



# To Supply Leftover Food to Poor

**TEAM LEADER : SUJITHA.A**

**TEAM MEMBERS : DEVAPRIYA.S**

**KALAIYARASI.R**

**SWATHI.C**

Username: 23csbs45sujitha@mailamengg.com

Password:Sujitha@03



## PROJECT ABSTRACT

Food waste is a significant issue worldwide, with tons of food being discarded daily while many people suffer from hunger. This project aims to develop a Salesforce-based solution to streamline the process of collecting and distributing leftover food to those in need. By leveraging the capabilities of Salesforce, we can efficiently manage the logistics, ensure food safety, and maximize the impact of food donations.

This project will minimize food waste by redirecting surplus food to the poor, ensuring timely and efficient distribution. It will also enhance transparency through real-time tracking and reporting of food donations and distributions. Additionally, the project will engage volunteers and donors, facilitating their involvement in the food redistribution process.

The methodology involves integrating Salesforce CRM to create a centralized system for managing food donations, donors, volunteers, and beneficiaries. A portal will be developed for food establishments to register and report surplus food. Volunteers will be coordinated through a registration and assignment module to ensure efficient food pick-up and delivery. A system will be implemented for identifying and registering individuals and communities in need of food assistance. Logistics management will be optimized using Salesforce's capabilities, and real-time tracking will be enabled through Salesforce's reporting and dashboard



features. A feedback mechanism will be incorporated to continuously improve the process.

Expected outcomes include a significant reduction in food waste from participating establishments, improved food access for needy individuals and communities, higher participation rates from volunteers and donors, and clear and transparent reporting of all activities related to food collection and

distribution. This Salesforcebased project addresses the dual issues of food waste and hunger by creating an efficient system for redistributing leftover food. By leveraging Salesforce's robust features, the project aims to create a sustainable and scalable solution that can be adopted by communities worldwide.

## 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 centralized 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 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

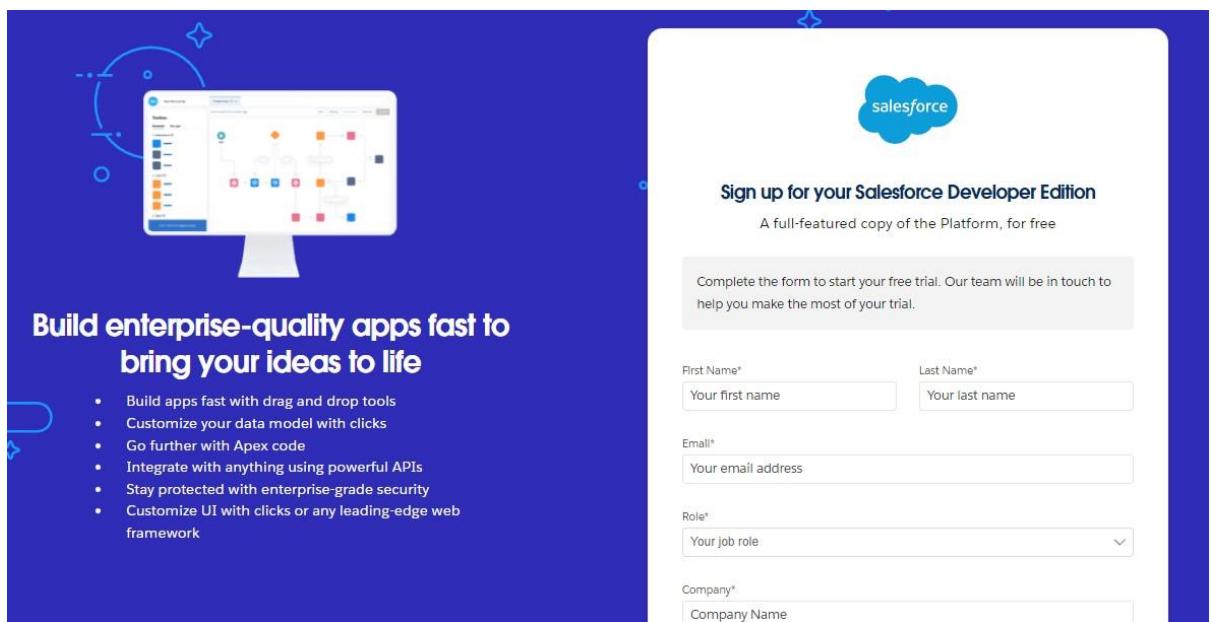
engagement and leveraging technology, we can create a sustainable model that benefits both the environment and society. By addressing logistical challenges and ensuring proper food handling and distribution, this project hopes to set a precedent for how technology can be used to tackle pressing social issues.

## TASK 1: Salesforce developer account creation

### Creating Developer Account

Creating a developer org in salesforce.

1. Go to <https://developer.salesforce.com/signup>
2. 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

1. First name & Last name



2. Email
3. Role : Developer
4. Company : College or Company Name
5. County : India
6. Postal Code : pin code

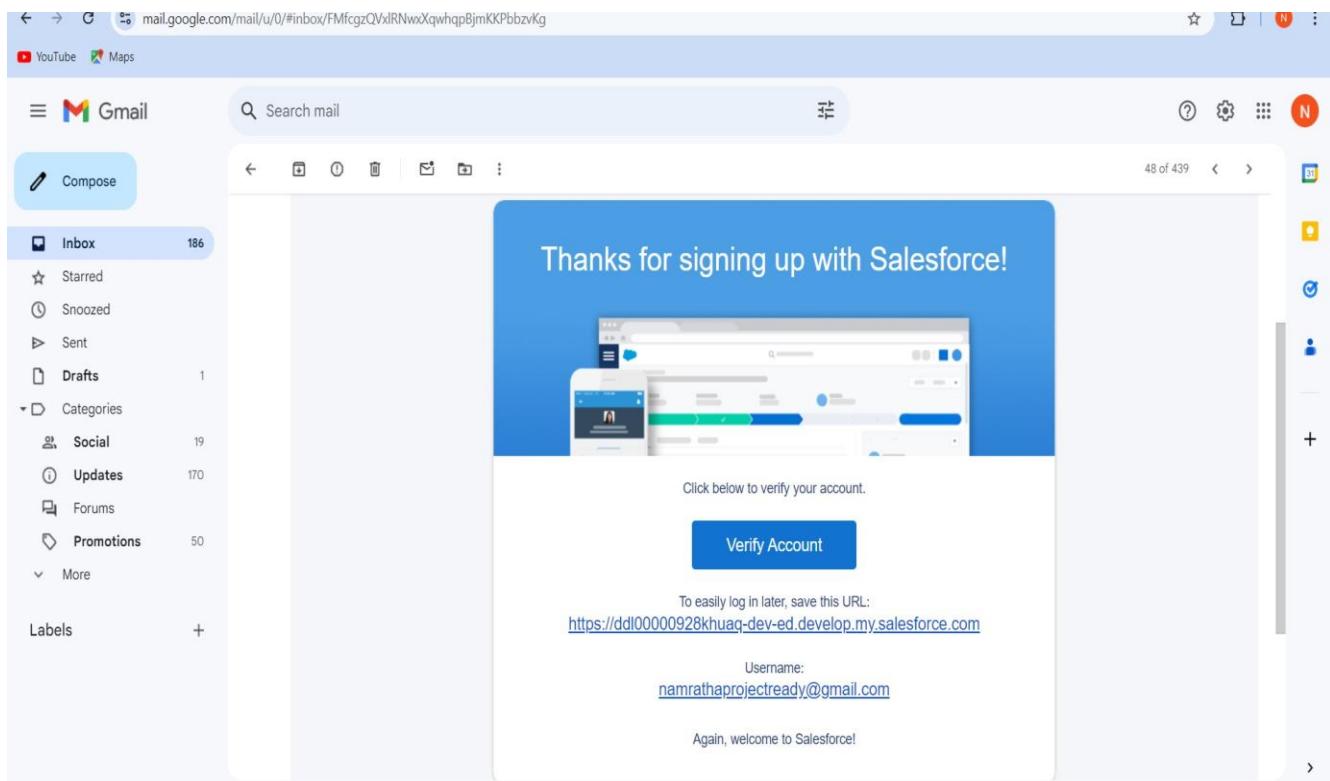
7. Username : should be a combination of  
your name and company

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.

