

# To Supply Leftover Food to Poor

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# PROJECT ABSTRACT

Food wastage is a significant issue globally, while millions of people face hunger and malnutrition daily. This project aims to tackle both food waste and hunger by creating an efficient system for collecting, redistributing, and supplying leftover food to those in need. The initiative focuses on building a network between restaurants, hotels, households, and local shelters or organizations that support the underprivileged.

**Objective:** The primary goal of this project is to reduce food wastage by channelling surplus food from restaurants, cafes, events, and households to the poor and homeless. The project aims to ensure that perfectly edible leftover food reaches those who need it most, in a timely and safe manner.

## Key Components:

1. **Food Collection System:** We will establish partnerships with food establishments (restaurants, hotels, cafes) and households to gather excess food that is safe for consumption. A digital platform will be developed to facilitate real-time coordination and communication for food pickup and redistribution.
2. **Logistics and Distribution:** A fleet of delivery vehicles and volunteers will be mobilized to collect and transport food to designated distribution points, such as homeless shelters, food banks, and community centres.
3. **Safe Food Handling:** The project will comply with all food safety standards, ensuring proper handling, storage, and transportation of the food to avoid spoilage and health risks.
4. **Awareness and Engagement:** Public awareness campaigns will be conducted to encourage people to donate leftover food responsibly and educate them on the importance of reducing food waste. We will also engage volunteers and community organizations to assist in the food distribution process.

**Technology Utilization:** The project will leverage a mobile application and web platform to:

- Connect food donors (restaurants, households) with local distribution centres.
- Track food donations and redistribution efforts.
- Provide a seamless communication system for real-time updates on food availability and delivery schedules.

## Expected Outcomes:

- Reduction in food wastage by diverting surplus food to feed the hungry.
- Provision of regular, nutritious meals to the underprivileged, improving their quality of life.
- Increased community involvement in addressing food insecurity and waste.

**Long-Term Vision:** The project envisions scaling across multiple cities, forming a nationwide network that connects donors and beneficiaries efficiently. By establishing a circular economy around food redistribution, we aim to reduce food wastage significantly while contributing to the fight against hunger.

This initiative will promote sustainability, social responsibility, and community-driven action to support the basic human right of access to food.

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# INTRODUCTION

Food waste is a growing concern globally, with an alarming amount of edible food being discarded daily while millions of people suffer from hunger and food insecurity. This paradox highlights the need for innovative solutions to bridge the gap between surplus food and those in need. The project "Supply Leftover Food to the Poor" aims to address this issue by leveraging the powerful capabilities of Salesforce to create a streamlined, efficient, and scalable system for collecting, managing, and distributing leftover food.

The core idea is to develop a centralised platform where restaurants, cafes, and other food establishments can easily report their surplus food. Volunteers can then be coordinated to collect and deliver this food to registered beneficiaries, ensuring that the food reaches those in need promptly and safely. By using Salesforce's CRM tools, we can enhance the efficiency of this process, track real-time data, and maintain transparency throughout the operation.

This project not only aims to reduce food waste but also seeks to improve food security for disadvantaged individuals and communities. Through community engagement and leveraging technology, we can create a sustainable model that benefits both the environment and society. By addressing logistical challenges and ensuring proper food handling and distribution, this project hopes to set a precedent for how technology can be used to tackle pressing social issues.

# TASK 1: Salesforce developer account creation

## Creating Developer Account

Creating a developer org in salesforce.

Go to <https://developer.salesforce.com/signup2>. On the sign up form, enter the following details :

**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 framework

**Sign up for your Salesforce Developer Edition**  
A full-featured copy of the Platform, for free

Complete the form to start your free trial. Our team will be in touch to help you make the most of your trial.

First Name\*  Last Name\*

Email\*

Role\*

Company\*

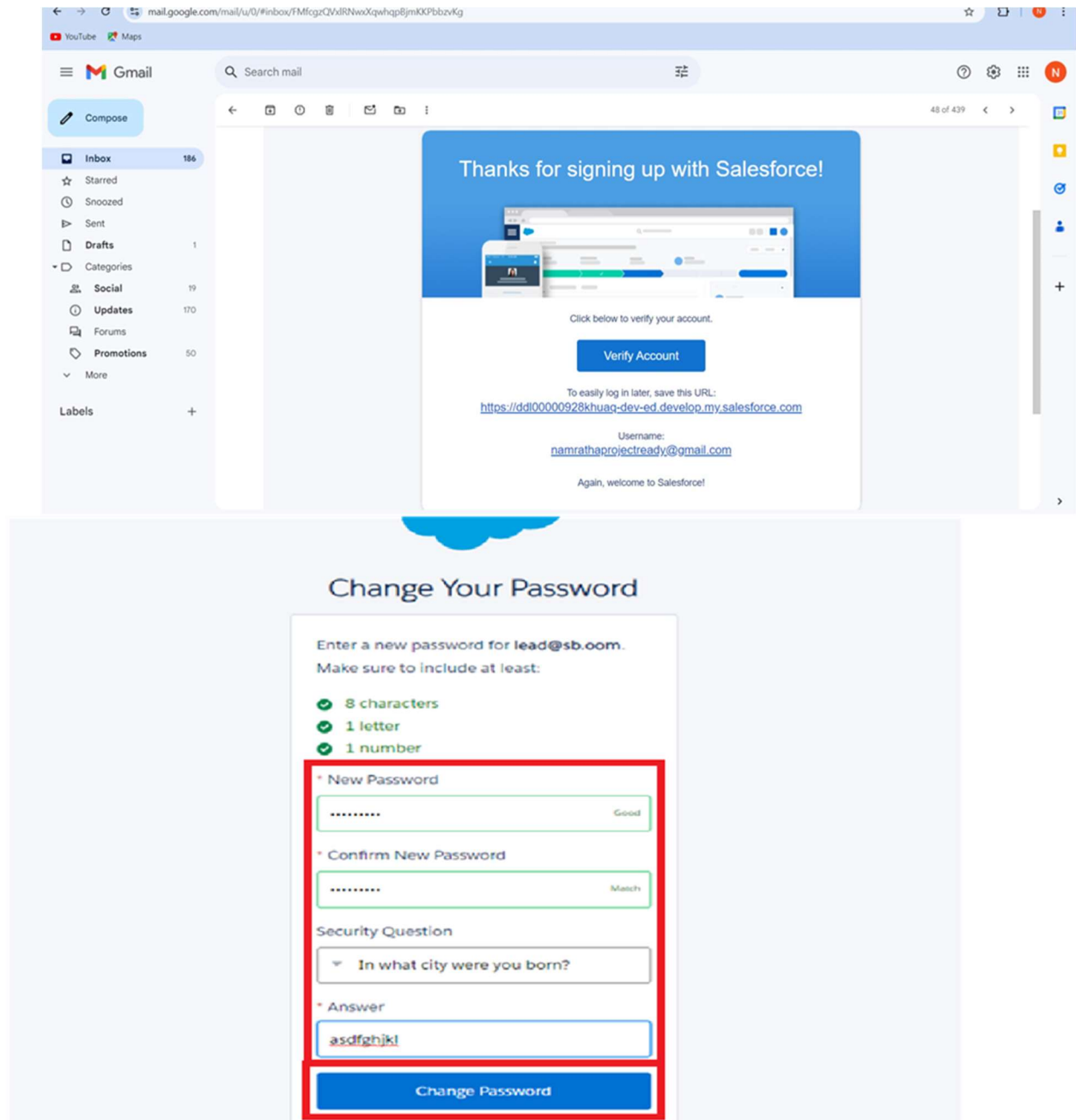
- a. First name & Last name
- b. Email
- c. Role : Developer
- d. Company : College or Company Name
- e. Country : India
- f. Postal Code : pin code
- g. Username : should be a combination of your name and company  
This need not be an actual email id, you can give anything in the format :

username@organization.com

Click on sign me up after filling these.

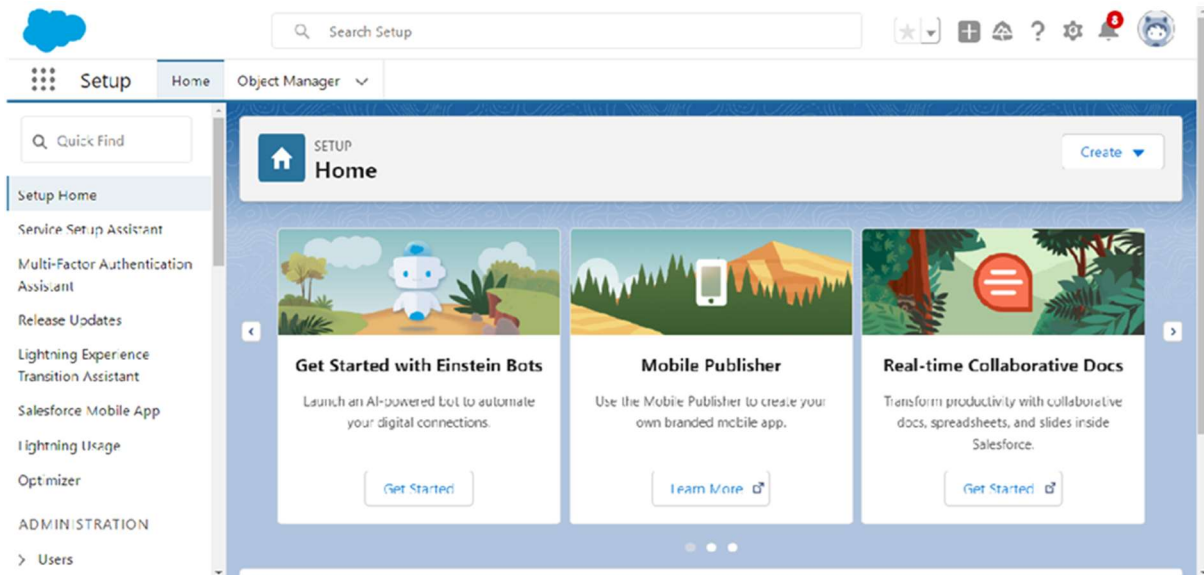
## AccountActivation

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.



Click on Verify Account

- 2 . Give a password and answer a security question and click on change password.
3. Give a password and answer a security question and click on change password.
4. Then you will redirect to your salesforce setup page.



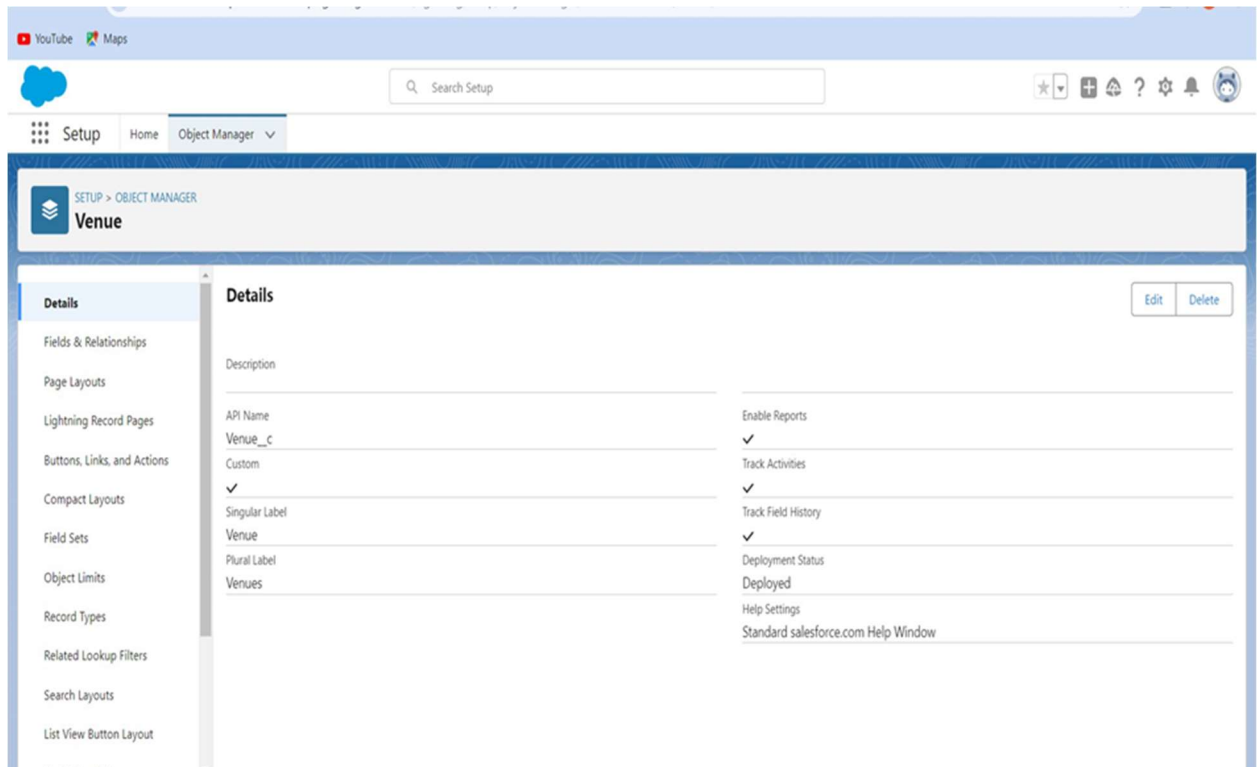
## TASK 2: Objects creation

### Create Venue Object

To create an object:

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

3. Allow search>> Save.

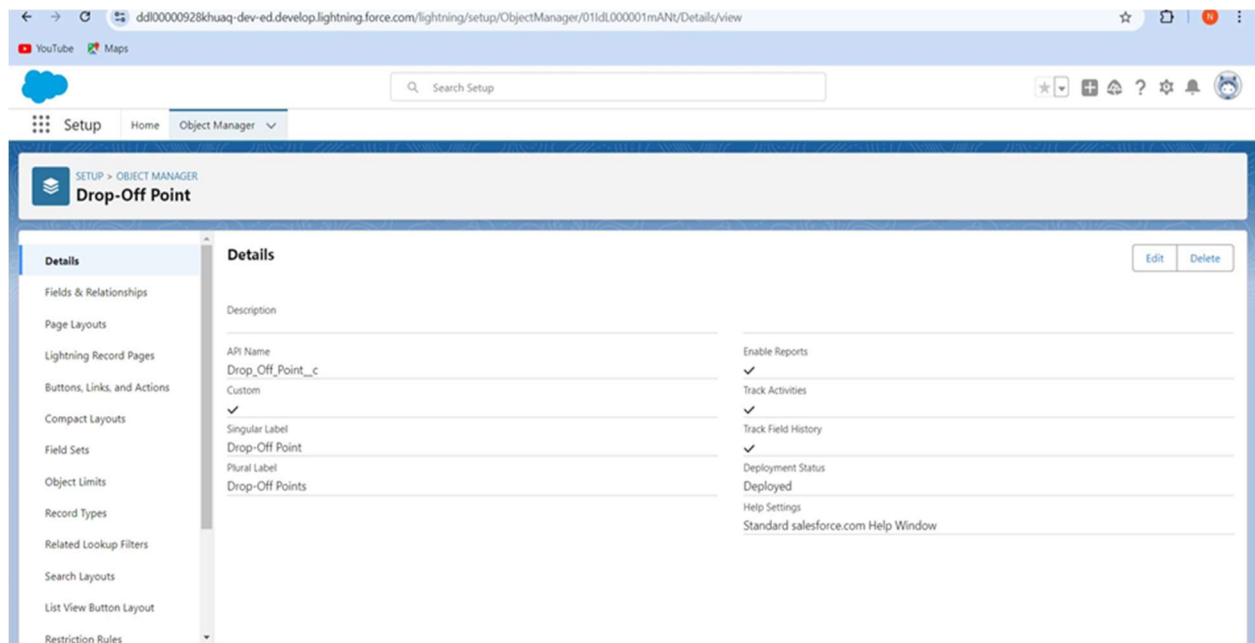


## Create Drop-Off Point Object

To create an object:

1. From the setup page >> Click on Object Manager >>Click on Create >> Click on Custom Object.
1. Enter the label name >> Drop-OffPoint
2. Plural label name>> Drop-OffPoints
3. Enter RecordName Label and Format
  - a. Record Name >> Drop-Offpoint Name
  - b. DataType >> Text
2. Click on Allow reports and Track Field History,Allow Activities
3. Allow search>> Save.

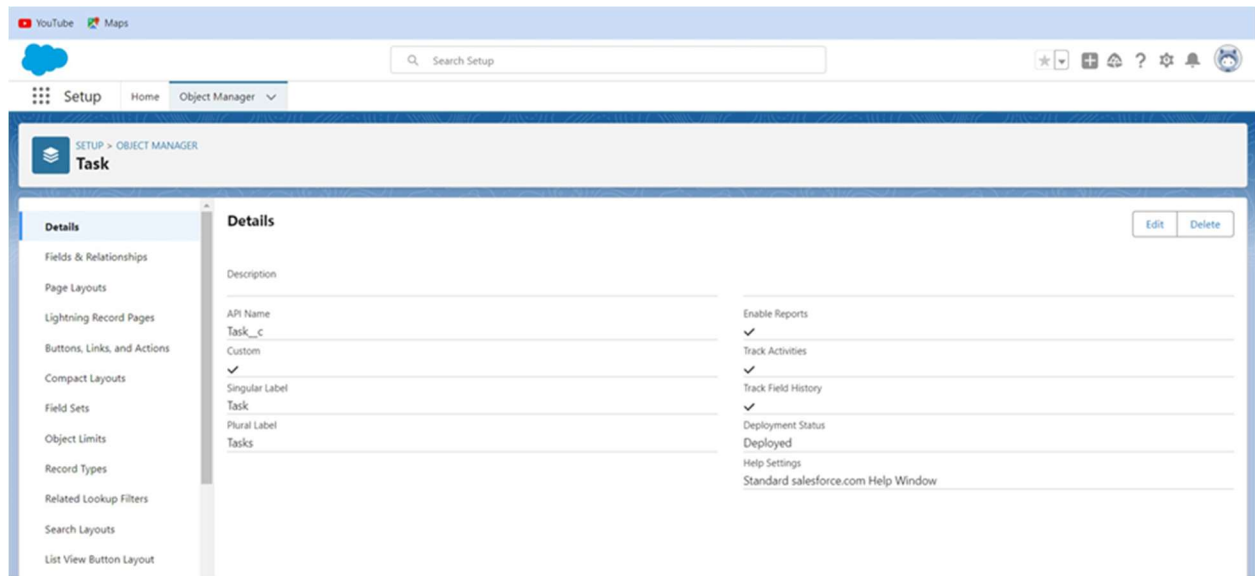




## Create Task Object

To create an object:

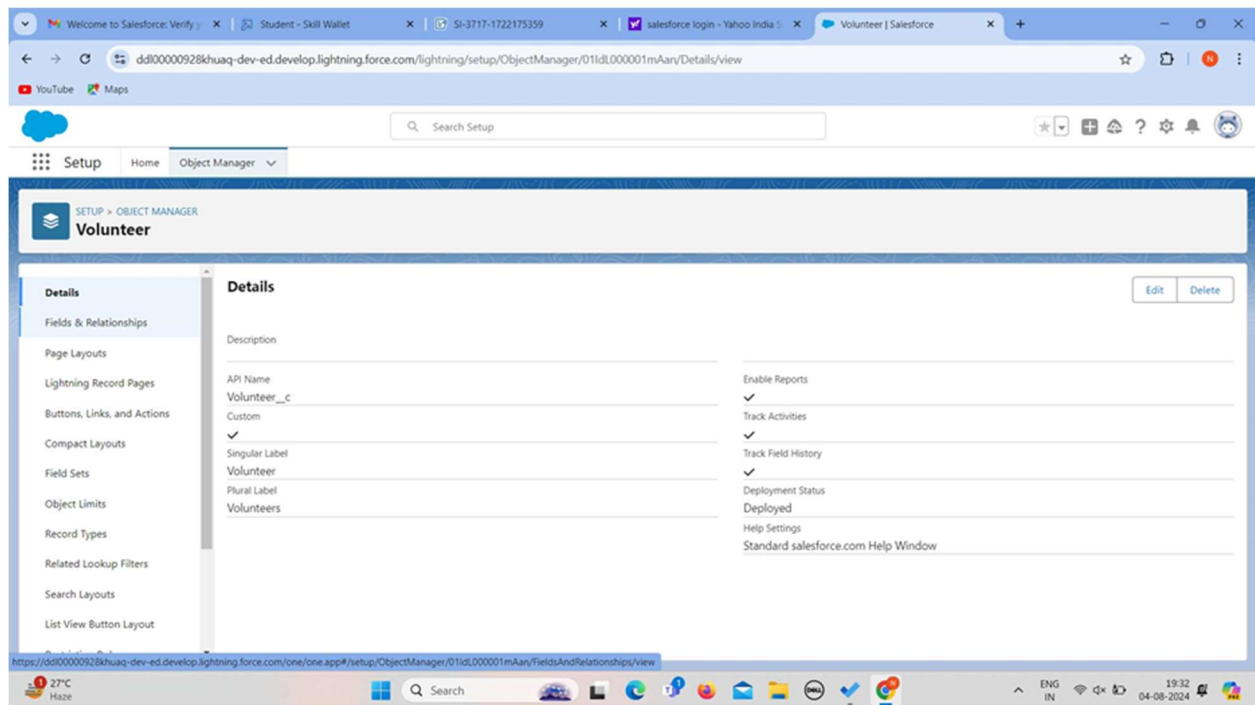
1. From the setup page >> Click on Object Manager >>Click on Create >> Click on Custom Object.
1. Enter the label name>> Task
2. Plural label name>> Tasks
3. Enter RecordName Label and Format
  - a. Record Name >> Task Name
  - b. Data Type >> Text
2. Click on Allow reports and Track Field History,Allow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



## Create Volunteer Object

To create an object:

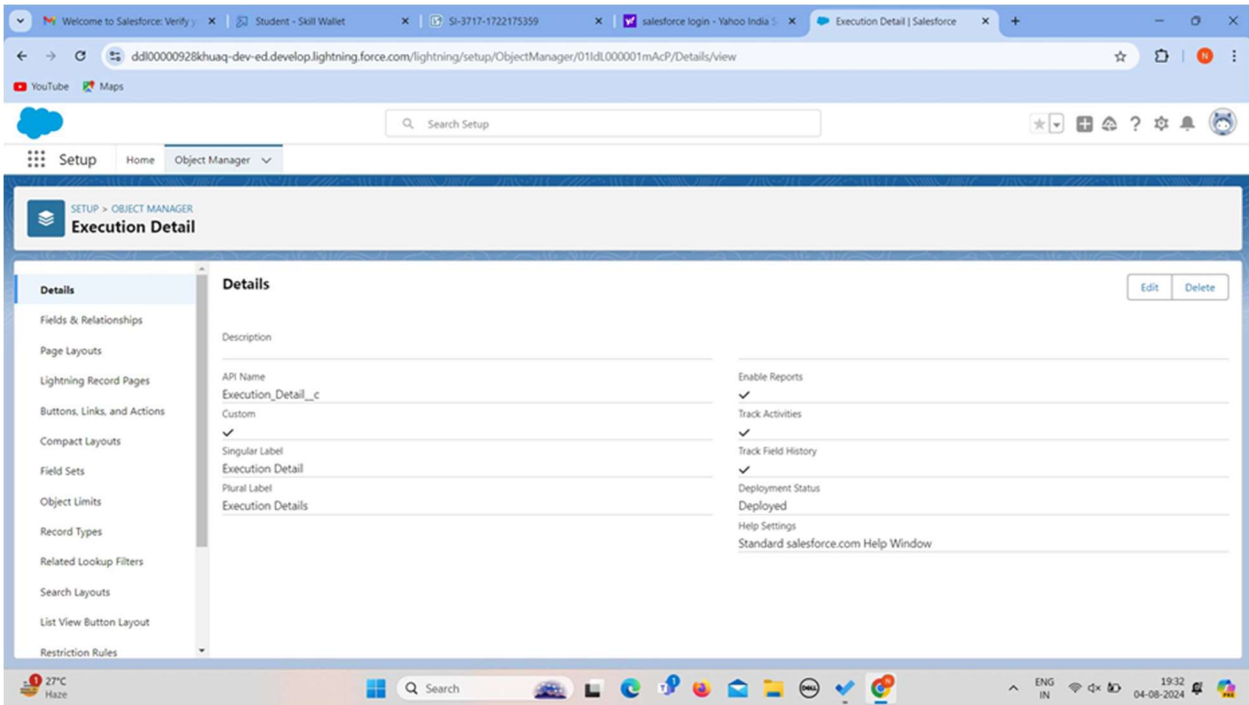
1. From the setup page >> Click on Object Manager>> Click on Create>> Click on Custom Object.
1. Enter the label name>> Volunteer
2. Plural label name>> Volunteers
3. Enter RecordName Label and Format
  - a. Record Name >> VolunteerName
  - b. Data Type >> Text
2. Click on Allow reports and Track Field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



## Create Execution Details Object

To create an object:

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



## TASK 3: Tabs

What is Tab : A tab is like a user interface that is used to build records for objects and to view the records in the objects.

