create another fields in an object:

1. Go to setup >> click on Object Manager >> type object name(Drop-Off point) in search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “Formula” and Click on Next
4. Fill the Above as following:
 - Field Label : distance calculation
 - Field Name : distance_calculation
 - Formula Return Type : Number
 - Formula Options : DISTANCE(Location_2__c , Venue__r.Location__c , 'km')
 - Click on Next >> Next >> Save and new.

Formula Options

Formula Return Type: Number

Decimal Places: 4

Enter your formula and click Check Syntax to check for errors. Click the Advanced Formula subtab to use additional fields, operators, and functions.
Example: Fahrenheit = 1.8 * Celsius__c + 32 [More Examples...](#)

Simple Formula Advanced Formula

Insert Field Insert Operator

distance calculation (Number) =
 DISTANCE(Location_2__c , Venue__r.Location__c , 'km')

To create another fields in an object:

5. Go to setup >> click on Object Manager >> type object name(Drop-Off point) in search bar >> click on the object.
6. Now click on “Fields & Relationships” >> New
7. Select Data type as a “Picklist” and Click on Next
8. Fill the Above as following:
 - Field Label : State
 - Field Name : State

- Enter values, with each value separated by a new line :

Andhra Pradesh

Arunachal Pradesh

Assam

Bihar

Chhattisgarh

Goa

Gujarat

Haryana

Himachal Pradesh

Jharkhand

Karnataka

Kerala

Maharashtra

Madhya Pradesh

Manipur

Meghalaya

Mizoram

Nagaland

Odisha

Punjab

Rajasthan

Sikkim

Tamil Nadu

Tripura

Telangana

Uttar Pradesh

Uttarakhand

West Bengal

Andaman & Nicobar (UT)

Chandigarh (UT)

Dadra & Nagar Haveli and Daman & Diu (UT)

Delhi [National Capital Territory (NCT)]

Jammu & Kashmir (UT)

Ladakh (UT)

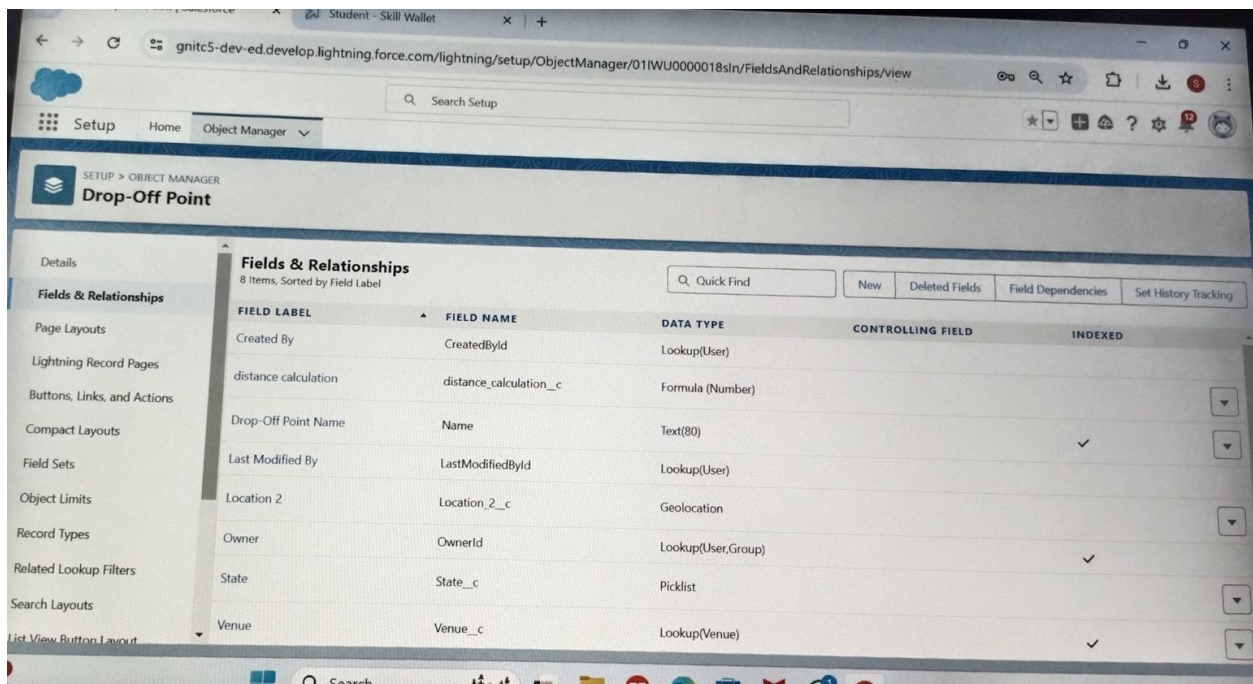
Lakshadweep (UT)

Puducherry (UT)

- Click on required check box
- Click on Next >> Next >> Save and new.

To create another fields in an object:

9. Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
10. Now click on "Fields & Relationships" >> New
11. Select Data type as a "Number" and Click on Next
12. Fill the Above as following:
 - Field Label : Distance
 - Field Name : Distance
 - Length : 14
 - Decimal Places : 4
 - Click on required check box
 - Click on Next >> Next >> Save and new.
 -



Task 14:

Creation of fields for the Task object

Go to setup>> click on Object Manager >> type object name(Task) in search bar >> click on the object.

2. Now click on "Fields & Relationships" >> New
3. Select Data type as a "Auto Number" and Click on Next
4. Fill the Above as following:

- Field Label : Task ID
- Display Format : TASK-{0}
- Starting Number : 1
- Field Name : gets auto generated
- Click on required check box
- Click on Next >> Next >> Save and new.

To create another fields in an object:

1. Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
2. Now click on "Fields & Relationships" >> New
3. Select Data type as a "Date" and Click on Next
4. Fill the Above as following:
 - Field Label : Date
 - Field Name : Date
 - Click on required check box
 - Click on Next >> Next >> Save and new.

To create another fields in an object:

5. Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
6. Now click on "Fields & Relationships" >> New
7. Select Data type as a "Picklist (Multi-Select)" and Click on Next
8. Fill the Above as following:
 - Field Label : Food Category

- Field Name : Food Category
- Enter values, with each value separated by a new line :
Veg
Non-Veg
Salad
Snack
- Click on required check box
- Click on Next >> Next >> Save and new.