## 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.



2. Click on Verify Account



## Change Your Password

Enter a new password for lead@sb.com.  
Make sure to include at least:

- ✓ 8 characters
- ✓ 1 letter
- ✓ 1 number

\* New Password  
 Good

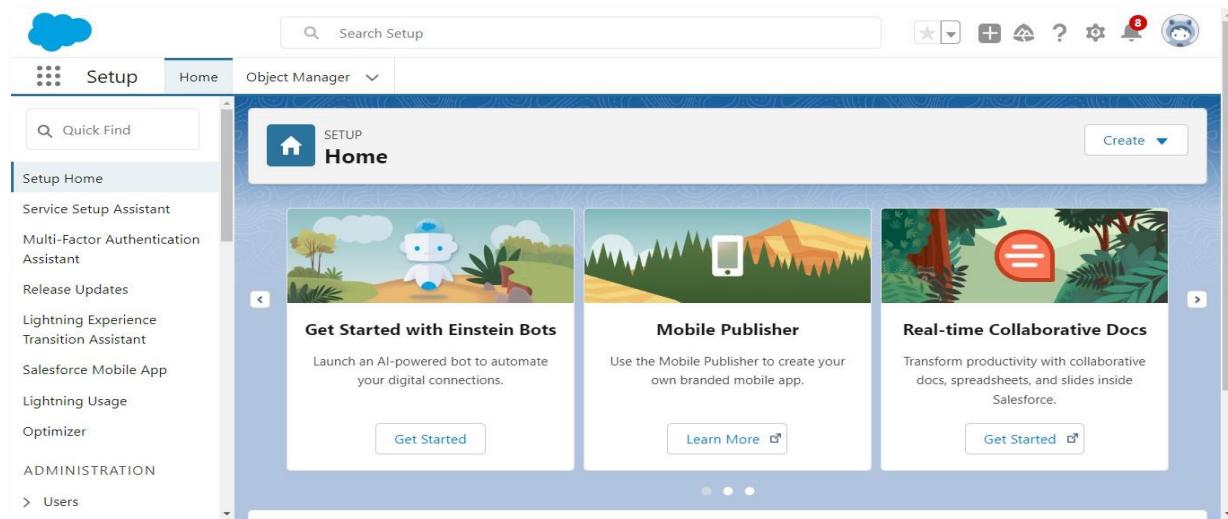
\* Confirm New Password  
 Match

Security Question  
 In what city were you born?

\* Answer  
 asdfghjkl

**Change Password**

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

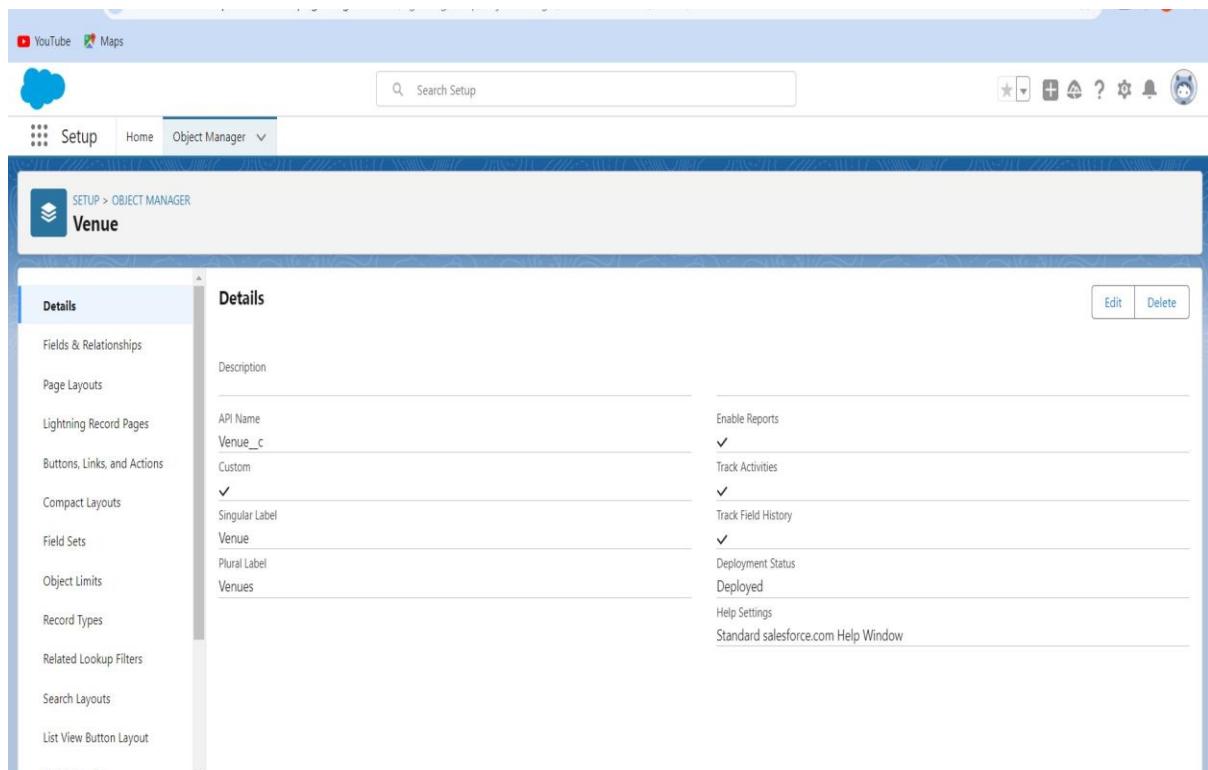


## TASK 2: Objects creation

### 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 Record Name Label and Format
  - Record Name >> Venue Name
  - Data Type >> Text
4. Click on Allow reports and Track Field History,Allow Activities. Allow search >> Save.



The screenshot shows the Salesforce Setup interface. At the top, there are links for YouTube and Maps. Below the header, there is a search bar with the placeholder "Search Setup" and a toolbar with various icons. The main navigation bar includes "Setup", "Home", and "Object Manager". Under "Object Manager", the "Venue" object is selected. On the left, a sidebar lists various setup options: Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts, and List View Button Layout. The main content area is titled "Details" for the "Venue" object. It shows the API Name as "Venue\_c", the Singular Label as "Venue", and the Plural Label as "Venues". On the right, there are checkboxes for "Enable Reports" (checked), "Track Activities" (checked), "Track Field History" (checked), and "Deployment Status" (checked). The status is listed as "Deployed". A link to "Help Settings" and "Standard salesforce.com Help Window" is also present. At the bottom right of the details section are "Edit" and "Delete" buttons.

## 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 Record Name Label and Format
  - Record Name >> Task Name
  - Data Type >> Text



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

Allow search >> Save.

The screenshot shows the Salesforce Object Manager interface for the 'Task' object. The left sidebar lists various setup options: Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts, and List View Button Layout. The main details pane shows the 'Details' section with fields for API Name (Task\_\_c), Singular Label (Task), and Plural Label (Tasks). The settings pane on the right includes checkboxes for 'Enable Reports', 'Track Activities', and 'Track Field History', all of which are checked. There are also sections for Deployment Status (Deployed) and Help Settings (Standard salesforce.com Help Window). Buttons for 'Edit' and 'Delete' are at the top right of the settings pane.