### Creating a Custom Tab

To create a Tab:(Venue)

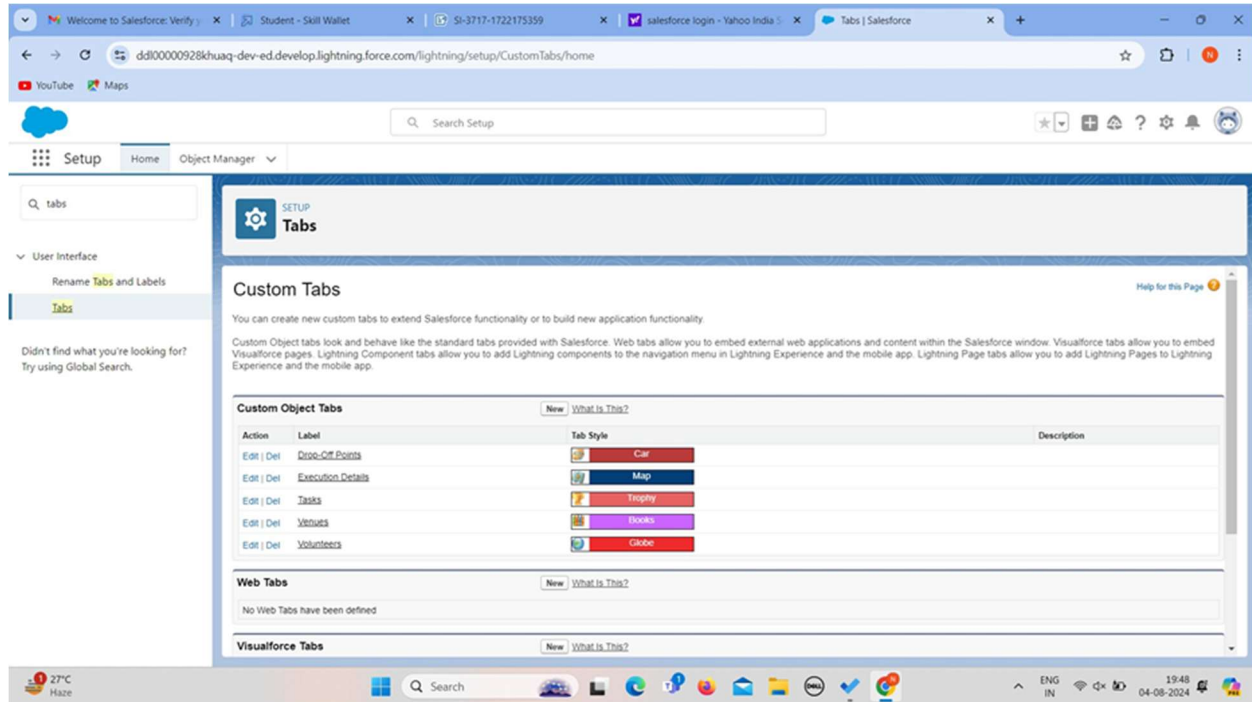
Go to setup page >>type Tabs in Quick Find bar >>click on tabs >> New (under custom object tab)

1. 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 .
2. Make sure that the Append tab to users' existing personal customizations is checked.
3. Click save

### Creating Remaining Tabs

1. Now create the Tabs for the remaining Objects,they are "Drop-OffPoint, Task, Volunteer, Execution Details".

Follow the same steps as mentioned in above Activity.



## TASK 4: The Lightning App

To create a lightning app page:

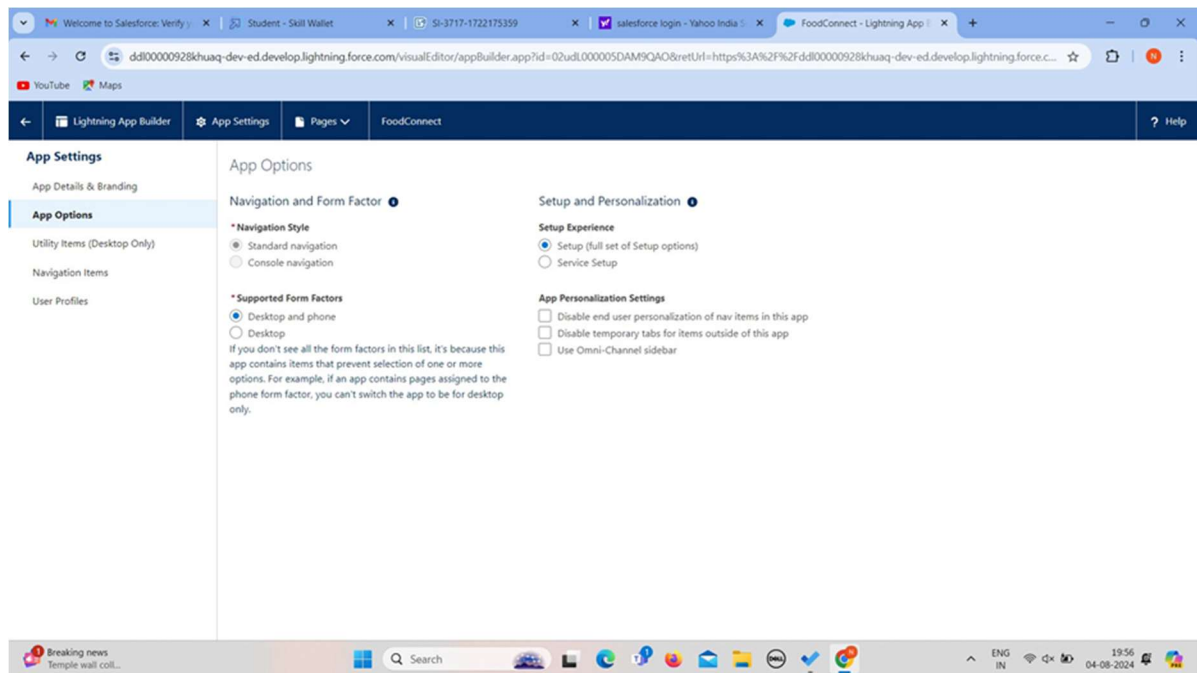
1. Go to setup page >> search "app manager" in quick find >> select "app manager" >> click on New lightning App.
2. Fill the app name in app details and branding as follow  
App Name : FoodConnect  
Developer Name : This will auto populated  
  
Image : optional (if you want to give any image you can otherwise not mandatory)  
Primary colour hex value : keep this default.
3. Then click Next >> (App option page) Set Navigation Style as Standard Navigation >> Next.

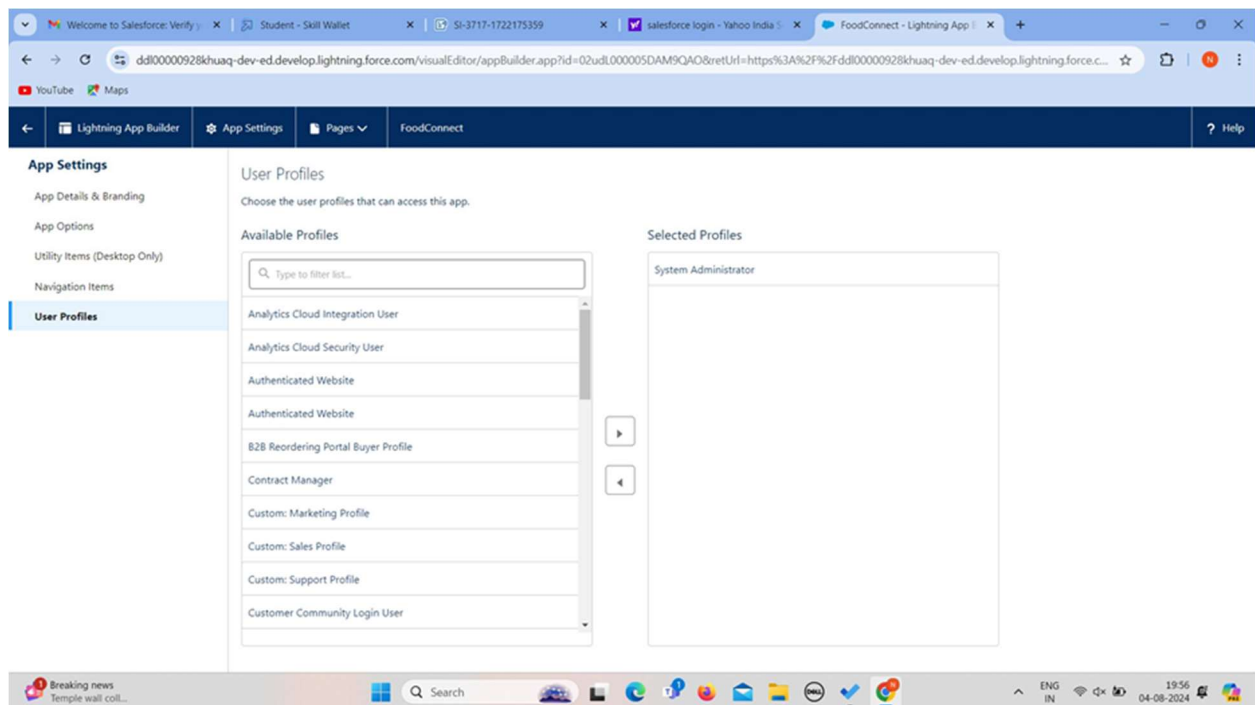
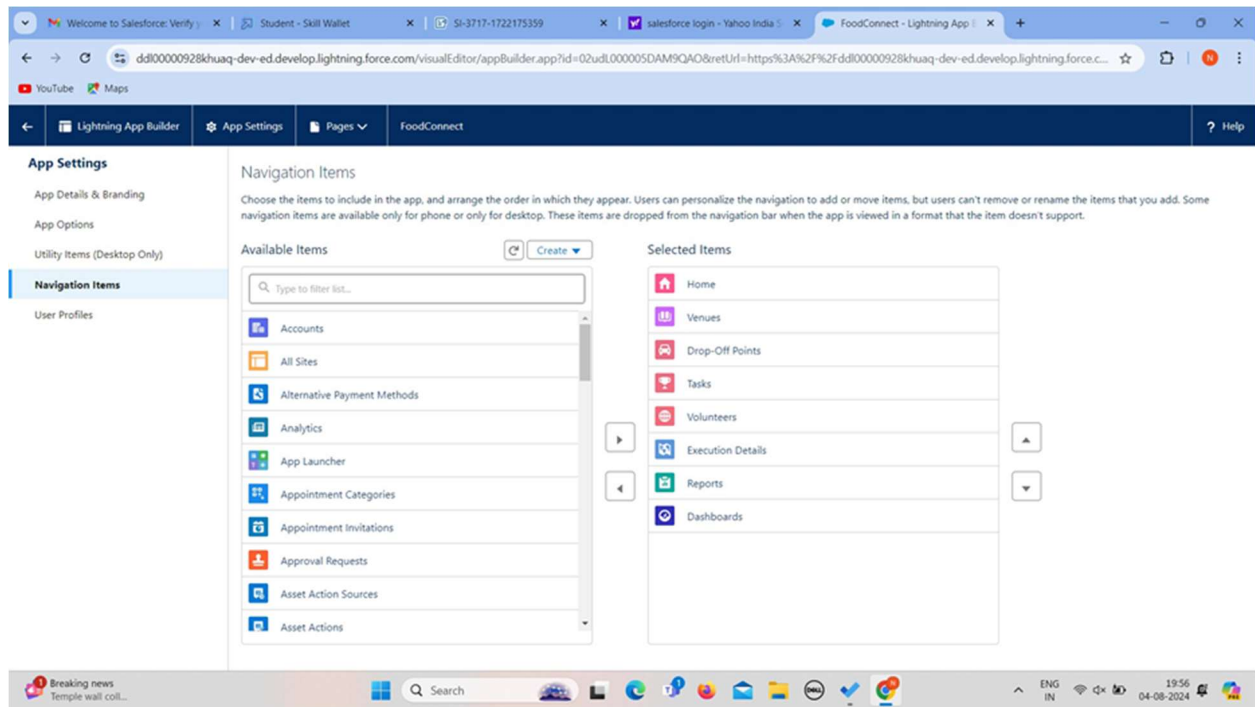
4. (Utility Items)keep it as default >>Next.
5. To Add Navigation Items:

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 5: Fields creation

## Creation of Relationship fields in objects

### Creation of Lookup Relationship Field on Volunteer Object :

1. Go to setup>> click on Object Manager>> type objectname(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 objectname(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 objectname(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 objectname(Task) in the search bar >> click on the object.
23. Now click on "Fields & Relationships" >>New
24. Select Lookuprelationship
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 Lookuprelationship
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 Lookuprelationship
39. Select the related object "Drop-Off point" and click next.
40. Field Name : Drop-Offpoint
41. Field label : Auto generated
42. Next >>Next >> Save.

### **Creation of fields for the Venue object**

1. Go to setup>> click on Object Manager>> type objectname(Venue) in search bar >> click on the object.
2. Nowclick on "Fields& Relationships" >>New

3. Select Data type as a "Email" and Click on Next
4. Fill the Above as following:
  - a. Field Label : ContactEmail
  - b. Field Name : ContactEmail
  - c. Click on required check box
  - d. Click on Next >>Next >> Save and new.