To create another fields in an object:

9. Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
10. Now click on "Fields & Relationships" >> New
11. Select Data type as a "Number" and Click on Next
12. Fill the Above as following:
 - Field Label : Number of People Served
 - Field Name : Number_of_People_Served
 - Click on required check box
 - Click on Next >> Next >> Save and new.

To create another fields in an object:

13. Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
14. Now click on "Fields & Relationships" >> New
15. Select Data type as a "Text" and Click on Next
16. Fill the Above as following:
 - Field Label : Name of the Person
 - Field Name : Name_of_the_Person
 - Click on Next >> Next >> Save and new.

To create another fields in an object:

17. Go to setup>> click on Object Manager >> type object name(Task) in search bar >> click on the object.
18. Now click on "Fields & Relationships" >> New
19. Select Data type as a "Phone" and Click on Next
20. Fill the Above as following:
 - Field Label : Phone
 - Field Name : Phone
 - Click on Next >> Next>> Save and new.

To create another fields in an object:

21. Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
22. Now click on "Fields & Relation >> New
23. Select Data type as a "Pick List" and Click on Next
24. Fill the Above as following:
 - Field Label : Rating
 - Field Name : Rating
 - Enter values, with each value separated by a new line :
1
2
3
4
5
 - Click on Next >> Next >> Save and new.

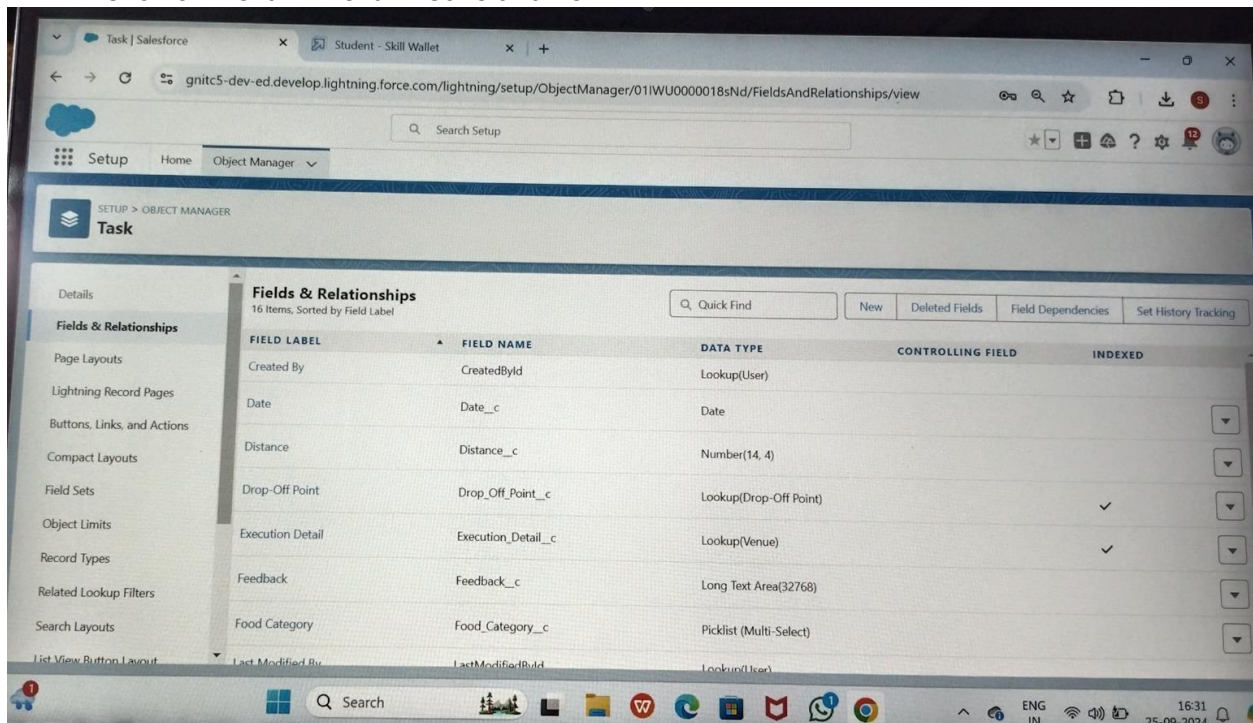
To create another fields in an object:

21. Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
22. Now click on "Fields & Relation >> New
23. Select Data type as a "Pick List" and Click on Next
24. Fill the Above as following:
 - Field Label : Rating
 - Field Name : Rating
 - Enter values, with each value separated by a new line :
1
2
3
4
5
 - Click on Next >> Next >> Save and new.

To create another fields in an object:

- 25.Go to setup >> click on Object Manager >> type object name(Task) in search bar >> click on the object.
- 26.Now click on "Fields & Relationships" >> New
- 27.Select Data type as a "Long Text Area" and Click on Next
- 28.Fill the Above as following:
 - Field Label : Feedback

- Field Name : Feedback
- Click on Next >> Next >> Save and new.



Task 15:

Creation of fields for the Volunteer object

1. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
2. Now click on "Fields & Relationships" >> New
3. Select Data type as a "Auto Number" and Click on Next
4. Fill the Above as following:
 - Field Label : Volunteer ID

- Field Name : gets auto generated
- Click on required check box
- Click on Next >> Next >> Save and new.
- Click on Next >> Next >> Save and new.

To create another fields in an object:

1. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
2. Now click on "Fields & Relationships" >> New
3. Select Data type as a "Picklist" and Click on Next
4. Fill the Above as following:
 - Field Label : Gender
 - Field Name : Gender
 - Enter values, with each value separated by a new line :
Female
Male
 - Click on Next >> Next >> Save and new.

To create another fields in an object:

5. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
6. Now click on "Fields & Relationships" >> New
7. Select Data type as a "Date" and Click on Next
8. Fill the Above as following:
 - Field Label : Available On
 - Field Name : Available On
 - Click on required check box
 - Click on Next >> Next >> Save and new.

To create another fields in an object:

9. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
10. Now click on "Fields & Relationships" >> New
11. Select Data type as a "Number" and Click on Next
12. Fill the Above as following:
 - Field Label : Age
 - Field Name : Age
 - Click on required check box
 - Click on Next >> Next>> Save and new.