## 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 Record Name Label and Format
  - Record Name >> Volunteer Name
  - Data Type >> Text

- 4.Click on Allow reports and Track Field History, Allow Activities  
Allow search >> Save

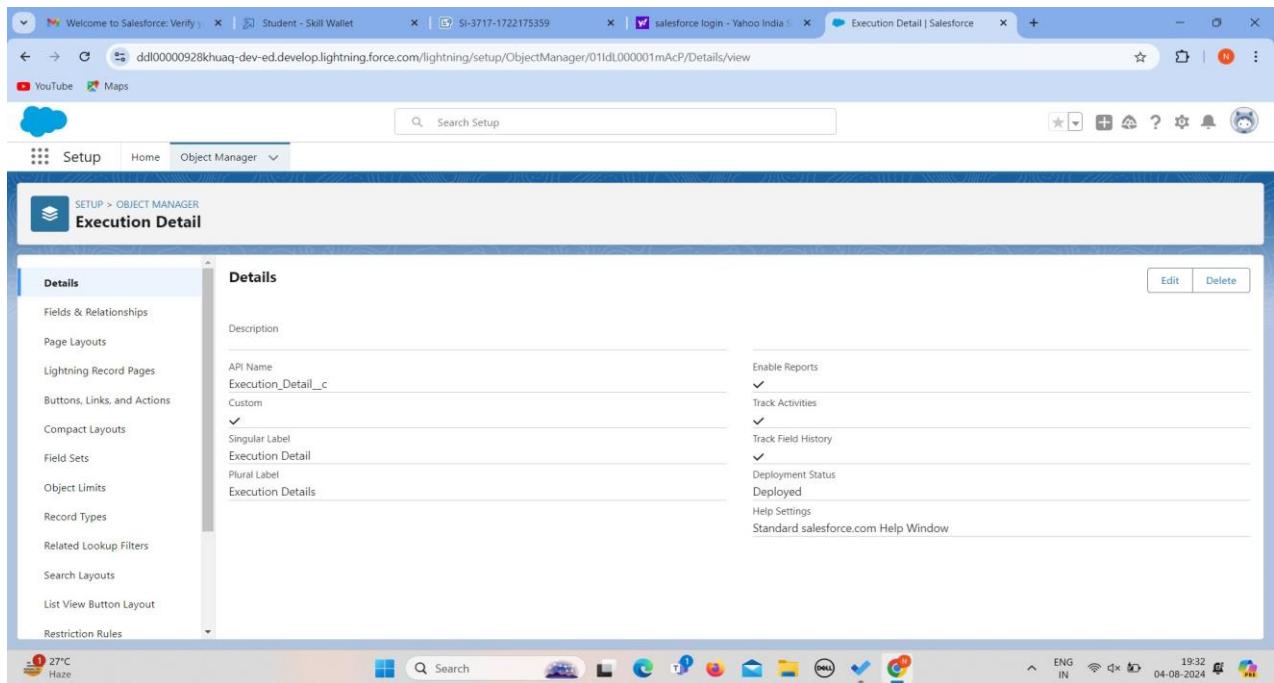


The screenshot shows the Salesforce Setup interface for creating a new object. The left sidebar lists various setup categories like Fields & Relationships, Page Layouts, Buttons, etc. The main area is titled 'Volunteer' under 'OBJECT MANAGER'. The 'Details' tab is selected, showing fields for API Name ('Volunteer\_\_c'), Singular Label ('Volunteer'), and Plural Label ('Volunteers'). On the right, checkboxes for 'Enable Reports', 'Track Activities', and 'Track Field History' are checked. Other settings like Deployment Status ('Deployed') and Help Settings ('Standard salesforce.com Help Window') are also visible. The top navigation bar includes links for 'Setup', 'Home', and 'Object Manager'. The bottom status bar shows the URL, system temperature (27°C), and system date (04-08-2024).

## 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 Record Name >> Execution Detail Name
- Data Type >> Text
3. Click on Allow reports and Track Field History, Allow Activities
4. Allow search >> Save.



The screenshot shows the Salesforce Setup interface with the following details:

- Page Header:** Welcome to Salesforce: Verify..., Student - Skill Wallet, SI-3717-1722175359, salesforce login - Yahoo India, Execution Detail | Salesforce.
- Breadcrumbs:** SETUP > OBJECT MANAGER
- Section:** Execution Detail
- Left Sidebar (Details):**
  - Fields & Relationships
  - Page Layouts
  - Lightning Record Pages
  - Buttons, Links, and Actions
  - Compact Layouts
  - Field Sets
  - Object Limits
  - Record Types
  - Related Lookup Filters
  - Search Layouts
  - List View Button Layout
  - Restriction Rules
- Right Panel (Details):**
  - Description:** Execution Detail
  - API Name:** Execution\_Detail\_c
  - Custom:** ✓
  - Singular Label:** Execution Detail
  - Plural Label:** Execution Details
  - Enable Reports:** ✓
  - Track Activities:** ✓
  - Track Field History:** ✓
  - Deployment Status:** Deployed
  - Help Settings:** Standard salesforce.com Help Window

# TASK 3: Tabs

## Creating a Custom Tab

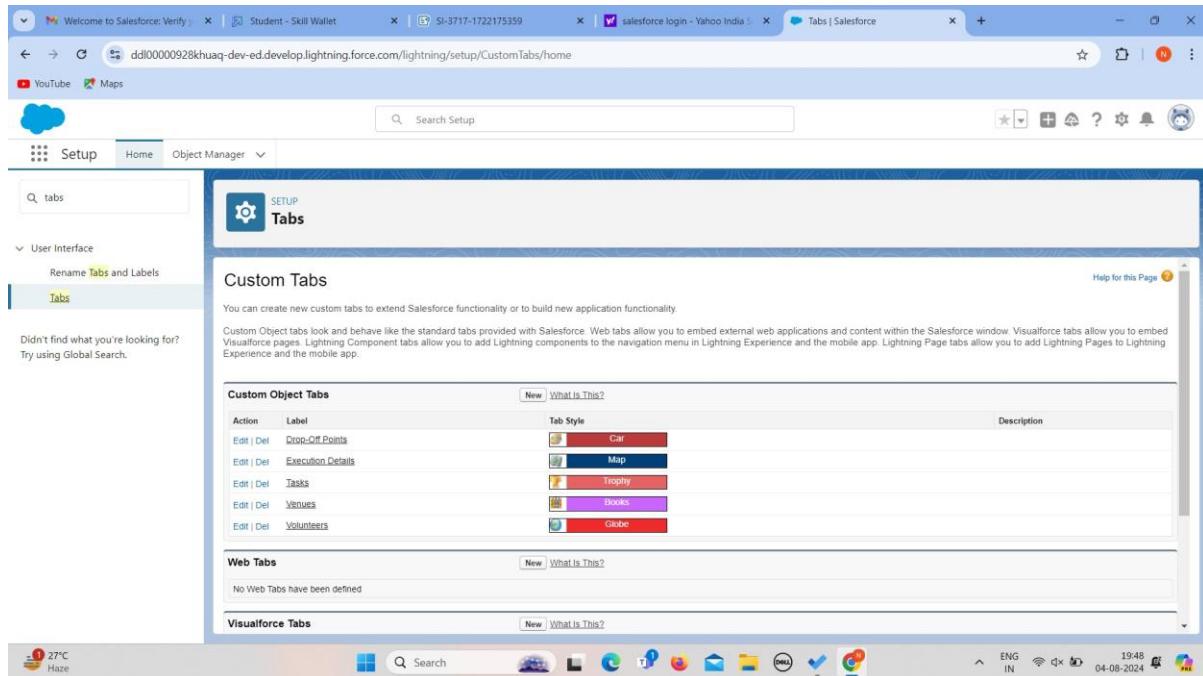
To create a Tab:(Venue)

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-Off Point, Task, Volunteer, Execution Details”.
2. 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 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.



Salesforce Lightning App Builder - FoodConnect - Lightning App

App Settings

App Options

Navigation Items (Desktop Only)

Navigation Items

User Profiles

App Details & Branding

Utility Items (Desktop Only)

Navigation and Form Factor

\* Navigation Style

- Standard navigation
- Console navigation

\* Supported Form Factors

- Desktop and phone
- Desktop

If you don't see all the form factors in this list, it's because this app contains items that prevent selection of one or more options. For example, if an app contains pages assigned to the phone form factor, you can't switch the app to be for desktop only.

App Options

Setup and Personalization

Setup Experience

- Setup (full set of Setup options)
- Service Setup

App Personalization Settings

- Disable end user personalization of nav items in this app
- Disable temporary tabs for items outside of this app
- Use Omni-Channel sidebar

Help

YouTube Maps

Lightning App Builder App Settings Pages FoodConnect

Breaking news Temple wall coll...

Search

ENG IN 19:56 04-08-2024

Salesforce Lightning App Builder - FoodConnect - Lightning App

App Settings

App Options

Utility Items (Desktop Only)

Navigation Items

User Profiles

App Details & Branding

Navigation Items

Choose the items to include in the app, and arrange the order in which they appear. Users can personalize the navigation to add or move items, but users can't remove or rename the items that you add. Some navigation items are available only for phone or only for desktop. These items are dropped from the navigation bar when the app is viewed in a format that the item doesn't support.

Available Items

Type to filter list...