**To create another fields in an object:**

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

**To create another fields in an object:**

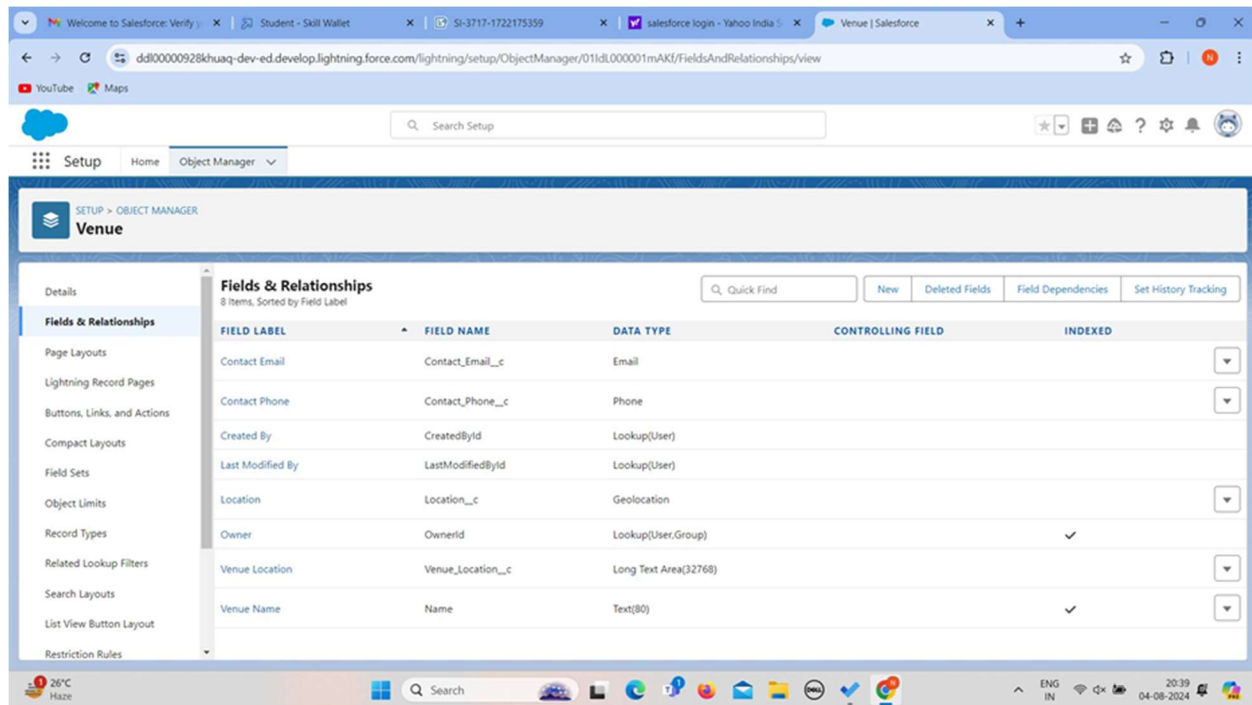
1. Go to setup >>click on ObjectManager >> type object name(Venue) in search bar >>click on the object.
2. Nowclick on "Fields& Relationships" >>New
3. Select Data type as a "Geolocation" and Click on Next
4. Fill the Above as following:
  - a. Field Label: Location
  - b. Decimal Places: 4
  - c. Field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

**To create another fields in an object:**

9. Go to setup >>click on ObjectManager >> 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:

- a. Field Label : VenueLocation
- b. Field Name : Venue\_Location
- c. Click on Next >>Next >> Save and new.



## Creation of fields for the Drop-Offpoint object

Go to setup>> click on Object Manager>> type objectname(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:
  - a. Field Label : Location2
  - b. Field Name : gets auto generated
  - c. Description : Enter the Geolocation of the Drop off Point
  - d. Geolocation Options : select Decimal
  - e. Decimal Places : 4
  - f. Click on Next >>Next >> Save and new.

## To create another fields in an object:

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

### To create another fields in an object:

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

6. Nowclick on “Fields& Relationships” >>New

7. Select Data type as a “Picklist” and Click on Next

8. Fill the Above as following:

FieldLabel : State

Field Name : State

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

Andhra Pradesh

ArunachalPradesh

Assam

Bihar

Chhattis

garh

Goa

Gujarat

Haryan

Himachal

Pradesh

Jharkhand

Karnataka

Kerala

Maharashtra

Madhya

Pradesh

Manipur

Meghalaya

Min

ora

Lan

gla

nd

Odi

sha

Pun

jab

Rajasthan

Sikking

Tamil

Nadu

Tripura

Telanga

na

Utter

Pradesh

Tartarag

han

West

Bengal

Andaman &

Nicobar(UT)

Chandigarh (UT)

Dada & NagarHaveli and Dam an& Die (UT)

Delhi [National Capital Territory (NCT)]

Jammu &

Kashmir(UT) Lakh

(UT) Lakshadweep

(UT)

Puducherry (UT)

->Clickon required check box

->Clickon 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

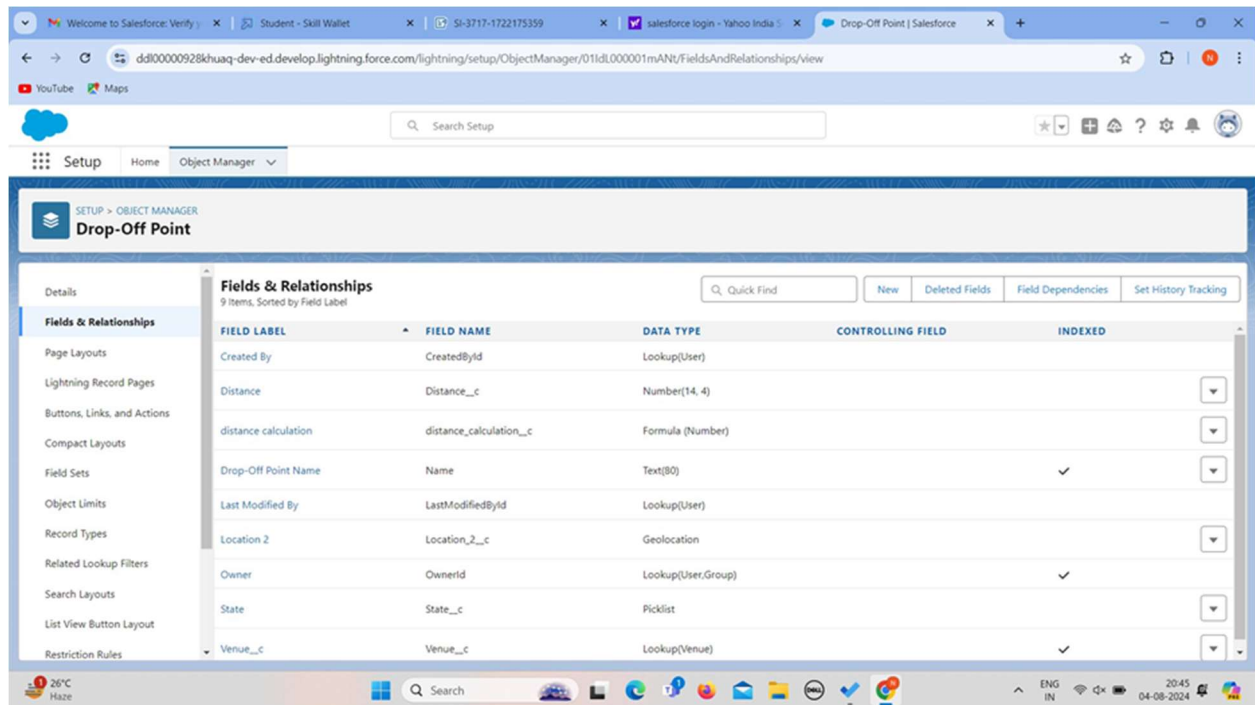
->Field Name : Distance

->Length : 14

->Decimal Places : 4

->Clickon required check box

->Clickon Next >>Next >> Save and new.



## Creation of fields for the Task object

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

1. Now click on "Fields & Relationships" >>New
2. Select Data type as a "Auto Number" and Click on Next
3. Fill the Above as following:
  - a. FieldLabel : Task ID
  - b. Display Format : TASK-{0}
  - c. Starting Number: 1
  - d. FieldName : gets auto generated
  - e. Click on required check box
  - f. 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. Nowclick on "Fields& Relationships" >>New
3. Select Data type as a "Date"and Click on Next
4. Fill the Above as following:
  - a. Field Label: Date

- b. Field Name : Date
- c. Click on required check box
- d. 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. Nowclick on “Fields& Relationships” >>New
- 7. Select Data type as a “Picklist(Multi-Select)” and Click on Next
- 8. Fill the Above as following:
  - a. Field Label : Food Category
  - b. Field Name : Food Category
  - c. Enter values, with each value separated by a new line : Veg,Non-veg,snack,salad
  - d. Click on required check box
  - e. 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:
  - a. Field Label : Numberof People Served
  - b. FieldName : Number\_of\_People\_Served
  - c. Click on required check box
  - d. Click on Next >>Next >> Save and new.

**To create another fields in an object:**

- 13. Go to setup >>click on ObjectManager >> 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:
  - a. Field Label: Name of the Person
  - b. Field Name : Name\_of\_the\_Person
  - c. 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:
  - a. Field Label: Phone
  - b. FieldName : Phone
  - c. Click on Next >> Next>> Save and new.

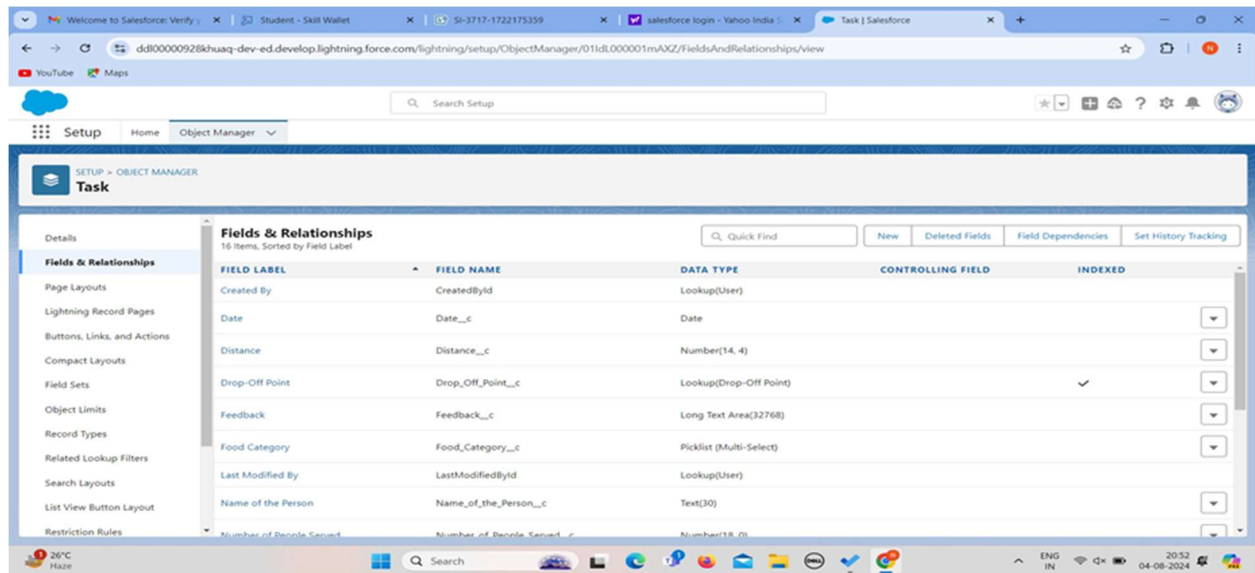
### **To create another fields in an object:**

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

### **To create another fields in an object:**

25. Go to setup >>click on ObjectManager >> 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:
  - a. Field Label: Feedback
  - b. FieldName : Feedback
  - c. Click on Next >>Next >> Save and new.





## Creation of fields for the Volunteer object

1. Go to setup >> click on ObjectManager >> 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:
  - a. Field Label : VolunteerID
  - b. Field Name : gets auto generated
  - c. Click on required check box
  - d. Click on Next >> Next >> Save and new.
  - e. Click on Next >> Next >> Save and new.

## To create another fields in an object:

1. Go to setup >> click on ObjectManager >> 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:
  - a. Field Label : Gender
  - b. Field Name : Gender
  - c. Enter values, with each value separated by a new line : Female  
Male

- d. Click on Next >>Next >> Save and new.

**To create another fields in an object:**

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

**To create another fields in an object:**

9. Go to setup >>click on ObjectManager >> 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:
  - a. FieldLabel : Age
  - b. Field Name : Age
  - c. Click on required check box
  - d. Click on Next >> Next>> Save and new.

**To create another fields in an object:**

13. Go to setup >>click on ObjectManager >> 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:
  - a. Field Label: Email
  - b. Field Name : Email
  - c. Click on required check box
  - d. Click on Next>> Next >> Save and new.