To create another fields in an object:

13. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
14. Now click on "Fields & Relationships" >> New
15. Select Data type as a "Email" and Click on Next
16. Fill the Above as following:
 - Field Label : Email
 - Field Name : Email
 - Click on required check box
 - Click on Next>> Next >> Save and new.

To create another fields in an object:

17. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
18. Now click on "Fields & Relationships" >> New
19. Select Data type as a "Number" and Click on Next
20. Fill the Above as following:
 - Field Label : Contact Number
 - Field Name : Contact_Number
 - Click on required check box
 - Click on Next >> Next >> Save and new.

To create another fields in an object:

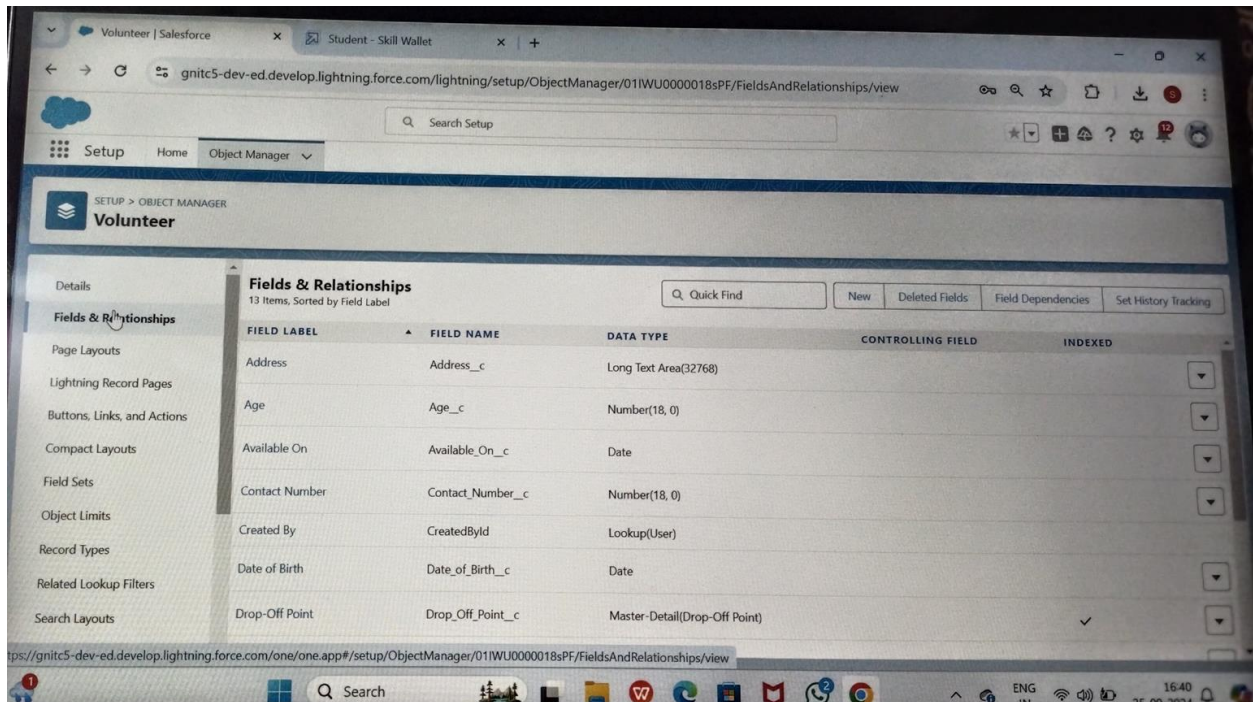
21. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
22. Now click on "Fields & Relationships" >> New
23. Select Data type as a "Text Area (Long)" and Click on Next
24. Fill the Above as following:
 - Field Label : Address
 - Field Name : Address
 - Click on Next >> Next >> Save and new.

To create another fields in an object:

25. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
26. Now click on "Fields & Relationships" >> New
27. Select Data type as a "Date" and Click on Next
28. Fill the Above as following:

- Field Label : Date of Birth
- Field Name : Date_of_Birth

Click on Next >> Next >> Save and New



Task 16:

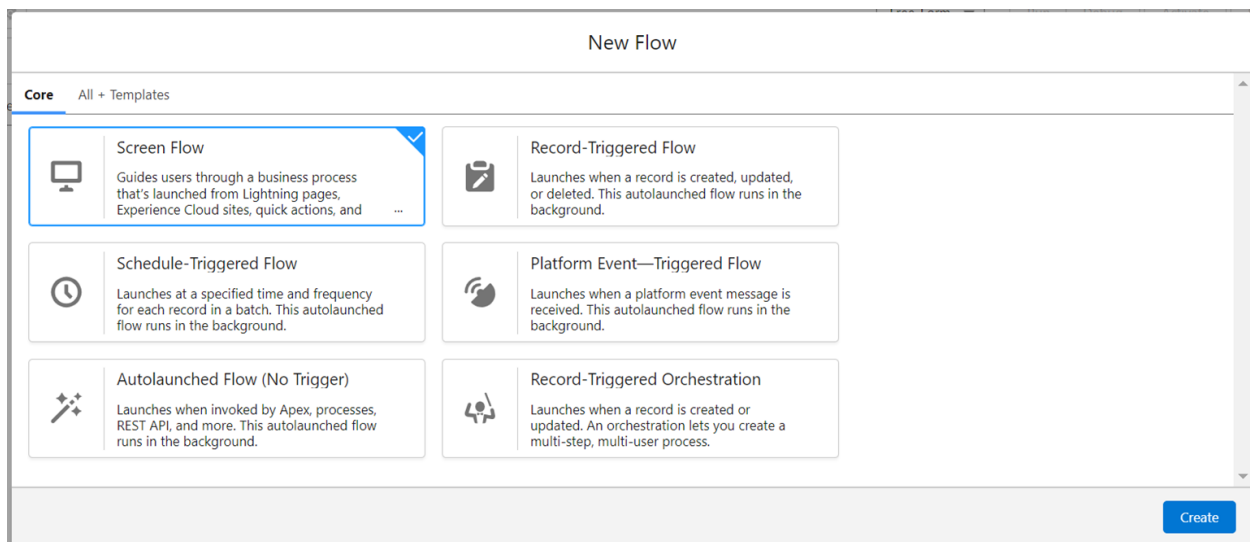
Creation of fields for the Execution Details object

1. Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.
2. Now click on "Fields & Relationships" >> New
3. Select Data type as a "Auto Number" and Click on Next
4. Fill the Above as following:
 - Field Label : Execution ID
 - Field Name : gets auto generated
 - Click on required check box
 - Click on Next >> Next >> Save and new.