- Accounts
- All Sites
- Alternative Payment Methods
- Analytics
- App Launcher
- Appointment Categories
- Appointment Invitations
- Approval Requests
- Asset Action Sources
- Asset Actions

Selected Items

- Home
- Venues
- Drop-Off Points
- Tasks
- Volunteers
- Execution Details
- Reports
- Dashboards

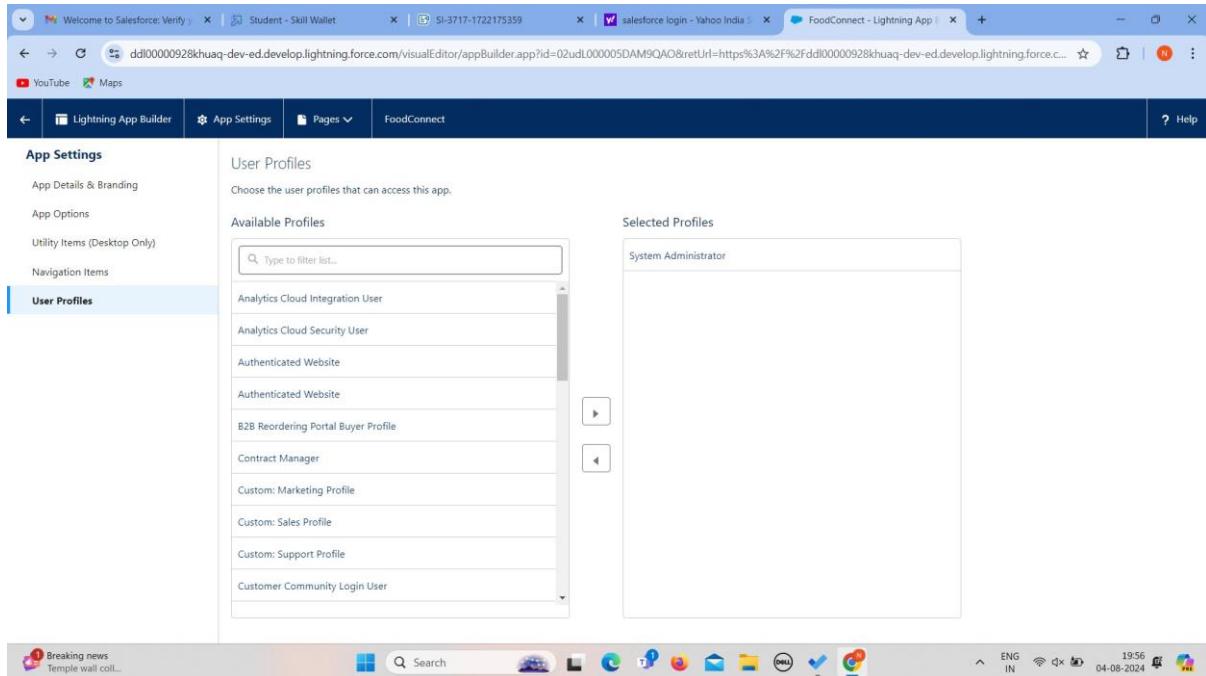
Create

Lightning App Builder App Settings Pages FoodConnect

Breaking news Temple wall coll...

Search

ENG IN 19:56 04-08-2024



# 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 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 :**

1. Go to setup >> click on Object Manager >> type object name(Execution Details) 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 “Volunteer” and click next.
5. Field Name : Volunteer
6. Field label : Auto generated
7. Next >> Next >> Save.

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

1. Go to setup >> click on Object Manager >> type object name(Task) in the search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Lookup relationship
4. Select the related object “Drop-Off Point” and click next.
5. Field Name : Venue
6. Field label : Venue\_\_c
7. Next >> Next >> Save.

### **Creation of Lookup Relationship Field on Task Object :**

1. Go to setup >> click on Object Manager >> type object name(Task) in the search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New



3. Select Lookup relationship

4. Select the related object “Venue” and click next.

5. Field Name : Sponsored By

6. Field label : Auto generated

7. Next >> Next >> Save.

### **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.

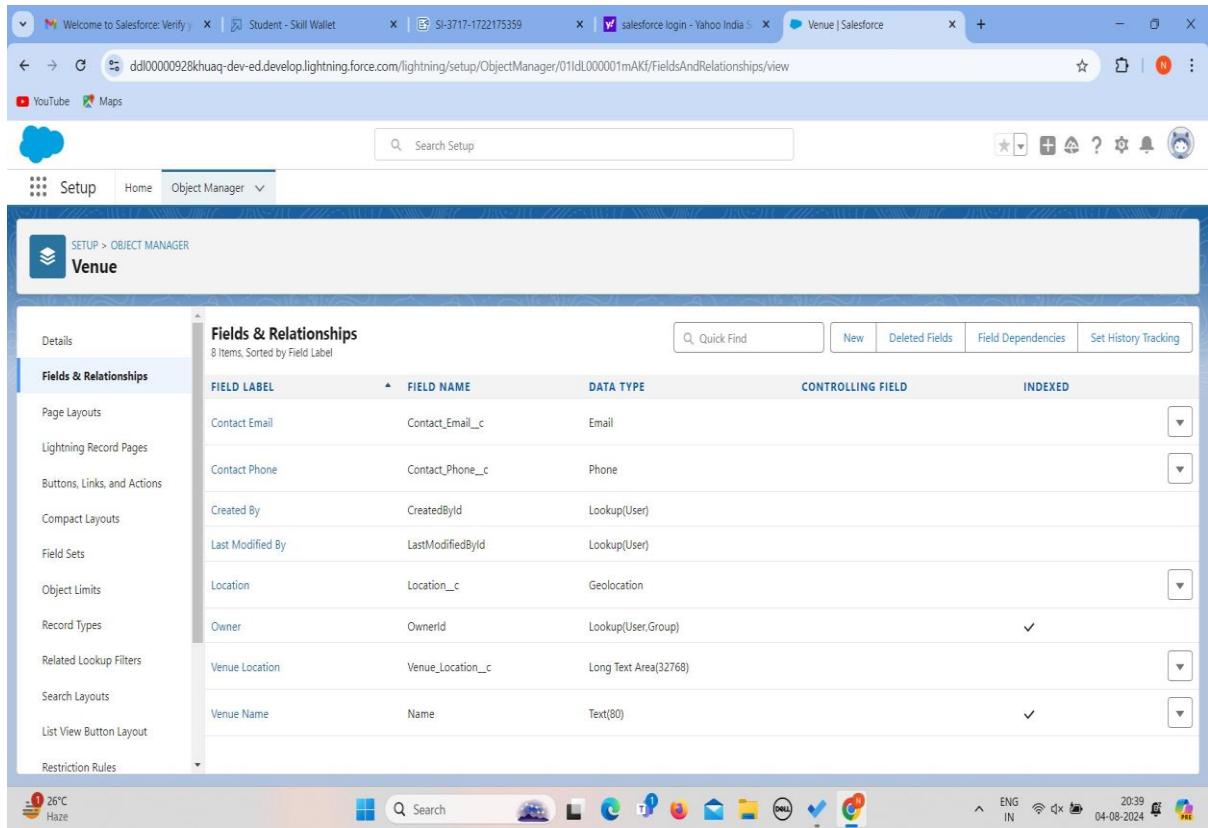


### To create another fields in an object:

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.



The screenshot shows the Salesforce Object Manager interface for the 'Venue' object. On the left, a sidebar lists various setup options like Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, etc. The main content area is titled 'Fields & Relationships' and displays a table of fields. The table has columns for FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED. The fields listed are:

| FIELD LABEL      | FIELD NAME        | DATA TYPE             | CONTROLLING FIELD | INDEXED |
|------------------|-------------------|-----------------------|-------------------|---------|
| Contact Email    | Contact_Email__c  | Email                 |                   | ▼       |
| Contact Phone    | Contact_Phone__c  | Phone                 |                   | ▼       |
| Created By       | CreatedBy         | Lookup(User)          |                   | ▼       |
| Last Modified By | LastModifiedBy    | Lookup(User)          |                   | ▼       |
| Location         | Location__c       | Geolocation           |                   | ▼       |
| Owner            | OwnerId           | Lookup(User,Group)    |                   | ▼       |
| Venue Location   | Venue_Location__c | Long Text Area(32768) |                   | ▼       |
| Venue Name       | Name              | Text(80)              |                   | ▼       |

## 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.

**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.

### **Creation of fields for the Task 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 “Auto Number” and Click on Next
4. Fill the Above as following:

Field Label : Task ID

Display Format : TASK-{0}

5. Starting Number : 1
6. Field Name : gets auto generated

7. Click on required check box

8. 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:

1. Field Label : Date

2. Field Name : Date

3. Click on required check box

4. 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 & Relationships” >> 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.