**To create another fields in an object:**

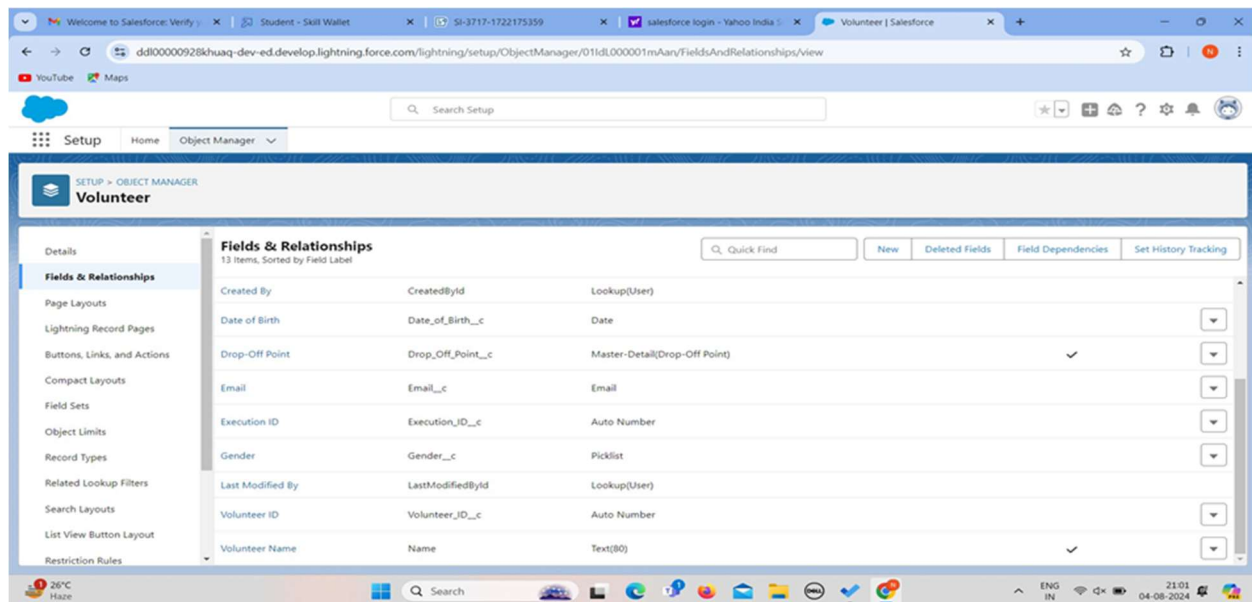
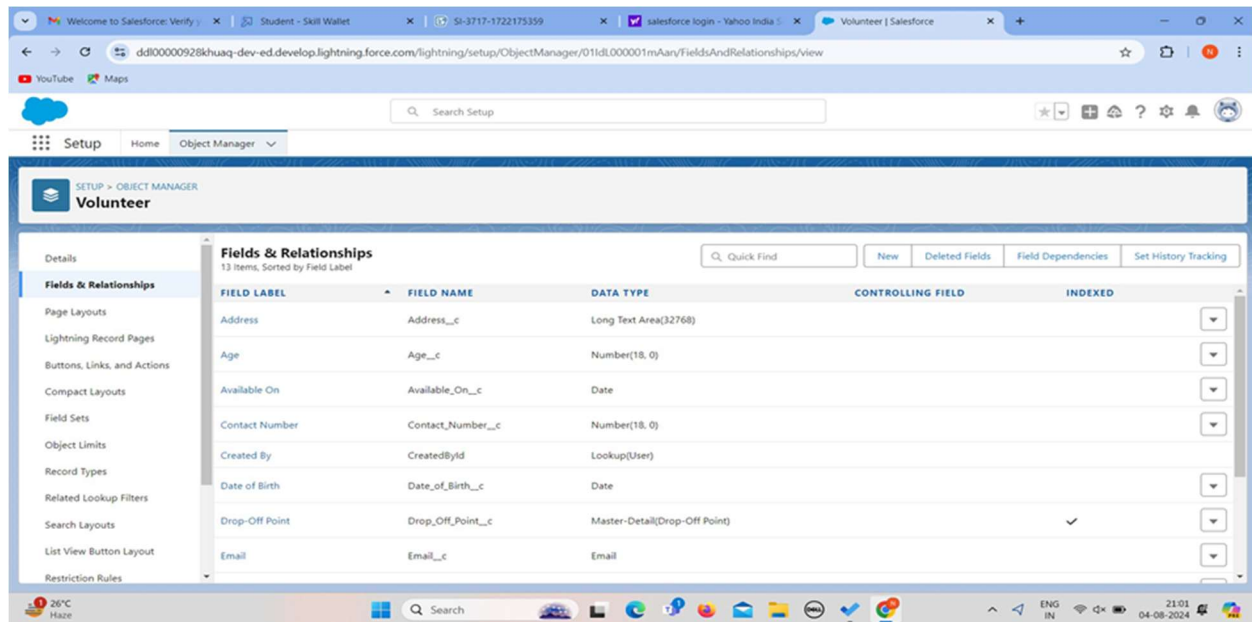
17. Go to setup >>click on ObjectManager >> type object name(Volunteer) in search bar >> click on the object.
18. Now click on "Fields & Relationships" >>New
19. Select Data type as a "Number"and Click on Next
20. Fill the Above as following:
  - a. FieldLabel : Contact Number
  - b. Field Name : Contact\_Number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

**To create another fields in an object:**

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

**To create another fields in an object:**

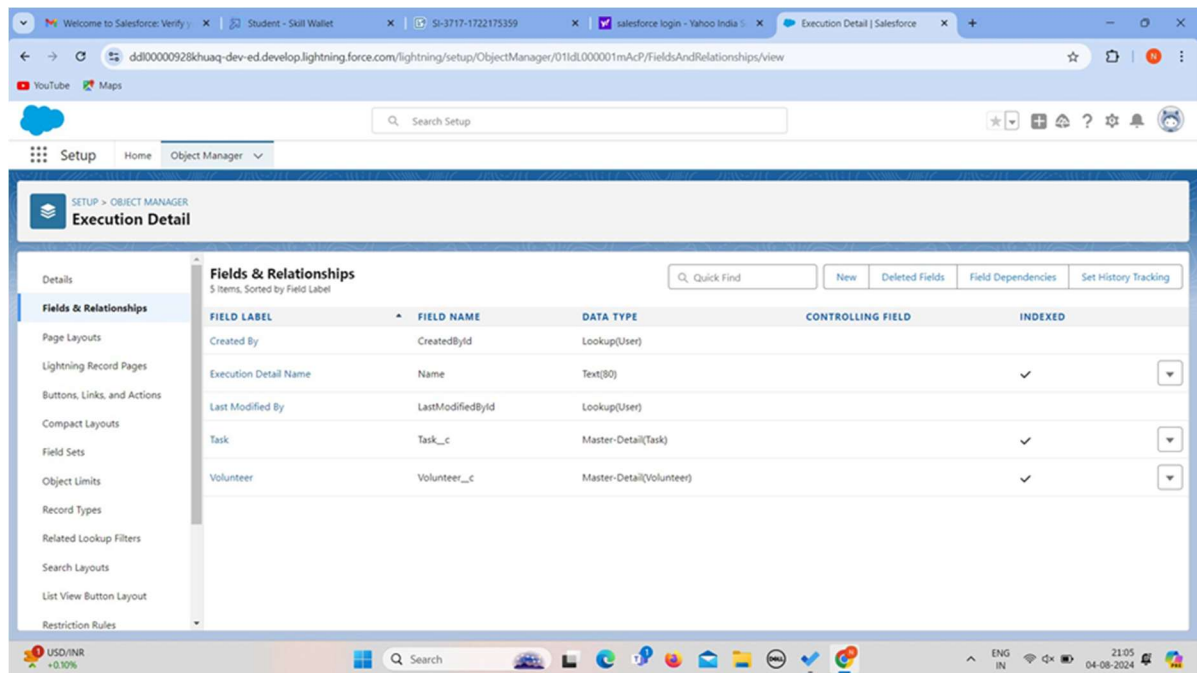
25. Go to setup >>click on ObjectManager >> type object name(Volunteer) in search bar >> click on the object.
26. Now click on "Fields & Relationships" >>New
27. Select Data type as a "Date"and Click on Next
28. Fill the Above as following:
  - a. Field Label: Date of Birth
  - b. Field Name : Date\_of\_Birth
  - c. Click on Next >>Next >> Save and new.



## Creation of fields for the Execution Details object

1. Go to setup>> click on Object Manager>> type objectname(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:

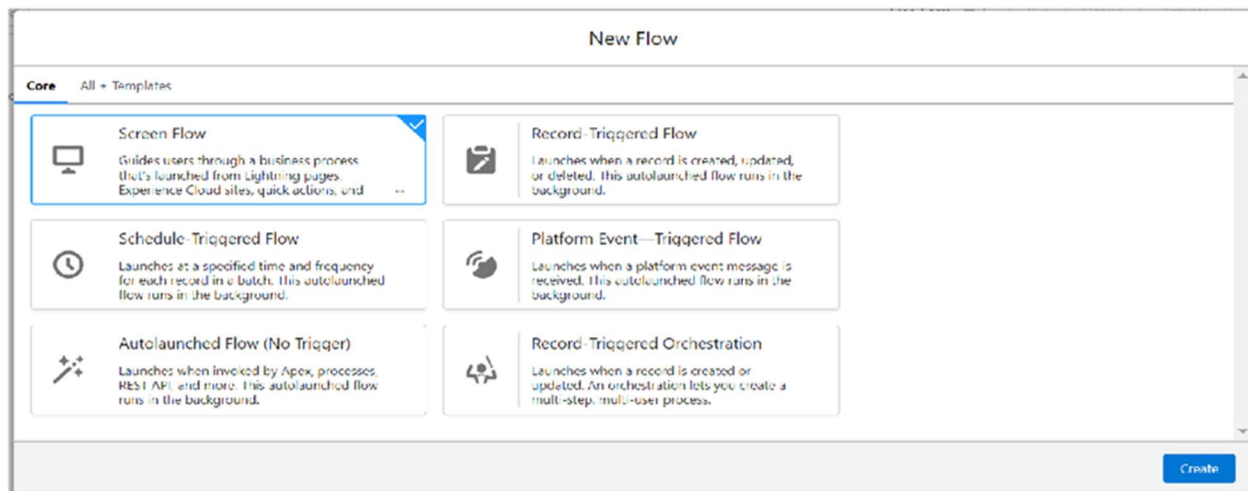
- Field Label : Execution ID
- Field Name : gets auto generated
- Click on required check box
- Click on Next >>Next >> Save and new.



## TASK 6: FLOWS

### Create Flow to create a record in Venue object

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

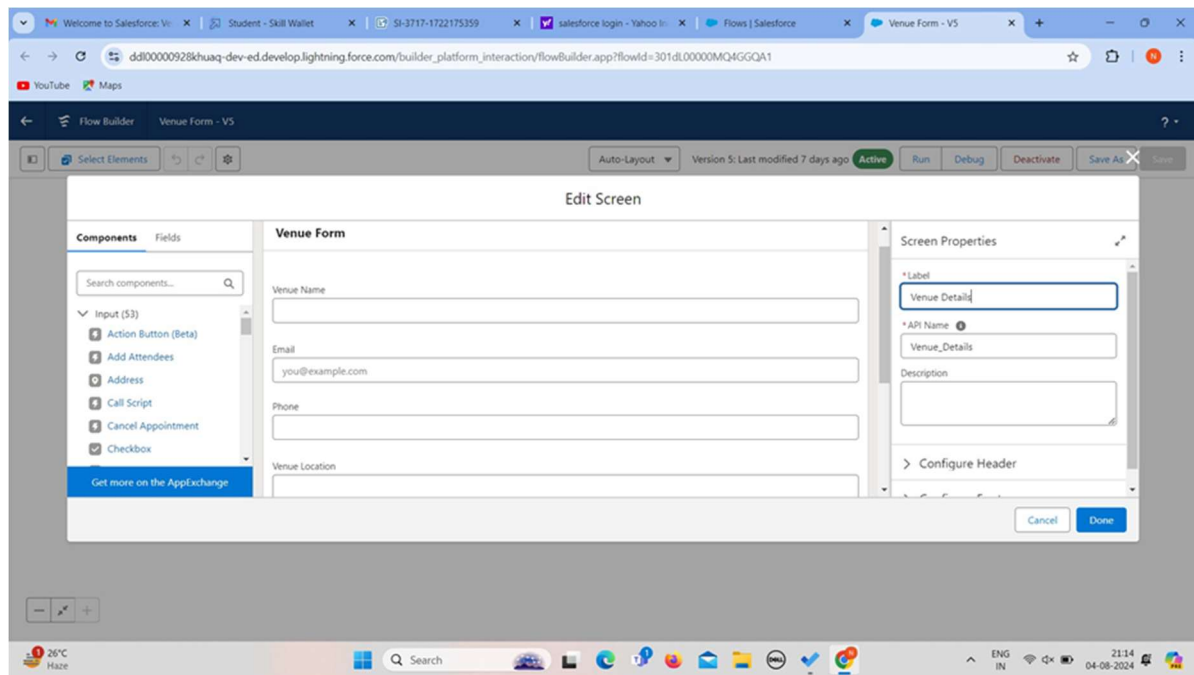


3. Click on the '+' icon in between standard end, and click on screen element.
4. Under the Screen
  - Properties: Label : Venue
  - Details
    - API Name : Venue\_Details
5. Now lets add components in this flow.Click on Text Component and name it as:
  - Label : Venue
  - Name API Name :
    - Venue\_Name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