Task 17:

Create Flow To Create A Record In Venue Object

1. Go to setup >> type Flow in quick find box >> Click on the Flow and Select the New Flow.
2. Select the Screen flow. Click on create



3. Click on the '+' icon in between start and end, and click on screen element.
4. Under the Screen Properties:
Label : Venue Details
API Name : Venue_Details
5. Now lets add components in this flow. Click on Text Component and name it as:

Label : Venue Name

API Name : Venue_Name

6. Click on Email Component and name it as:

Label : Email

API Name : Contact_Email

7. Click on Phone Component and name it as:

Label : Phone

API Name : Contact_Phone

8. Click on Text Component and name it as:

Label : Venue Location

API Name : Venue_Location

9. Click on Number Component and name it as:

Label : Latitude

API Name : Latitude

10. Click on Number Component and name it as:

Label : longitude

API Name : longitude

11. Next click on Done. This would like below

12. Click on the '+' icon in between Venue details and end, and click on create record element.

13. Now label it as

Label : Create Venue Record

API Name : Create_Venue_Record

How Many Records to Create : One

How to Set the Record Fields : Use separate resources, and literal values

Object : Venue

Set Field Values for the Venue : Click on 'Add Field' 5 times

Field : Value = Contact_Email__c : {!Contact_Email.value}

Field : Value = Contact_Phone__c : {!Contact_Phone.value}

Field : Value = Name : {!Venue_Name}

Field : Value = Venue_Location__c : {!location}

Field : Value = Location__Latitude__s : {!latitude}

Field : Value = Location__Longitude__s : {!longitude}

14. This would look like:

Create a Record of This Object

* Object

Venue

Set Field Values for the Venue

Field	Value
Contact_Email__c	<div>← <div>Aa Contact_Email > Value X</div></div>
Contact_Phone__c	<div>← <div>Aa Contact_Phone > Value X</div></div>
Name	<div>← <div>Aa Venue_Name X</div></div>
Venue_Location__c	<div>← <div>Aa location X</div></div>

15. Click on Save as:

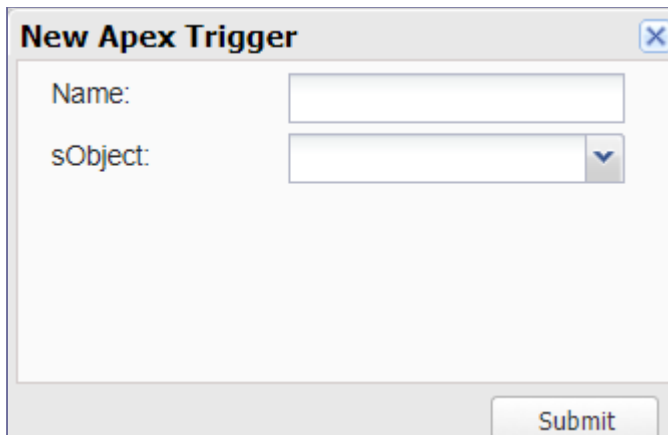
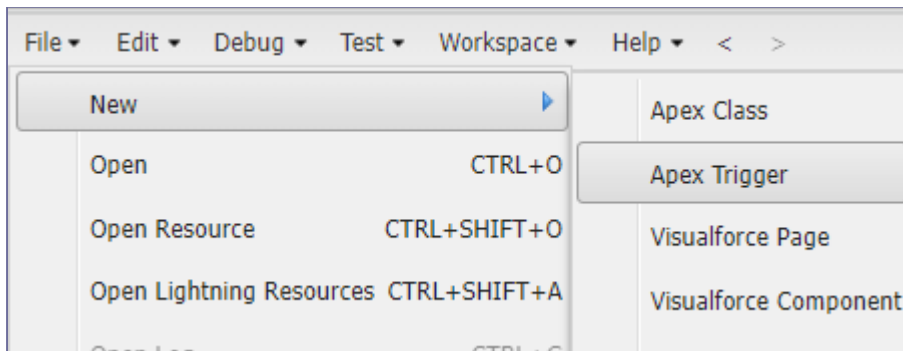
Flow Label : Venue Form

Flow API Name : Venue_Form

Task 18:

Create a Trigger

1. Log into the trailhead account, navigate to the gear icon in the top right corner.
2. Click on developer console and you will be navigated to a new console window.
3. Click on the File menu in the toolbar, and click on new >> Trigger.
4. Enter the trigger name and the object to be triggered.

A screenshot of the 'New Apex Trigger' dialog box. It has a title bar with a close button. Inside, there are two labels: 'Name:' and 'sObject:'. Each label is followed by a text input field. The 'sObject' field has a dropdown arrow on its right side. At the bottom right of the dialog is a 'Submit' button.