Welcome to Salesforce: Verify > Student - Skill Wallet > SI-3717-1722175359 > salesforce login - Yahoo India > Drop-Off Point | Salesforce

YouTube Maps

Setup Home Object Manager

SETUP > OBJECT MANAGER Drop-Off Point

**Fields & Relationships**  
9 Items, Sorted by Field Label

| FIELD LABEL          | FIELD NAME              | DATA TYPE          | CONTROLLING FIELD | INDEXED |
|----------------------|-------------------------|--------------------|-------------------|---------|
| Created By           | CreatedBy               | Lookup(User)       |                   |         |
| Distance             | Distance__c             | Number(14, 4)      |                   |         |
| distance calculation | distance_calculation__c | Formula (Number)   |                   |         |
| Drop-Off Point Name  | Name                    | Text(80)           |                   | ✓       |
| Last Modified By     | LastModifiedBy          | Lookup(User)       |                   |         |
| Location 2           | Location_2__c           | Geolocation        |                   |         |
| Owner                | OwnerId                 | Lookup(User,Group) |                   | ✓       |
| State                | State__c                | Picklist           |                   |         |
| Venue__c             | Venue__c                | Lookup(Venue)      |                   | ✓       |

26°C Haze

Welcome to Salesforce: Verify > Student - Skill Wallet > SI-3717-1722175359 > salesforce login - Yahoo India > Task | Salesforce

YouTube Maps

Setup Home Object Manager

SETUP > OBJECT MANAGER Task

**Fields & Relationships**  
16 Items, Sorted by Field Label

| FIELD LABEL             | FIELD NAME                 | DATA TYPE              | CONTROLLING FIELD | INDEXED |
|-------------------------|----------------------------|------------------------|-------------------|---------|
| Name of the Person      | Name_of_the_Person__c      | Text(30)               |                   |         |
| Number of People Served | Number_of_People_Served__c | Number(18, 0)          |                   |         |
| Owner                   | OwnerId                    | Lookup(User,Group)     |                   | ✓       |
| Phone                   | Phone__c                   | Phone                  |                   |         |
| Rating                  | Rating__c                  | Picklist               |                   |         |
| Sponsored By            | Sponsored_By__c            | Lookup(Venue)          |                   | ✓       |
| Task ID                 | Task_ID__c                 | Auto Number            |                   |         |
| Task Name               | Name                       | Text(80)               |                   | ✓       |
| Venue__c                | Venue__c                   | Lookup(Drop-Off Point) |                   | ✓       |

26°C Haze



## **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.



Salesforce Setup - Object Manager

Volunteer

Fields & Relationships

| FIELD LABEL    | FIELD NAME        | DATA TYPE                     | CONTROLLING FIELD | INDEXED |
|----------------|-------------------|-------------------------------|-------------------|---------|
| Address        | Address__c        | Long Text Area(32768)         |                   |         |
| Age            | Age__c            | Number(18, 0)                 |                   |         |
| Available On   | Available_On__c   | Date                          |                   |         |
| Contact Number | Contact_Number__c | Number(18, 0)                 |                   |         |
| Created By     | CreatedById       | Lookup(User)                  |                   |         |
| Date of Birth  | Date_of_Birth__c  | Date                          |                   |         |
| Drop-Off Point | Drop_Off_Point__c | Master-Detail(Drop-Off Point) |                   | ✓       |
| Email          | Email__c          | Email                         |                   |         |

Salesforce Setup - Object Manager

Volunteer

Fields & Relationships

| FIELD LABEL    | FIELD NAME        | DATA TYPE                     | CONTROLLING FIELD | INDEXED |
|----------------|-------------------|-------------------------------|-------------------|---------|
| Address        | Address__c        | Long Text Area(32768)         |                   |         |
| Age            | Age__c            | Number(18, 0)                 |                   |         |
| Available On   | Available_On__c   | Date                          |                   |         |
| Contact Number | Contact_Number__c | Number(18, 0)                 |                   |         |
| Created By     | CreatedById       | Lookup(User)                  |                   |         |
| Date of Birth  | Date_of_Birth__c  | Date                          |                   |         |
| Drop-Off Point | Drop_Off_Point__c | Master-Detail(Drop-Off Point) |                   | ✓       |
| Email          | Email__c          | Email                         |                   |         |



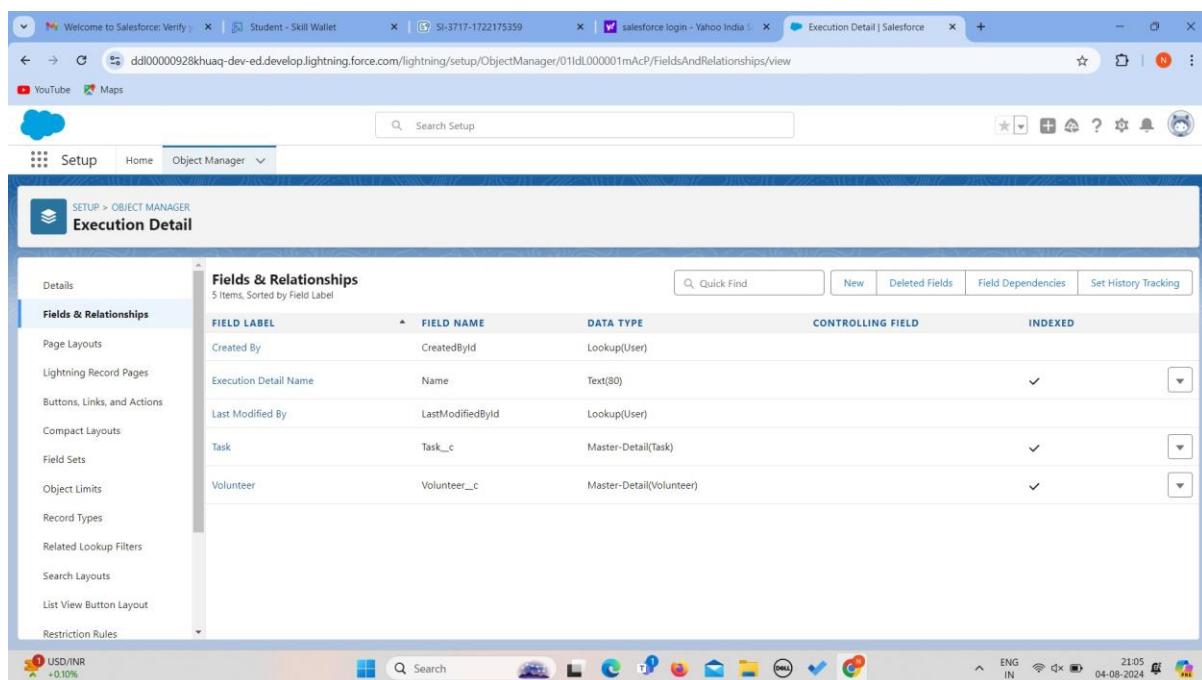
The screenshot shows the Salesforce setup interface. The top navigation bar includes tabs for 'Welcome to Salesforce: Verify...', 'Student - Skill Wallet', 'SI-3717-1722175359', 'salesforce login - Yahoo India', and 'Volunteer | Salesforce'. Below the navigation is a search bar labeled 'Search Setup'. The main content area is titled 'SETUP > OBJECT MANAGER' and shows the 'Volunteer' object. On the left, a sidebar lists various setup categories like 'Details', 'Fields & Relationships', 'Page Layouts', etc. The central panel is titled 'Fields & Relationships' and displays a list of 13 items, sorted by Field Label. The columns show field names, data types, and descriptions. For example, 'Created By' is a 'Lookup(User)' type, and 'Drop-Off Point' is a 'Master-Detail(Drop-Off Point)' type.

## 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.

## 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.
5. Now click on “Fields & Relationships” >> New
6. Select Data type as a “Auto Number” and Click on Next
7. 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.