Name : Create\_Venue\_Record

How Many Records to Create : One

How to Set the RecordFields : 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}

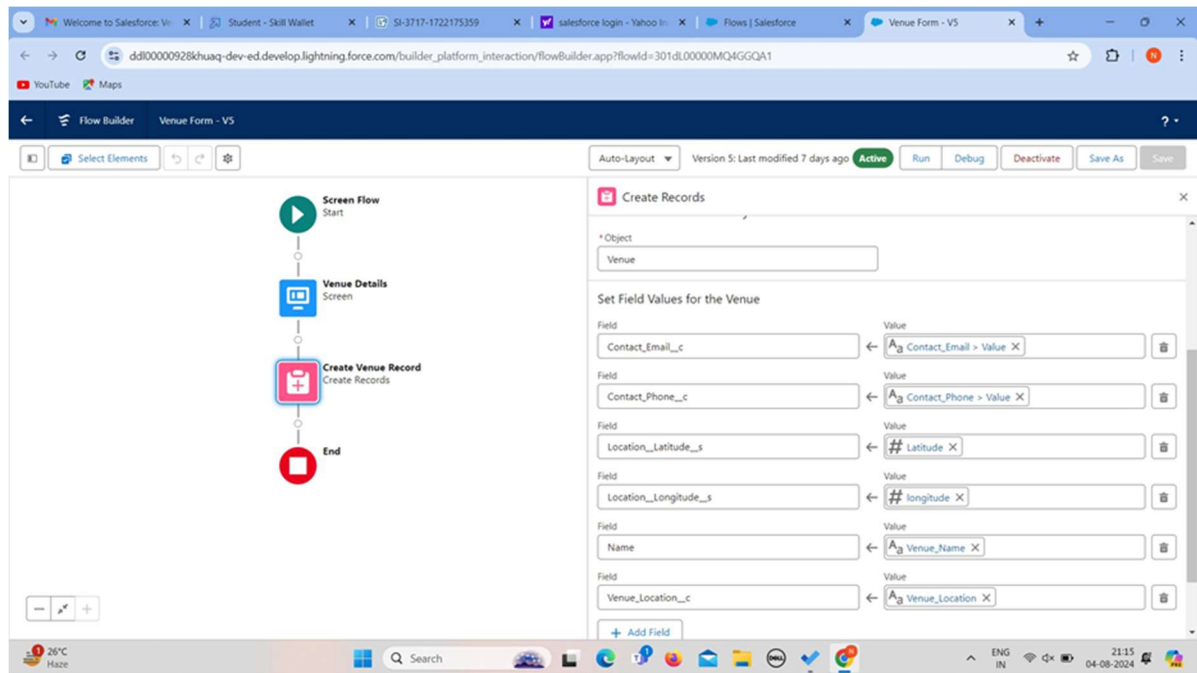
Field : Value = Name : {!Venue\_Name}

Field : Value = Venue\_Location\_\_c : {!location}

Field : Value = Location\_\_Latitude\_\_s : {!latitude}

Field : Value = Location\_\_Longitude\_\_s : {!longitude}

14. This would look like:



15. Click on Save as:

Flow Label : Venue Form

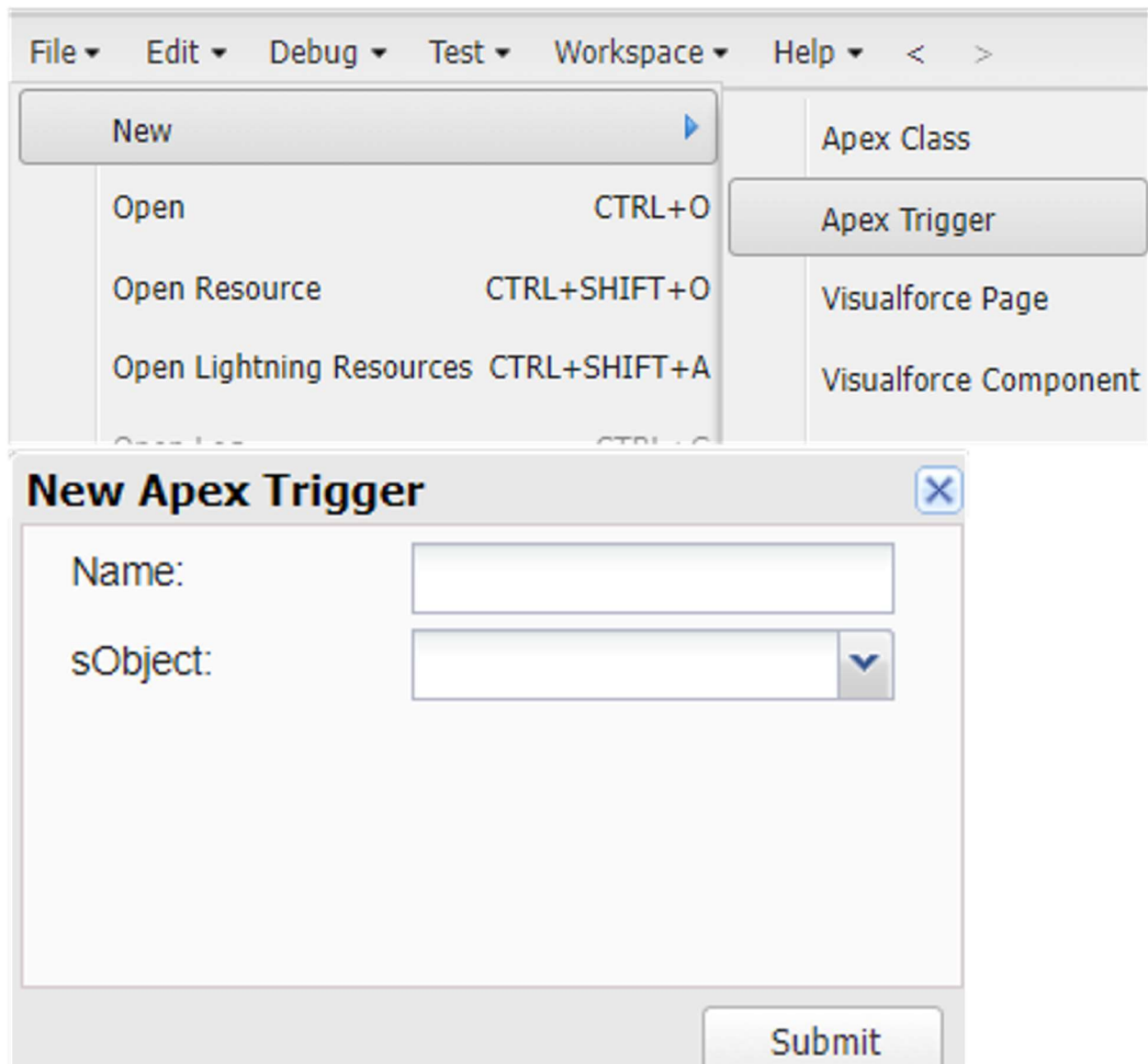
Flow API Name : Venue\_Form

## TASK 7: Trigger

### Create a Trigger

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





5. Enter Name :DropOffTrigger

sObject: Drop-Off Point

6. Click on Submit.

### Trigger Code

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

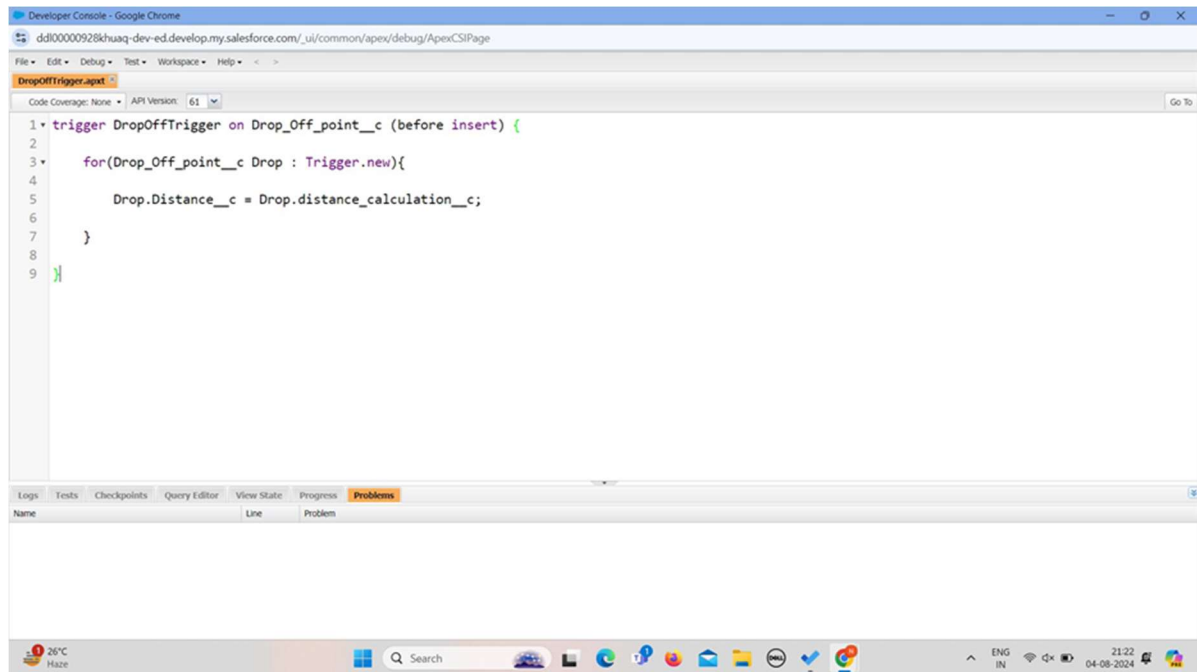
**Code:**

```

trigger DropOffTrigger on Drop_Off_point__c (before insert){
    for(Drop_Off_point__c Drop : Trigger.new){

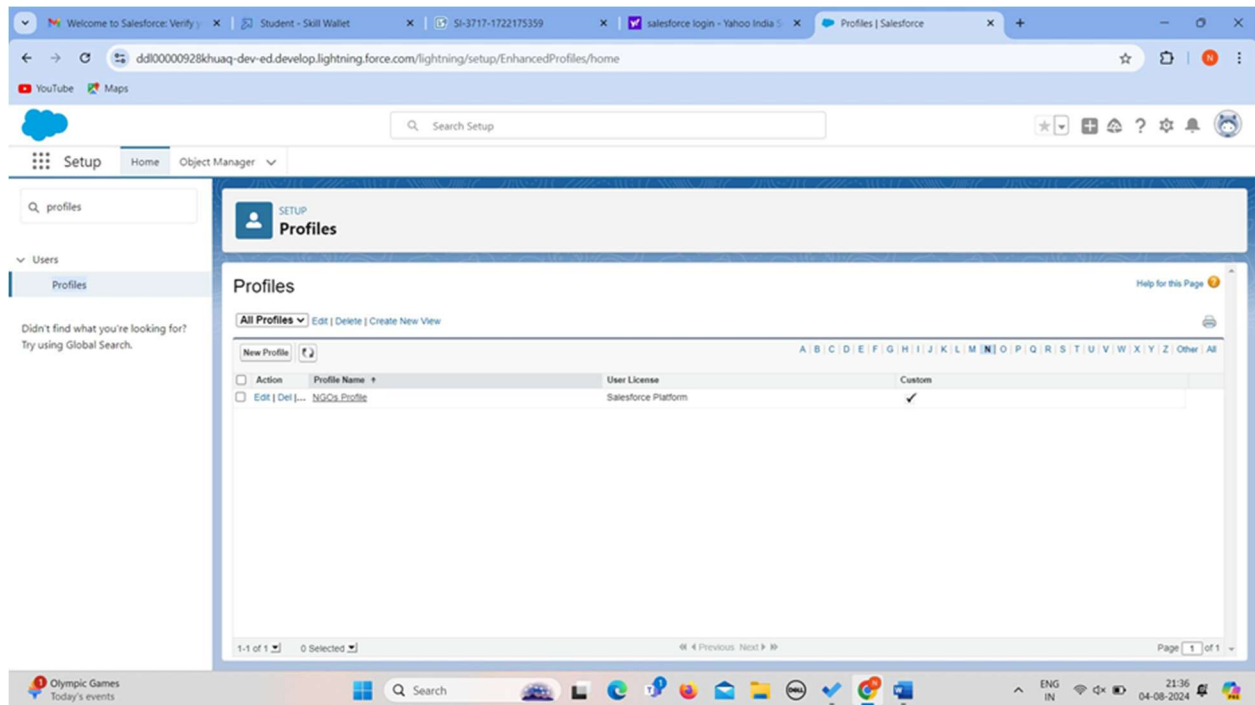
        Drop.Distance__c = Drop.distance_calculation__c;
    }
}

```



## TASK 8: Profiles

1. Go to setup page >> type Profiles in Quick Find bar >> click on Profiles >> click on 'S'
2. Click on Clone beside Standard PlatformUser.
3. Under Clone Profile:  
Profile Name : NGOs Profile
1. Then click on Save