5. Enter Name : DropOffTrigger
sObject: Drop-Off Point
6. Click on Submit.

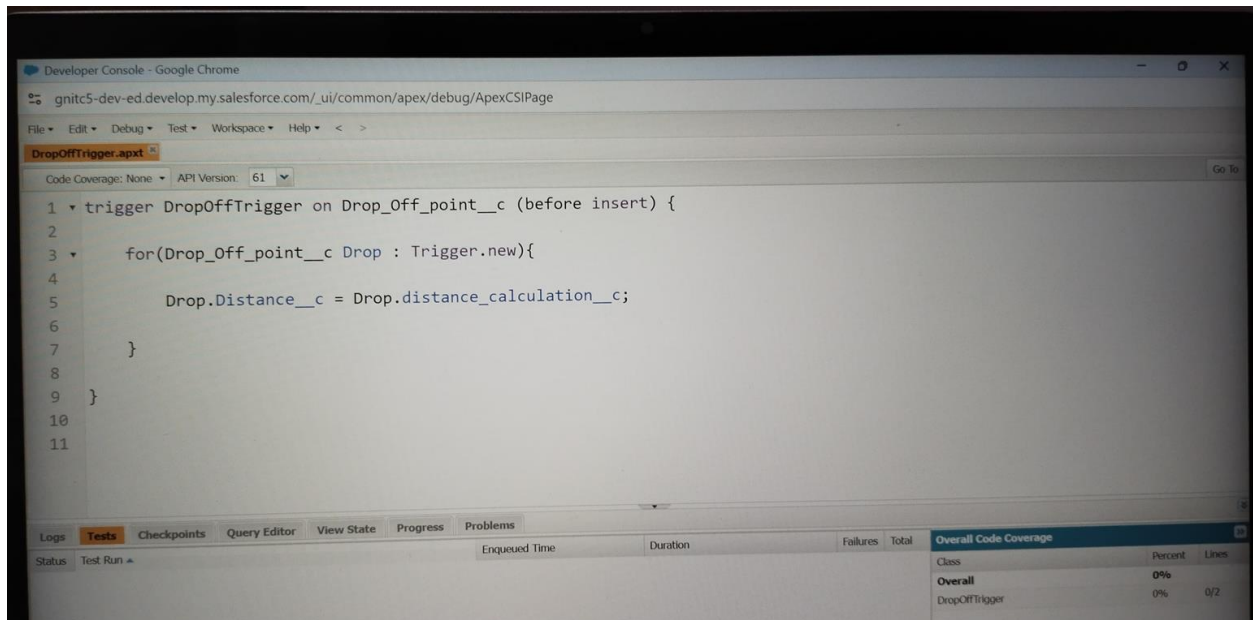
Task 19:

Trigger Code

(This Trigger is to assign Distance field to the Distance Calculation field. So that we can assign the distance in the sharing rules.)

Code:

```
trigger DropOffTrigger on Drop_Off_point__c (before insert) {  
    for(Drop_Off_point__c Drop : Trigger.new){  
        Drop.Distance__c = Drop.distance_calculation__c;  
    }  
}
```



Task 20:

NGO's Profile

1. Go to setup page >> type Profiles in Quick Find bar >> click on Profiles >> click on 'S'
2. Click on Clone beside Standard Platform User.
3. Under Clone Profile:

Profile Name : NGOs Profile

4. Then click on Save

The screenshot displays the Salesforce Setup interface for the 'Profiles' section. The left sidebar shows the navigation menu with 'Setup', 'Home', and 'Object Manager'. The main content area is titled 'Profiles' and shows the 'NGOs Profile' details. The profile is a custom profile with the name 'NGOs Profile' and the license 'Salesforce Platform'. The description is 'Salesforce Platform'. The created by is 'Shalini Reddy Kanukuntla' on 25/09/2024 at 5:49 pm. The modified by is 'Shalini Reddy Kanukuntla' on 25/09/2024 at 5:49 pm. The page layouts section shows the following assignments:

Page Layouts	Assignment
Standard Object Layouts	
Global	Global Layout [View Assignment]
Email Application	Not Assigned [View Assignment]
Home Page Layout	Home Page Default [View Assignment]
Lead	Lead Layout [View Assignment]
Location	Location Layout [View Assignment]
Location Group	Location Group Layout [View Assignment]

Task 21:

Creation of User1

1. Go to setup page >> type users in Quick Find bar >> click on users>> New user.
2. In General Information give details as: (Note : create users as per your wish NGO's)
 - First Name : Iksha Foundation
 - Last Name : Iksha_Foundation
 - Alias : iiksh
 - Email : Give Your Email
 - Username : ikshafoundation@sb.com (give the username different)
 - Nickname : Auto Populated
 - User License : Salesforce Platform
 - Profile : NGOs Profile
 - Active : Check

General Information	
First Name	<input type="text" value="Iksha Foundation"/>
Last Name	<input type="text" value="Iksha_Foundation"/>
Alias	<input type="text" value="iiksh"/>
Email	<input type="text" value="bhargavipaila1023@gmail.c"/>
Username	<input type="text" value="ikshafoundation@sb.com"/>
Nickname	<input type="text" value="User1711437164226559933"/> 
Title	<input type="text"/>
Company	<input type="text"/>
Department	<input type="text"/>
Division	<input type="text"/>
Role	<input type="text" value="<None Specified>"/>
User License	<input type="text" value="Salesforce Platform"/>
Profile	<input type="text" value="NGOs Profile"/> 
Active	<input checked="" type="checkbox"/>
Marketing User	<input type="checkbox"/>
Offline User	<input type="checkbox"/>
Knowledge User	<input type="checkbox"/>
Flow User	<input type="checkbox"/>
Service Cloud User	<input type="checkbox"/>
Site.com Contributor User	<input type="checkbox"/>

3. Click on Save

Task 22:

Creation of User2,User3

1. Create another Two Users by following steps in Activity - 1 with similar User License and Profile.
2. Give Different First Name, Last Name based on Different NGO's.

<input type="checkbox"/>	Edit Login	Iksha_Foundation , Iksha Foundation	iiksh	ikshafoundation@sb.com	<input checked="" type="checkbox"/>	NGOs Profile
<input type="checkbox"/>	Edit Login	NSS_NSS	nnss	nss@sb.com	<input checked="" type="checkbox"/>	NGOs Profile
<input type="checkbox"/>	Edit Login	Street_Cause , Street Cause	sstre	streetcause@sb.com	<input checked="" type="checkbox"/>	NGOs Profile

Task 23:

Creation of Public Group 1

1. Go to setup page >> type Public Groups in Quick Find bar >> click on Public Groups >> click on New.
2. Under Group Information:
Label : Iksha
Group Name : Iksha
Grant Access Using Hierarchies : Check
3. In Search, Select Users.
4. In Selected Members Add Iksha Foundation and System Administrator

Task 24:

Creation of Public Group 2

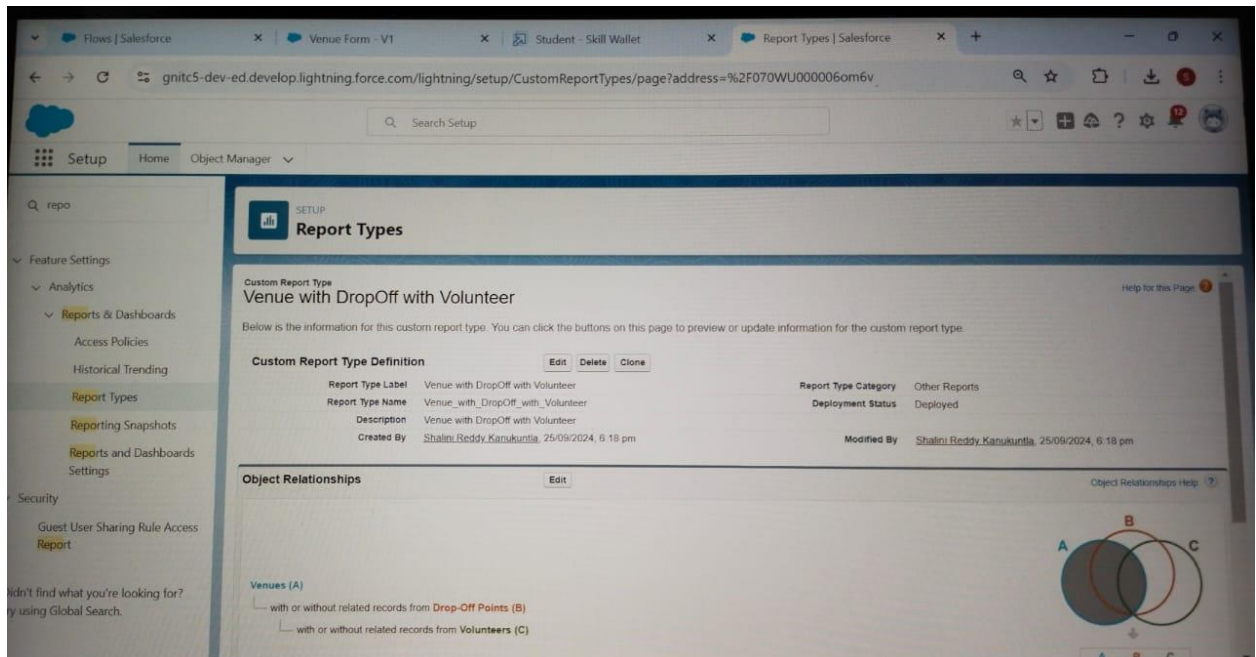
1. By Following Steps in Activity 1, Create other two Public Groups for other two users.
2. After Saving this would look like this.

New				
Action	Label ↑	Group Name	Created By	Created Date
Edit Del	Iksha	Iksha	Bhargavi_Paila	26/03/2024, 2:27 pm
Edit Del	NSS	NSS	Bhargavi_Paila	26/03/2024, 2:27 pm
Edit Del	Street Cause	Street_Cause	Bhargavi_Paila	26/03/2024, 2:26 pm

Task 25:

Creation Of Report Types

1. Go to setup page >> type Report Types in Quick Find bar >> click on Report Types >> click on Continue >> Click on New Custom Report Type.
2. In Define the Custom Report Type:
Primary Object : Select Venues
Report Type Label : Venue with DropOff with Volunteer
Report Type Name : Venue_with_DropOff_with_Volunteer
Description : Venue with DropOff with Volunteer
Store in Category : Select Other Reports
Deployment Status : Deployed
3. Click on Next
4. Near Click to relate another Object Select Drop-Off Points.
5. And also select "A" records may or may not have related "B" records.
6. Now again Near Click to relate another Object Select Volunteers.
7. Now click on Save.



Task 26:

Creation of Report on Venue with DropOff with Volunteer

1. Go to the app(FoodConnect) >> click on the reports tab
2. Click on New Folder.
Folder Label : Custom Reports
Folder Unique Name : CustomReports
3. Open Custom Reports and click on New Report
4. Select Report Type : Venue with DropOff with Volunteer
5. Then click on Start Report.
6. In GROUP ROWS : Add Volunteer Name
7. In Columns : Add Venue Name, Drop-Off point Name, Distance.

Outline

Filters 2

Groups

GROUP ROWS

Add group...

Volunteer Name

GROUP COLUMNS

Add group...

Columns

Add column...

Venue Name

Drop-Off point Name

Distance

Previewing a limited number of records. Run the report to see everything.

Volunteer Name	Venue Name	Drop-Off point Name	Distance
- (4)	La Royale Banquet Hall.	Shapur	5.1161
	La Royale Banquet Hall.	Jeedimetla	6,902.9995
	Paradise Garden Function Hall	Suraram Village	28.2332
	Ujwala Grand	-	-
Subtotal			6,936.3488
Total (4)			6,936.3488

8. Now click on Save & Run.
9. Give Label as :
10. Report Name : venue and Drop Off point
11. Report Unique Name : Auto Populated
12. Click on Select Folder and select Custom Report, then click on Save.

Task 27:

Creation of Report on Volunteers with Execution Details and Tasks

1. Go to the app(FoodConnect) >> click on the reports tab
2. Click on Custom Reports Folder and click on New Report
3. Select Report Type : Volunteers with Execution Details and Tasks.
4. Then click on Start Report.
5. In GROUP ROWS : Volunteer ID
6. In Columns : Add Volunteer : Volunteer Name, Task : Task Name, Execution Detail : Execution Detail Name, Volunteer: Owner Name, Task: Date, Task : Rating.

The screenshot shows a report builder interface for a report titled 'Volunteer Task'. The report is configured with 'Volunteer ID' as the group row and several columns: 'Volunteer: Volunteer Name', 'Task: Task Name', 'Execution Detail: Execution Detail Name', 'Volunteer: Owner Name', 'Task: Date', and 'Task: Rating'. The preview shows a table with data for Charan and Bhavika, including subtotals and a grand total. The interface includes a left sidebar for fields, a top bar with buttons like 'Add Chart', 'Save & Run', and 'Run', and a bottom bar with checkboxes for 'Row Counts', 'Detail Rows', 'Subtotals', and 'Grand Total'.

Volunteer ID	Volunteer: Volunteer Name	Task: Task Name	Execution Detail: Execution Detail Name	Volunteer: Owner Name	Task: Date	Task: Rating
2 (1)	Charan	Task 2	Execution 2	Iksha Foundation Iksha_Foundation	28/03/2024	5
Subtotal						
4 (1)	Bhavika	Task 1	Execution 1	Iksha Foundation Iksha_Foundation	28/03/2024	4
Subtotal						
Total (2)						

7. Now click on Save & Run.
8. Give Label as :
Report Name : Volunteer Task
Report Unique Name : Auto Populated
9. Click on Select Folder and select Custom Report, then click on Save.