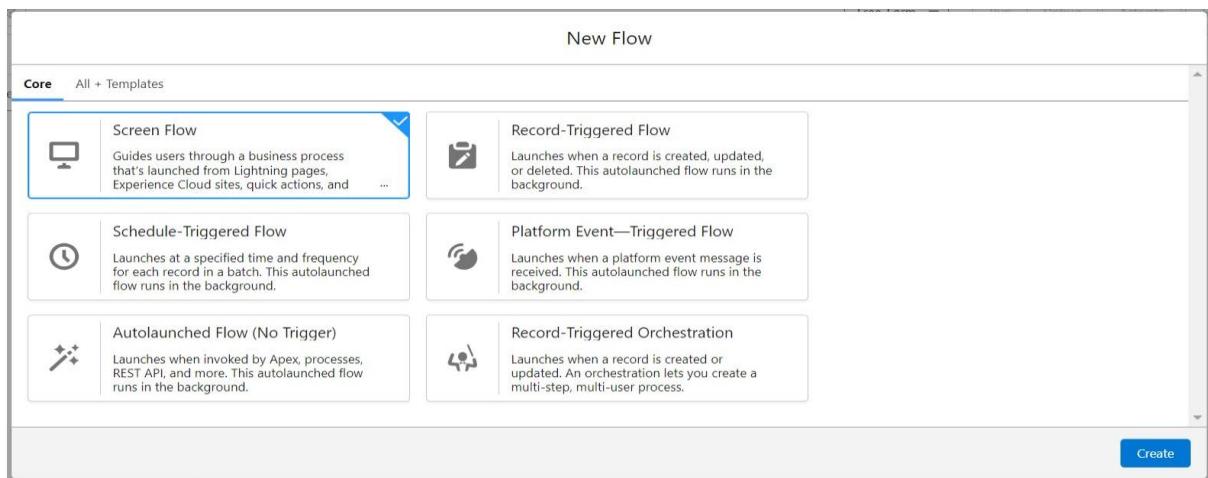
The screenshot shows the Salesforce Object Manager interface. The left sidebar lists various setup options like Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, etc. The main content area is titled "Execution Detail" under "FIELDS & RELATIONSHIPS". It displays five fields: Created By, Execution Detail Name, Last Modified By, Task, and Volunteer. The "Task" field is highlighted with a red border. The "Volunteer" field is also highlighted with a red border. The table includes columns for FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED.

| FIELD LABEL           | FIELD NAME     | DATA TYPE                | CONTROLLING FIELD | INDEXED |
|-----------------------|----------------|--------------------------|-------------------|---------|
| Created By            | CreatedBy      | Lookup(User)             |                   |         |
| Execution Detail Name | Name           | Text(80)                 |                   | ✓       |
| Last Modified By      | LastModifiedBy | Lookup(User)             |                   |         |
| Task                  | Task__c        | Master-Detail(Task)      |                   | ✓       |
| Volunteer             | Volunteer__c   | Master-Detail(Volunteer) |                   | ✓       |

# TASK 6: FLOWS

## 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

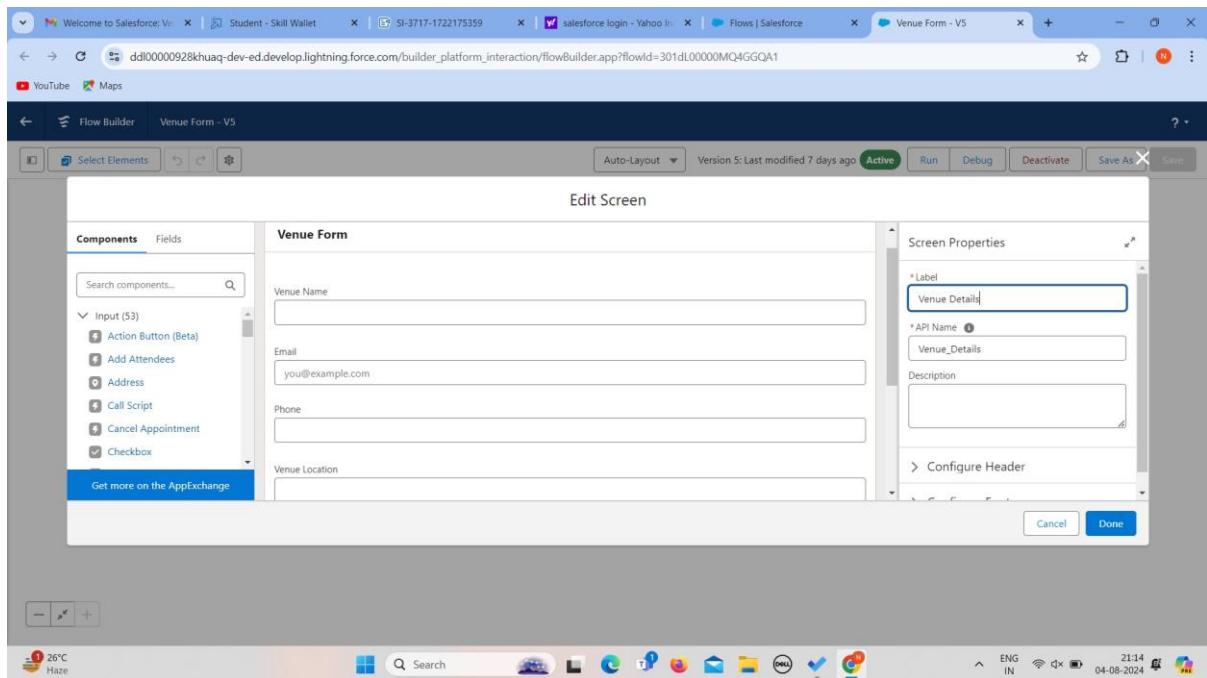
API Name : Latitude

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}

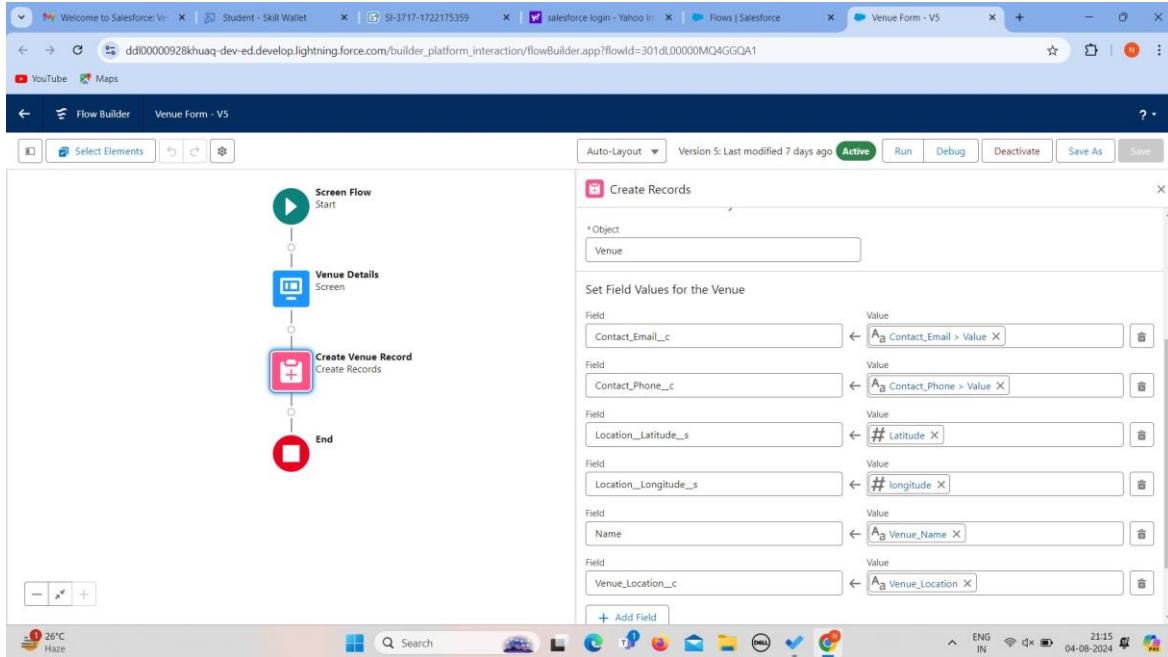
Field : Value = Name : {!Venue\_Name}

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

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

Field : Value = Location\_Longitude\_\_s : {!longitude} 14.