## TASK 9 : Creation of Users

In our Project we consider them as NGO's

### Creation of User1

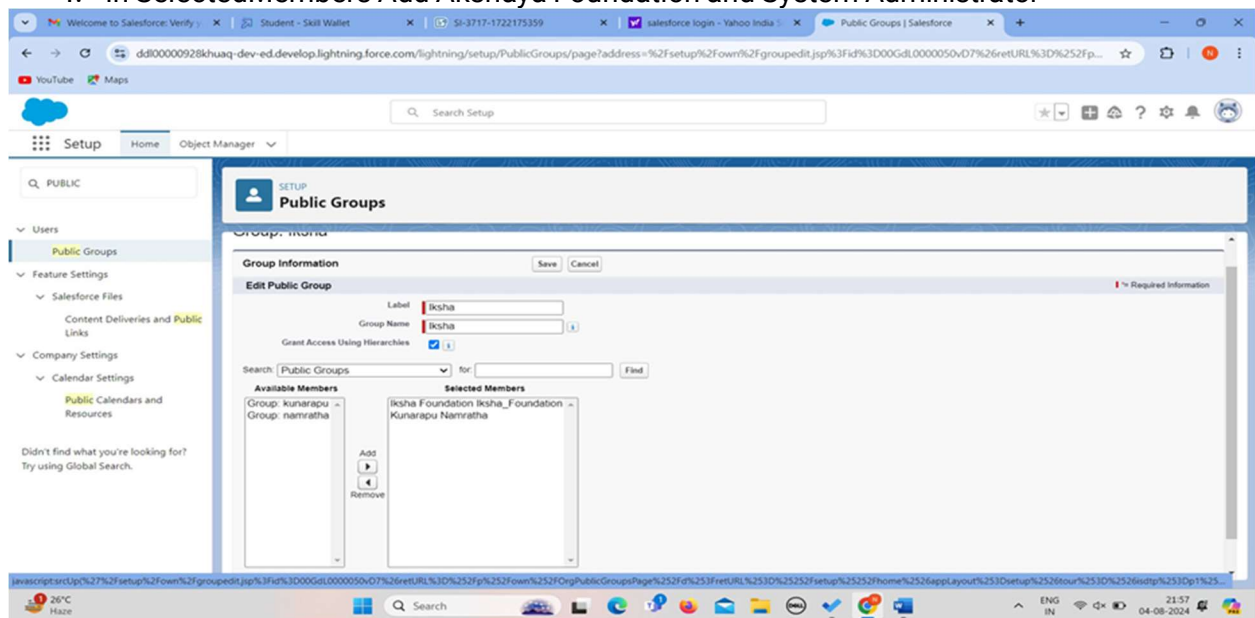
1. Go to setup page >> type users in Quick Find bar >> click on users >> New user.
2. In General Information give details as: (Note : create users as per your wish NGO's)
  - First Name : Akshaya
  - Foundation Last Name :
  - Iksha\_Foundation Alias :
  - sheikh
  - Email : Give Your Email
  - Username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

The screenshot shows the Salesforce 'All Users' page. The left sidebar has 'Users' selected under the 'Setup' menu. The main content area is titled 'All Users' and includes a description: 'On this page you can create, view, and manage users. To get more licenses, use the Your Account app. Let's Go'. Below this is a 'View:' dropdown set to 'All Users' and a link to 'Create New User'. A table of users is displayed with columns: Action, Full Name, Alias, Username, Role, Active, and Profile. The table lists several users, including 'Chatter Expert', 'Isha Foundation', 'Kunaraou', 'Namrata', 'Namrata Kunaraou', 'User Integration', and 'User Security'. The 'Active' column shows checkmarks for all listed users. The 'Profile' column lists various roles like 'Chatter Free User', 'NGOs Profile', 'System Administrator', 'NGOs Profile', 'Analytics Cloud Integration User', and 'Analytics Cloud Security User'. At the bottom of the table are links for 'New User', 'Reset Password(s)', and 'Add Multiple Users'.

# TASK 10:Public Groups

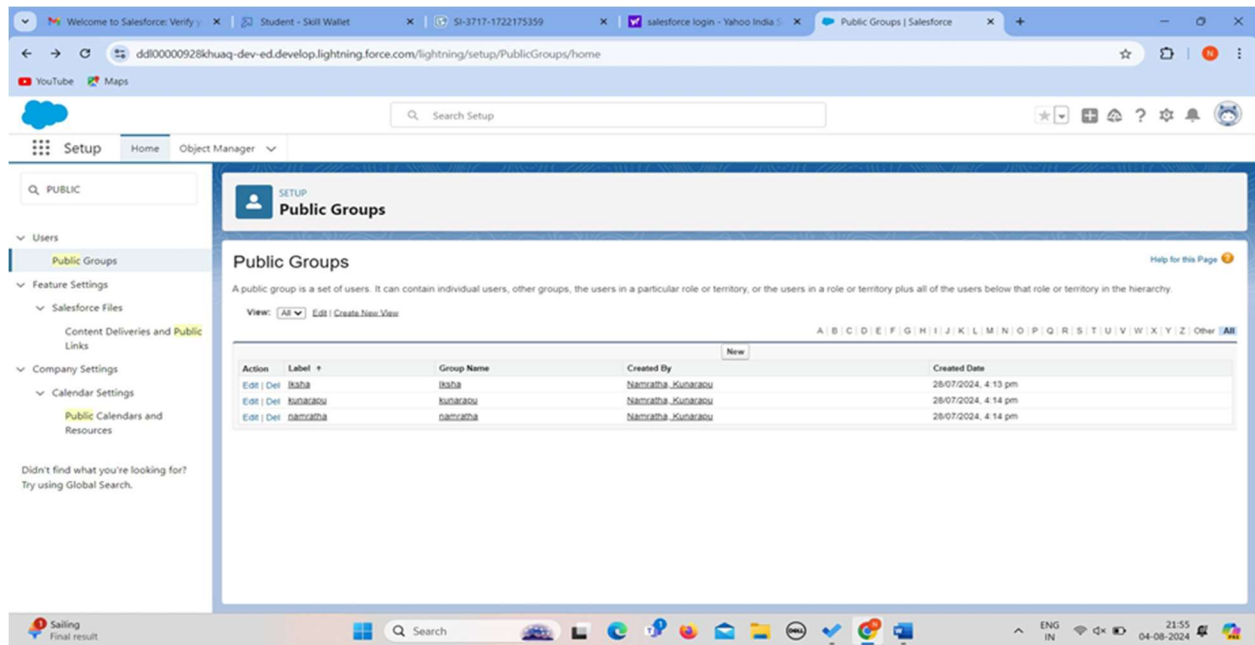
## Creation of Public Group 1

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



## Creation of Public Group 2

1. By FollowingSteps in Activity1, Create other two Public Groups for other two users.
2. AfterSaving this would look like this.

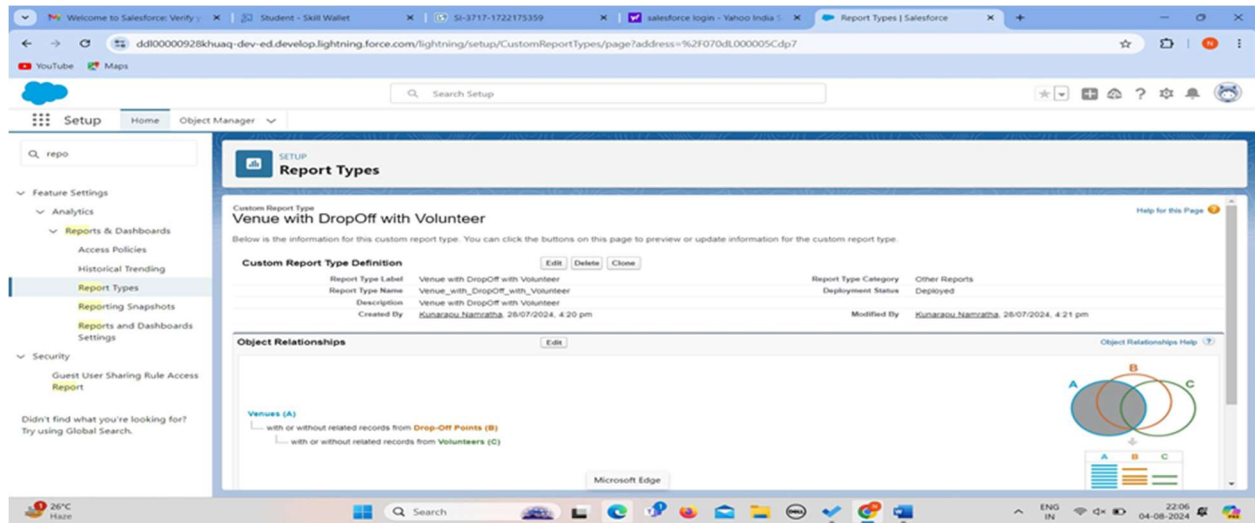


## TASK 11: Report Types

### Creation of ReportTypes

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 ReportType: 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 OtherReports  
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 SelectVolunteers.

## 7. Now click on Save



## TASK 12:Reports

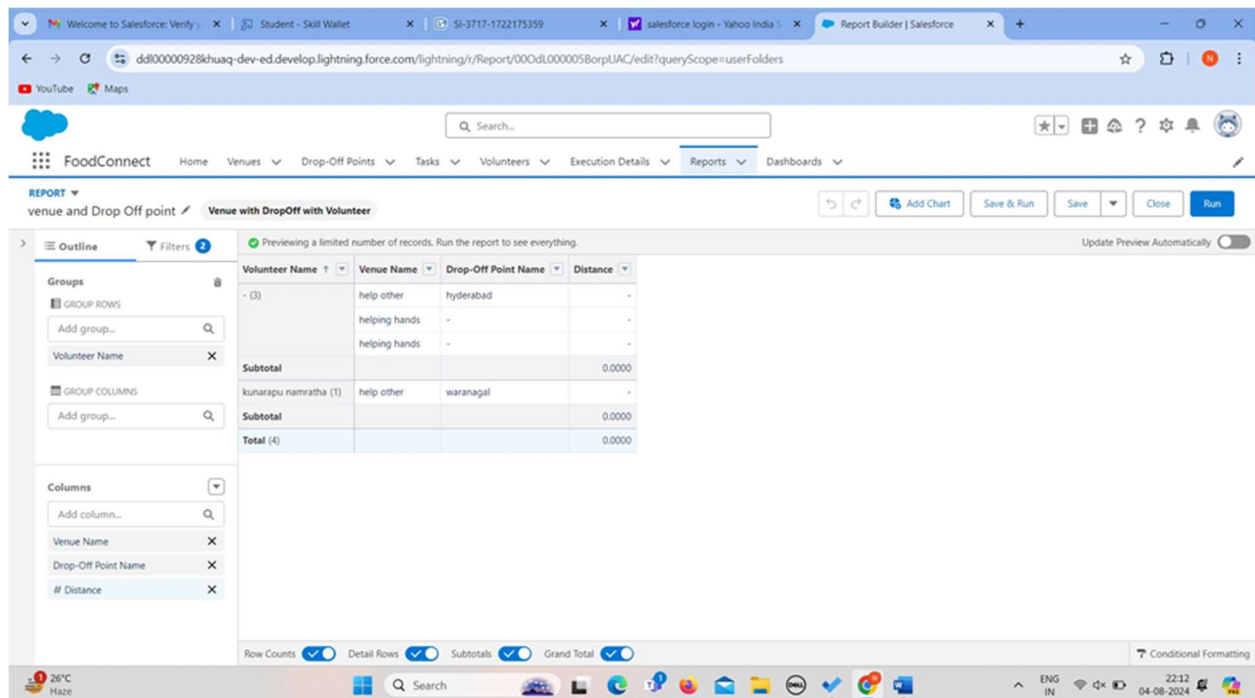
### Creation of Report on Venue with DropOff with Volunteer

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 CustomReports and click on New Report
4. Select ReportType : Venue with DropOffwith Volunteer
5. Then click on Start Report.
6. In GROUP ROWS : Add Volunteer Name
7. In Columns: Add Venue Name, Drop-Offpoint Name, Distance.
8. Now click on Save & Run.
9. GiveLabel as :
10. Report Name : venue and Drop Off point
11. Report UniqueName : Auto Populated
12. Click on Select Folder and select CustomReport, then click on Save.