Task 28:

Creation of Report on Volunteers with Execution Details and Tasks

1. Go to the app(FoodConnect) >> click on the Dashboards tab.
2. Click on New Folder.

Folder Label : Custom Dashboards

Folder Unique Name : Auto Populated

3. Open Custom Dashboards and click on New Dashboards
4. Name : Organization Details
5. Click on Widget and select Chart or Table
6. In Select Report : Select venue and Drop Off point Report.
7. Then click on select
8. In Add Component:

Display As : Select Lightning Table

Component Theme : Select Dark (Optional)

The screenshot displays the configuration interface for a report in the FoodConnect app. On the left, the 'Report' section shows 'venue and Drop Off point' selected. Below it, the 'Display As' section shows various widget options, with the 'Lightning Table' widget selected. The 'Groups' section has an 'Add group...' button. The 'Columns' section is also visible. On the right, the 'Preview' section shows a dark-themed table with the following data:

Venue Name ↑	Drop-Off point Name	Distance
La Royale Banquet Hall.	Shapur	5.1161
La Royale Banquet Hall.	Jeedimetla	6.9030k
Paradise Garden Function Hall	Suraram Village	28.2332
Ujwala Grand	-	-

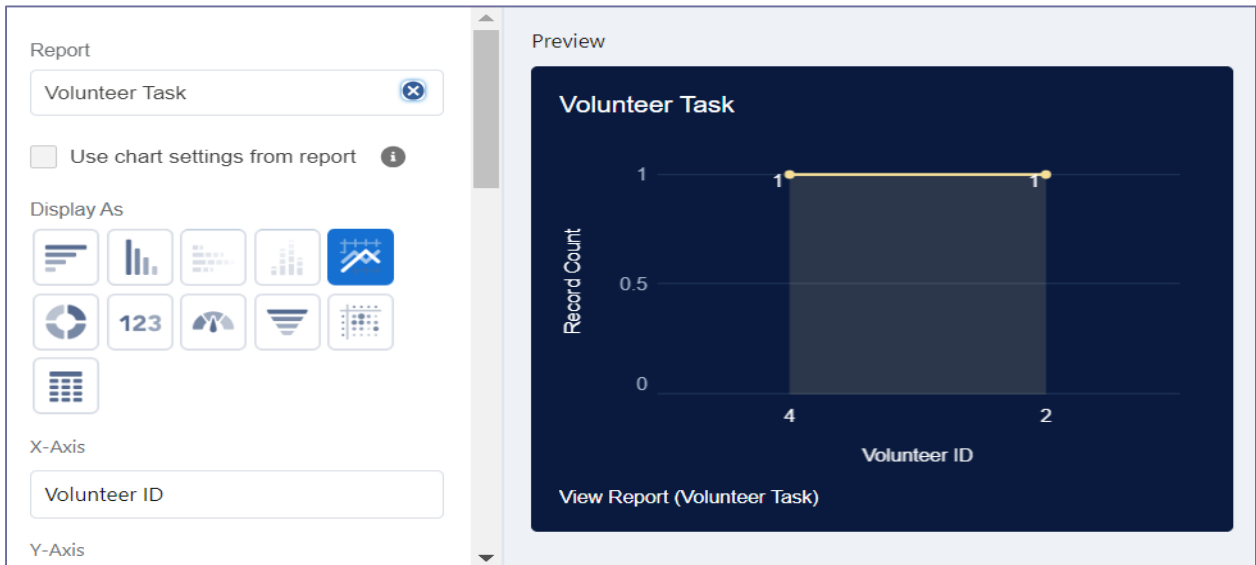
Below the table, there is a button labeled 'View Report (venue and Drop Off point)'.

9. Now click on save.

Task 29:

Adding Volunteer Task Report to the Dashboard

1. Click on Widget and select Chart or Table
2. In Select Report : Select Volunteer Task Report.
3. Then click on select
4. In Add Component:
Display As : Select Line Chart
Component Theme : Select Dark (Optional)



5. Now click on save.

Task 30:

Adding a Picture to the Dashboard (Optional)

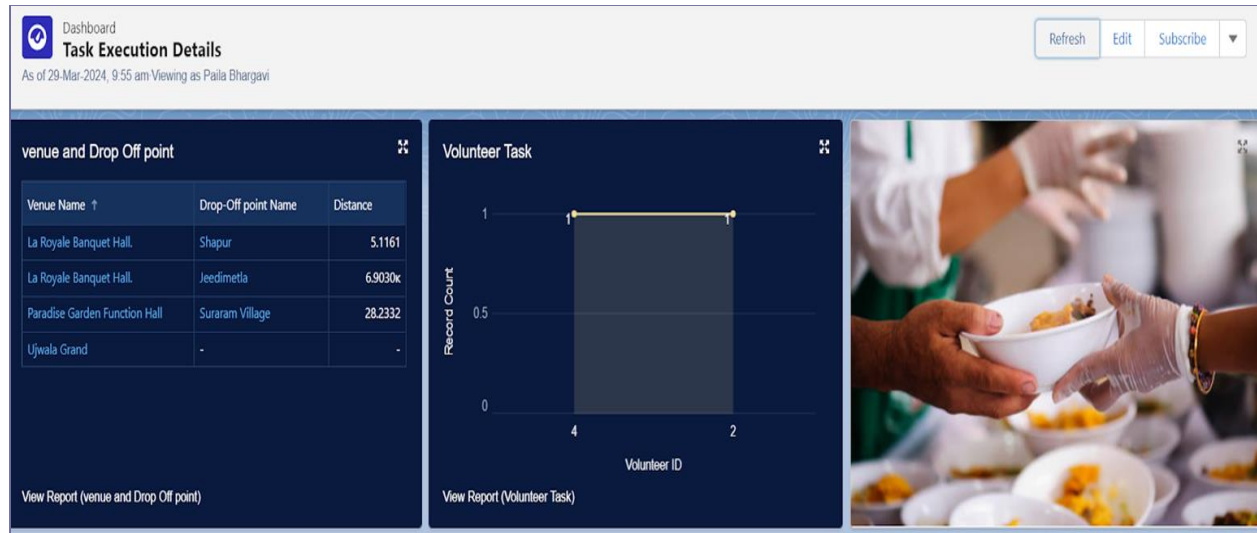
(Note : To upload an image into the Dashboard, we have to first download an image from google or other sources into your system)