This would look like:



15.Click on Save as:

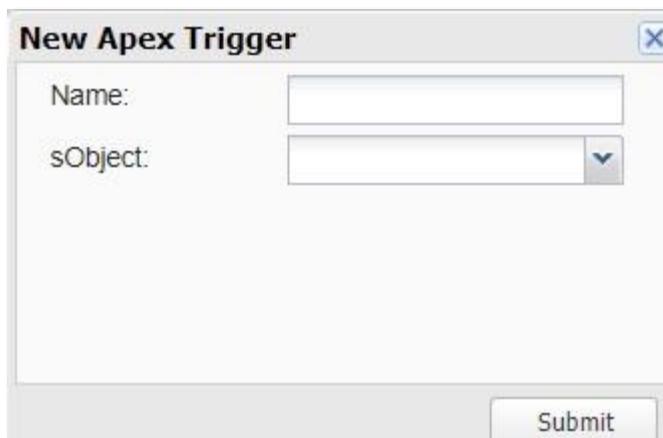
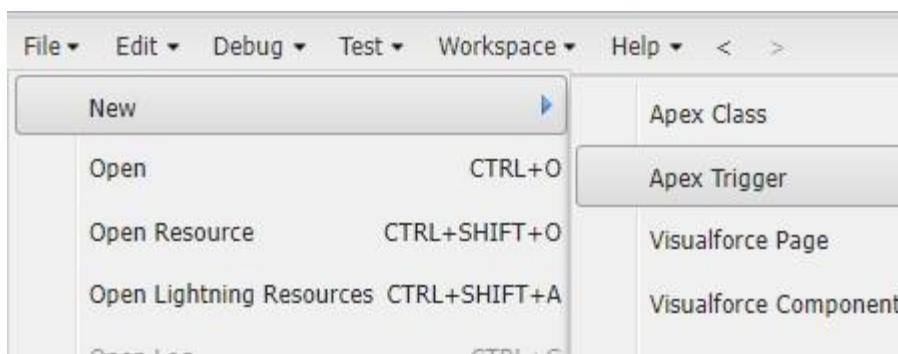
Flow Label : Venue Form

Flow API Name : Venue\_Form

# TASK 7: Trigger

## 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.





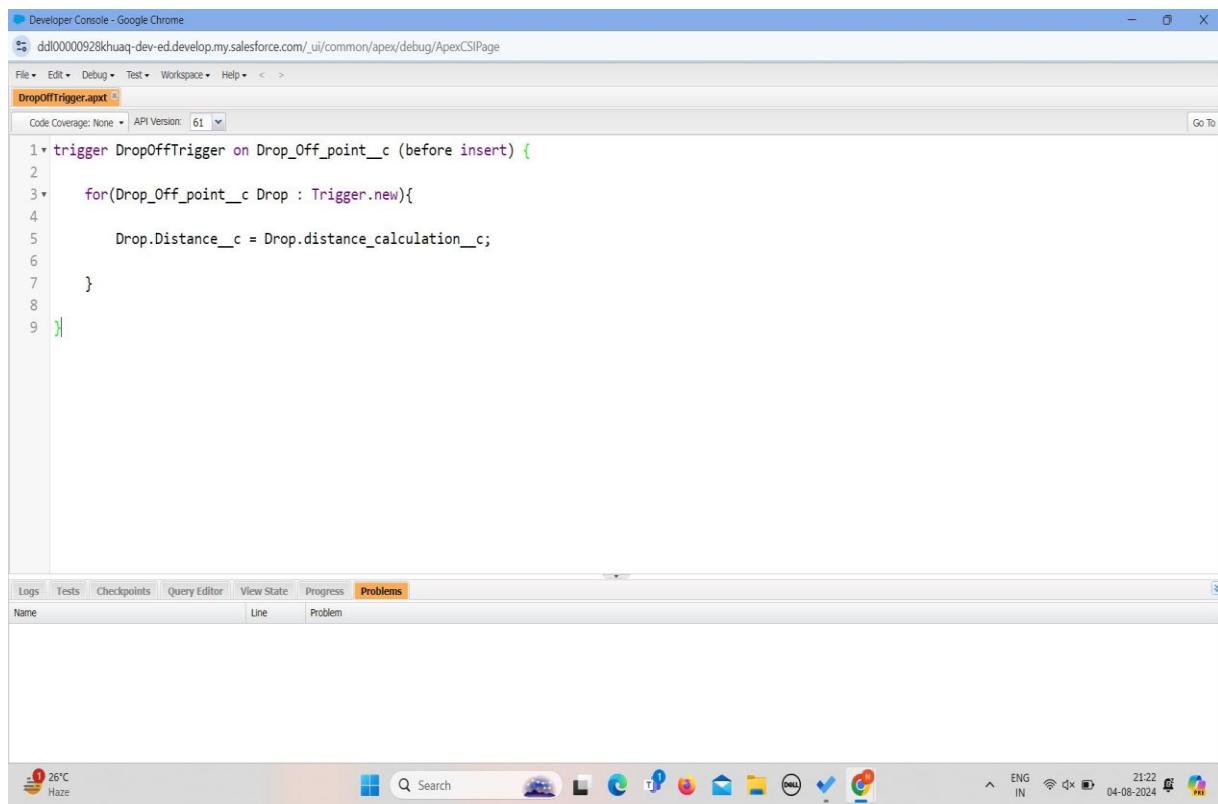
5. Enter Name : DropOffTrigger sObject: Drop-Off Point
6. Click on Submit.

### 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;  
    }  
}
```



```

1 * trigger DropOffTrigger on Drop_Off_point__c (before insert) {
2
3     for(Drop_Off_point__c Drop : Trigger.new){
4
5         Drop.Distance__c = Drop.distance_calculation__c;
6
7     }
8
9 }