## Creation of Report on Volunteers with Execution Details and Tasks

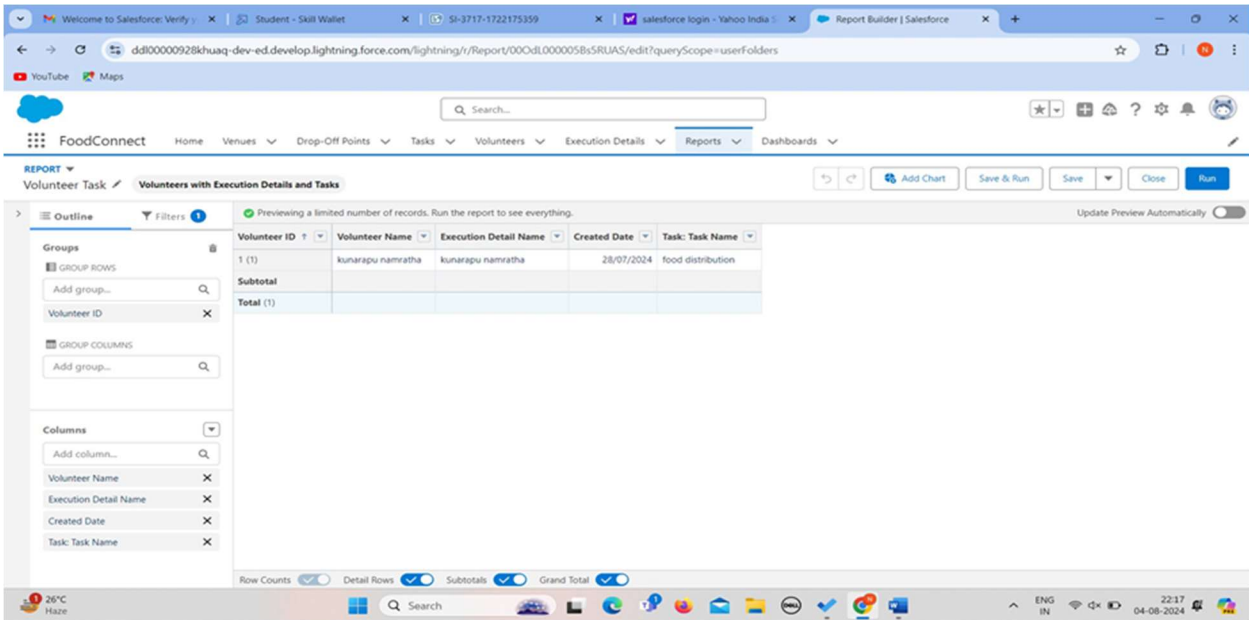
1. Go to the app(FoodConnect) >> click on the reports tab
2. Click on Custom ReportsFolder and click on New Report
3. Select ReportType : Volunteers with ExecutionDetails and Tasks.
4. Then click on Start Report.
5. In GROUP ROWS : Volunteer ID
6. In Columns: Add Volunteer : VolunteerName, Task : Task Name, Execution Detail : Execution Detail Name, Volunteer: Owner Name, Task: Date, Task : Rating.
7. Now click on Save & Run.
8. GiveLabel as :

Report Name : Volunteer Task

Report Unique Name : Auto Populated

1. Click on Select Folder and select CustomReport, then click on Save.





## TASK 13: Dashboards

### Adding venue and Drop Off point Report to the Dashboard

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 CustomDashboards 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)

Report

venue and Drop Off point

☐ Use chart settings from report

Display As

123

Groups

Add group...

Columns

Preview

venue and Drop Off point

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	-	-

View Report (venue and Drop Off point)

Now click on save.

## Adding Volunteer Task Report to the Dashboard

1. Click on Widget and select Chart or Table
2. In SelectReport : Select Volunteer Task Report.
3. Then click on select
4. In Add Component:

Display As : Select Line Chart

Component Theme : Select Dark (Optional)

Report

Volunteer Task

☐ Use chart settings from report

Display As

123

X-Axis

Volunteer ID

Y-Axis

Preview

Volunteer Task

View Report (Volunteer Task)

Now click on save.

## 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 SelectFolder and select Custom Dashboards

4. Click on Select Folder and then Save.

The screenshot shows a Salesforce Lightning Dashboard titled "Task Execution Details" with a subtitle "As of 04-Aug-2024, 10:31 pm Viewing as Kunarapu Namratha". The dashboard includes a navigation bar with "FoodConnect" and various menu items like Home, Venues, Drop-Off Points, Tasks, Volunteers, Execution Details, Reports, and Dashboards. The main content area features three widgets: "venue and Drop Off point" (a table), "Volunteer Task" (a line chart), and a large image of volunteers serving food. The table and chart both have "View Report" links below them.

Venue Name	Drop-Off Point Name	Distance
helping hands	-	-
helping hands	-	-
help other	waranagal	-
help other	hyderabad	-

View Report (venue and Drop Off point)

Volunteer Task

Record Count

1

0.5

0

1

Volunteer ID

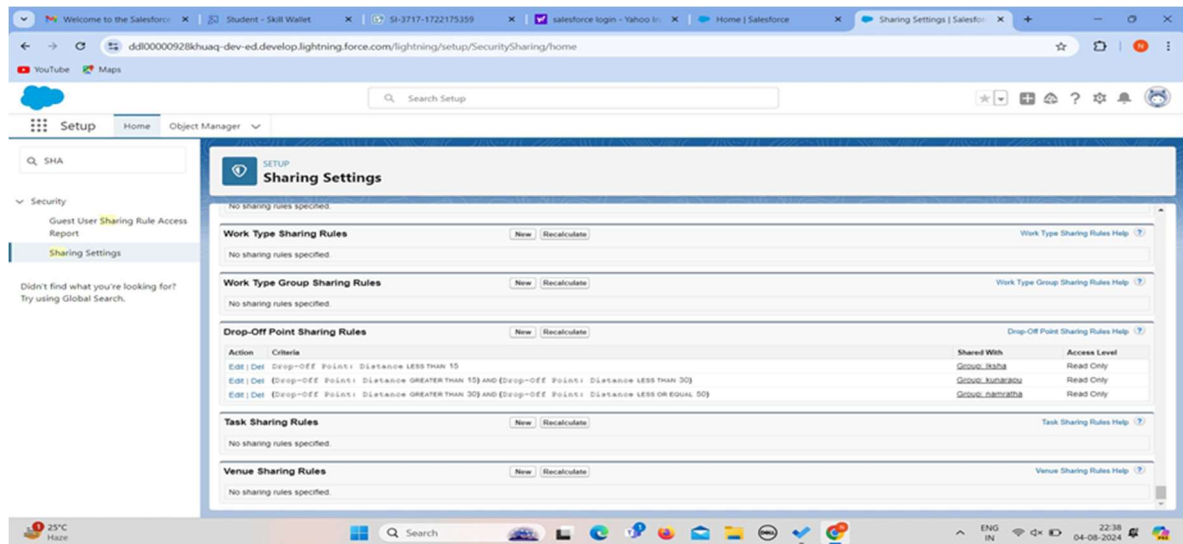
View Report (Volunteer Task)

## TASK 14: Sharing Rules

### 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 pointSharing Rules.
3. Click on new near Drop-Off pointSharing Rules and Name it as:  
Label : Rule 1  
Rule Name : Rule\_1
4. Select your rule type : SelectBased 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 : SelectBased 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 pointSharing Rules and Name it as:  
Label : Rule 3  
Rule Name : Rule\_3
14. Select your rule type : SelectBased 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.



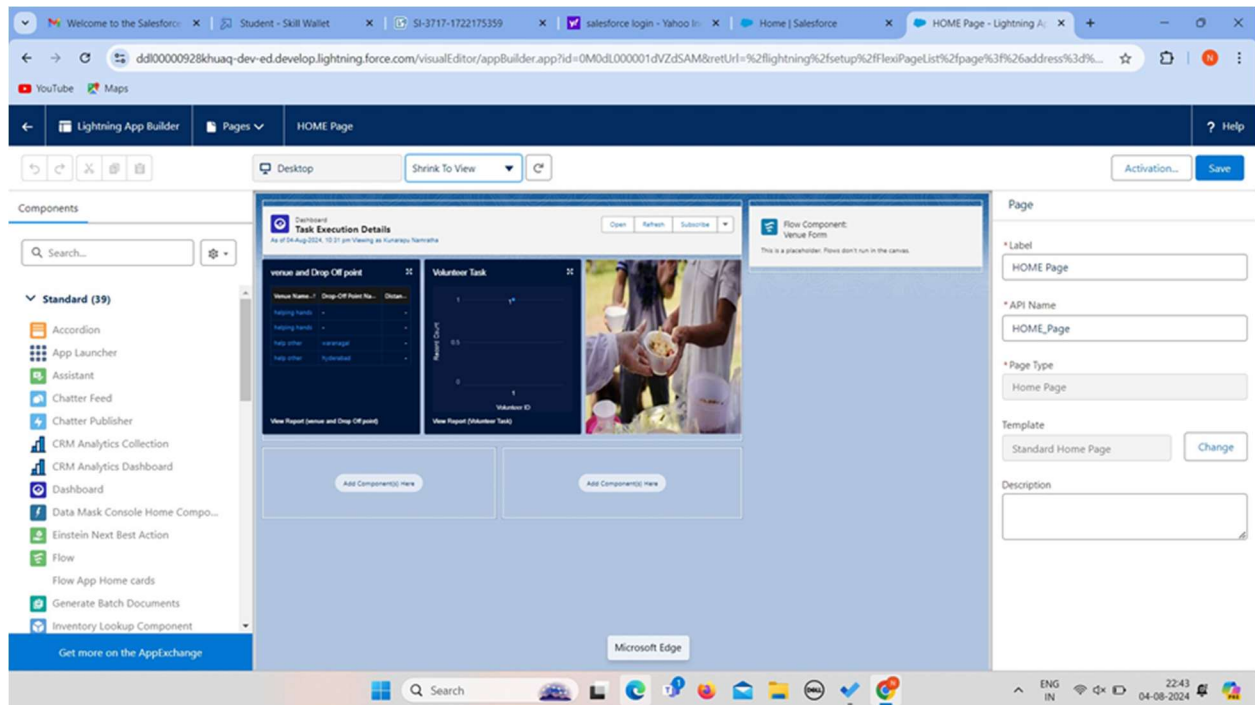
## TASK 15:Home Page

### Creation of Home Page

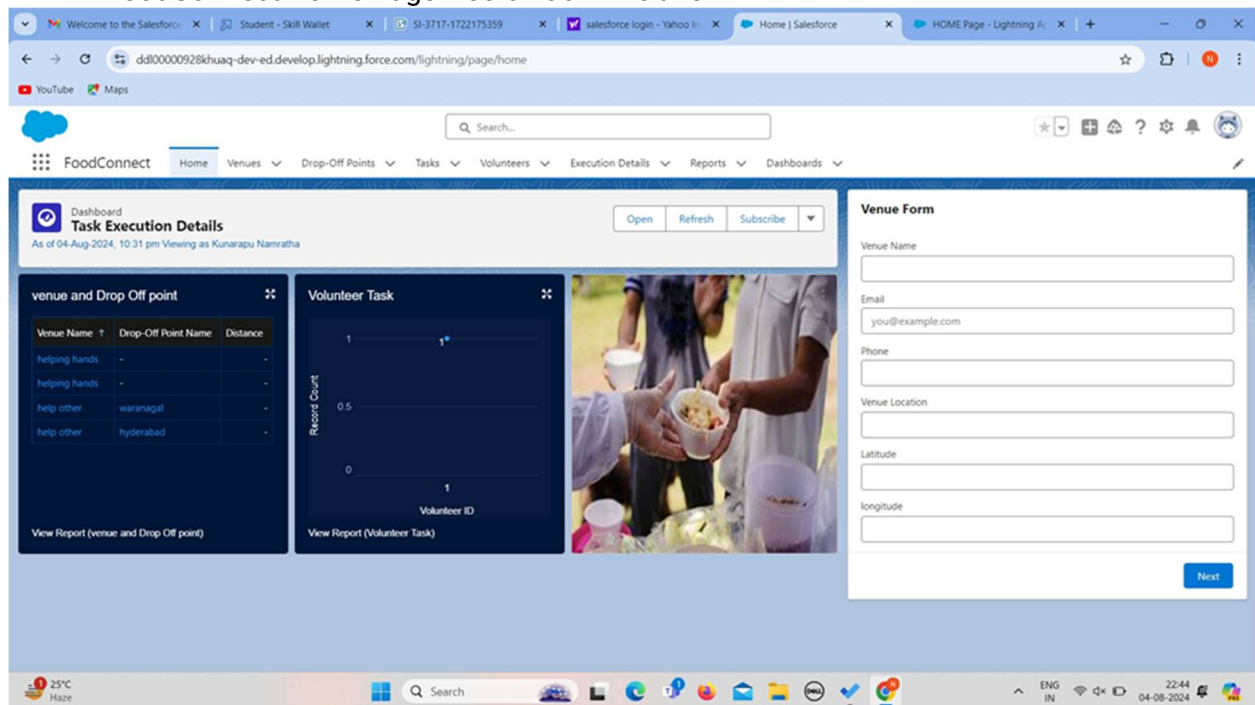
1. Go to setup >>type Lightning App Builder in quick find box >>Click on the Lightning App Builder and Select the New.
2. Select Home Page and give Label as HOME Page.
3. Select Standard Home Page.
4. Near Components search for Flow and Drag and Drop in Right Side Section..
5. On the right hand side:

Flow : VenueFlow

6. Near Components search for Dashboard, then Drag and Drop it in first Section.



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 maximising the utilization of available resources.