1. Click on Widget and select Image. Then click on Browse Files.
2. Then Select the Picture you want to upload in this Dashboard.
3. Then click on Save As :

Name : Task Execution Details

Click on Select Folder and select Custom Dashboards

4. Click on Select Folder and then Save.



Task 31:

Creation of sharing rules

1. Go to setup >> type Sharing Settings in quick find box >> Click on the Sharing Settings.

2. Scroll down and find Drop-Off point Sharing Rules.
3. Click on new near Drop-Off point Sharing Rules and Name it as:
Label : Rule 1
Rule Name : Rule_1
4. Select your rule type : Select Based on criteria.
5. Select which records to be shared:
Field : Operator : Value = Distance : less than : 15
6. Select the users to share with : Near Share With
Public Groups : Iksha
7. Click on Save.
8. Click on new near Drop-Off point Sharing Rules and Name it as:
Label : Rule 2
Rule Name : Rule_2
9. Select your rule type : Select Based on criteria.
10. Select which records to be shared:
Field : Operator : Value = Distance : greater than : 15
Field : Operator : Value = Distance : less or equal : 30
11. Select the users to share with : Near Share With
Public Groups : NSS
12. Click on Save.
13. Click on new near Drop-Off point Sharing Rules and Name it as:
Label : Rule 3
Rule Name : Rule_3
14. Select your rule type : Select Based on criteria.
15. Select which records to be shared:
Field : Operator : Value = Distance : greater than : 30
Field : Operator : Value = Distance : less or equal : 50
16. Select the users to share with : Near Share With
Public Groups : Street Cause
17. Click on Save.

Drop-Off point Sharing Rules

[New](#)[Recalculate](#)[Drop-Off point Sharing Rules Help](#) ?

Action	Criteria	Shared With	Access Level
Edit Del	Drop-Off point: Distance LESS OR EQUAL 15	Group: Iksha	Read/Write
Edit Del	(Drop-Off point: Distance GREATER THAN 15) AND (Drop-Off point: Distance LESS OR EQUAL 30)	Group: NSS	Read/Write
Edit Del	(Drop-Off point: Distance GREATER THAN 30) AND (Drop-Off point: Distance LESS OR EQUAL 50)	Group: Street Cause	Read/Write

Task 32:

Creation Of Home Page

1. Go to setup >> type Lightning App Builder in quick find box >> Click on the Lightning App Builder and Select the New.
2. Select Home Page and give Label as HOME Page.
3. Select Standard Home Page.
4. Near Components search for Flow and Drag and Drop in Right Side Section..
5. On the right hand side:
Flow : Venue Flow
6. Near Components search for Dashboard, then Drag and Drop it in first Section.

The screenshot displays the Lightning App Builder interface for a dashboard titled "Task Execution Details". The dashboard is composed of three main components:

- venue and Drop Off point:** A table listing venues and their drop-off points.
- Volunteer Task:** A chart showing the relationship between Volunteer ID and Repeat Count.
- Flow Component: Venue Form:** A placeholder for a flow component.

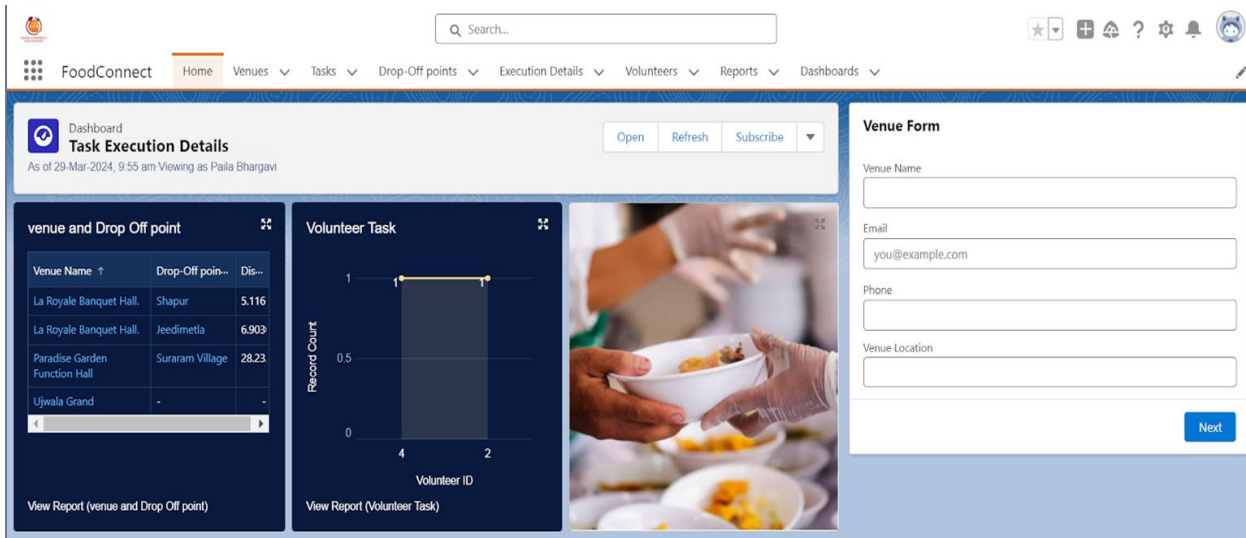
Below the components, there are two buttons labeled "Add Component(s) Here".

Venue Name	Drop-Off point	Dis...
La Royale Banquet Hall	Shapur	5.116
La Royale Banquet Hall	Jeedimetla	6.903
Paradise Garden Function Hall	Suraram Village	28.23
Ujwala Grand	-	-

View Report (venue and Drop Off point)

View Report (Volunteer Task)

7. Click on Save and Activation, then click on App Default, then Add Assignments.
8. Add FoodConnect App and then Save.
9. FoodConnect Home Page would Look Like this.



Conclusion:

By leveraging the Salesforce platform, the project successfully established a streamlined and transparent system for managing surplus food donations. Through efficient coordination with volunteers and timely delivery to beneficiaries, the project effectively addressed food insecurity while maximizing the utilization of available resources.