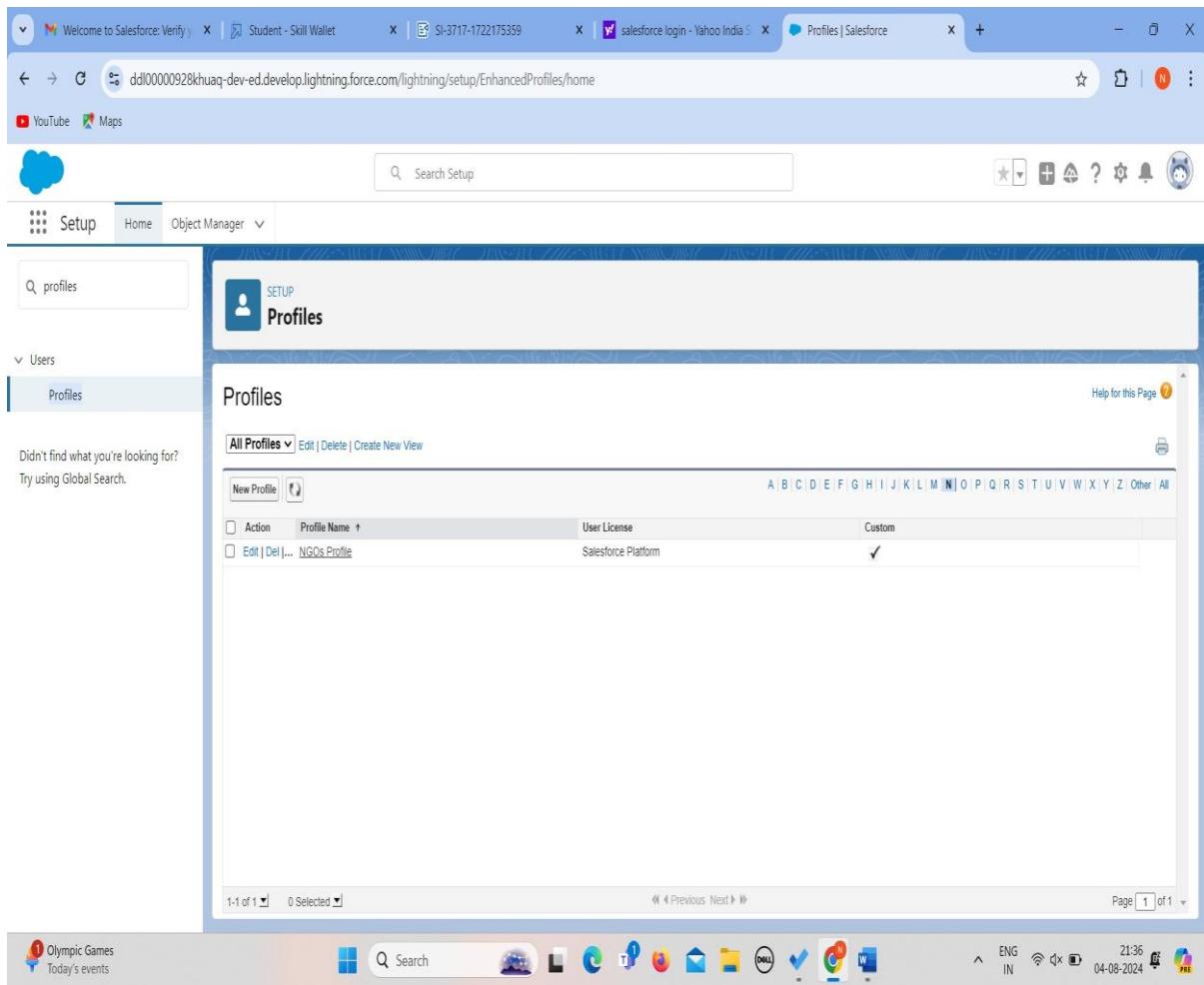
```

The screenshot shows the Salesforce Developer Console in Google Chrome. The code editor displays an Apex trigger named `DropOffTrigger.apxt`. The trigger has one method, `DropOffTrigger`, which is triggered before inserting a record of type `Drop_Off_point__c`. Inside the trigger, there is a loop that iterates over the list of new records (`Trigger.new`) and sets the `Distance__c` field to the value of the `distance_calculation__c` field for each record.

## 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 Platform User.
3. Under Clone Profile:  
Profile Name : NGOs Profile

1. Then click on Save



The screenshot shows the Salesforce Setup interface under the 'Profiles' section. The search bar at the top left contains 'profiles'. The main content area displays a table titled 'Profiles' with one row:

| Action  | Profile Name | User License        | Custom                              |
|---|--------------|---------------------|-------------------------------------|
| <a href="#">Edit</a>   <a href="#">Delete</a> | NGOs Profile | Salesforce Platform | <input checked="" type="checkbox"/> |

At the bottom of the page, there are navigation links for 'Previous' and 'Next', and a page number 'Page 1 of 1'.

## 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 : Iksha Foundation

Last Name : Iksha\_Foundation

Alias : iiksh

Email : Give Your Email

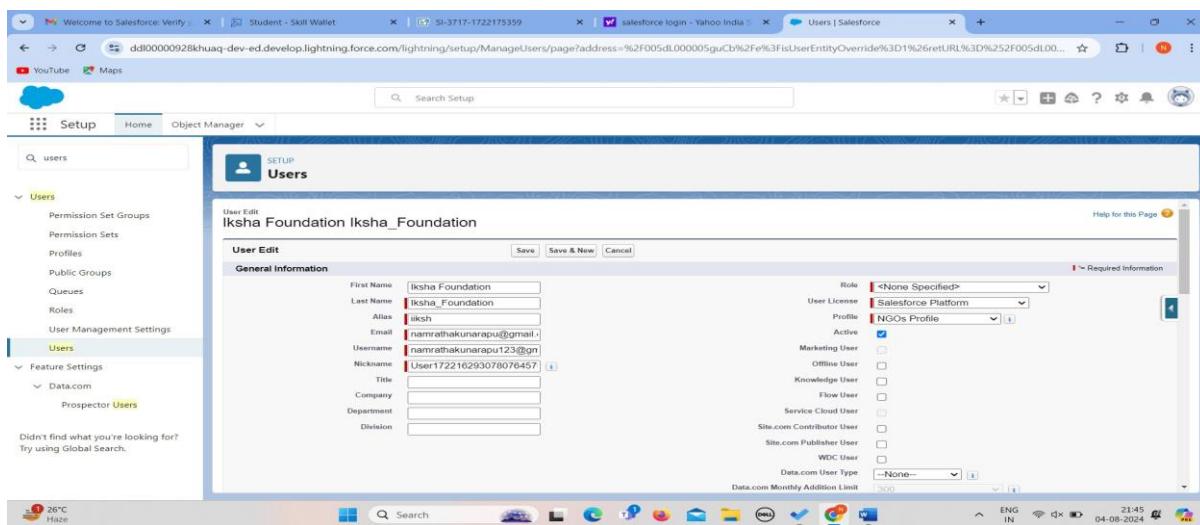
Username : ikshafoundation@sb.com (give the username different)

Nickname : Auto Populated

User License : Salesforce Platform

Profile : NGOs Profile

Active : Check



3. Click on Save

### Creation of User2, User3

Create another Two Users by following steps in Activity - 1 with similar User License and Profile.

Give Different First Name, Last Name based on Different NGO's.

The screenshot shows the Salesforce Setup interface with the 'Users' page selected. The left sidebar has 'Users' expanded, showing sub-options like 'Permission Set Groups', 'Profile Sets', 'Profiles', 'Public Groups', 'Queues', 'Roles', 'User Management Settings', and 'Users' (which is selected). The main content area is titled 'All Users' and contains a table with the following data:

| Action                        | Full Name         | Alias   | Username   | Role | Active                              | Profile                            |
|-------------------------------|-------------------|---------|--|------|-------------------------------------|------------------------------------|
| <input type="checkbox"/> Edit | Chatter_Easset    | Chatter | chatyv.coop@0000928khueq.stash2text@chatter.salesforce.com |      | <input checked="" type="checkbox"/> | ✓ Chatter_Free_User                |
| <input type="checkbox"/> Edit | itsila_Foundation | itsila  | narratorhatsunrau123@gmail.com                             |      | <input checked="" type="checkbox"/> | ✓ NGOs_Profile                     |
| <input type="checkbox"/> Edit | Kiran_Kumar       | Kiran   | narratorhatsunrau123@gmail.com                             |      | <input checked="" type="checkbox"/> | ✓ NGO_Staff                        |
| <input type="checkbox"/> Edit | Mansana_Amanzaa   | Kiran   | narratorhatsunrau123@gmail.com                             |      | <input checked="" type="checkbox"/> | ✓ System_Administrator             |
| <input type="checkbox"/> Edit | narmatha_namratha | namrata | narratorhatsunrau123@gmail.com                             |      | <input checked="" type="checkbox"/> | ✓ NGOs_Profile                     |
| <input type="checkbox"/> Edit | User_Integration  | itepa   | integration@000000000028khueq.com                          |      | <input checked="" type="checkbox"/> | ✓ Analytics_Cloud_Integration_User |
| <input type="checkbox"/> Edit | User_Security     | sec     | insightssecurity@000000000028khueq.com                     |      | <input checked="" type="checkbox"/> | ✓ Analytics_Cloud_Security_User    |

At the bottom of the page, there are buttons 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 : Iksha
    - Group Name : Iksha
    - Grant Access Using Hierarchies : Check
  3. In Search, Select Users.
  4. In Selected Members Add Iksha Foundation and System Administrator



The screenshot shows the Salesforce Setup interface for creating a Public Group. The left sidebar is titled 'PUBLIC' and includes sections for Users, Feature Settings, and Company Settings. Under 'Users', 'Public Groups' is selected. The main area is titled 'SETUP Public Groups' and shows a 'Group Information' section with 'Label' set to 'Iksha' and 'Group Name' also set to 'Iksha'. A checkbox for 'Grant Access Using Hierarchies' is checked. Below this, there are two lists: 'Available Members' (containing 'Group: kunarapu' and 'Group: namratha') and 'Selected Members' (containing 'Iksha Foundation Iksha\_Foundation' and 'Kunarapu Namratha'). An 'Add' button is between the two lists, and a 'Remove' button is at the bottom of the 'Available Members' list. The status bar at the bottom indicates it's 26°C Haze.

## 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.

The screenshot shows the 'Public Groups' list view. The left sidebar is identical to the previous screenshot. The main area is titled 'SETUP Public Groups' and contains a table of public groups. The table has columns for Action, Label, Group Name, Created By, and Created Date. There are three entries:

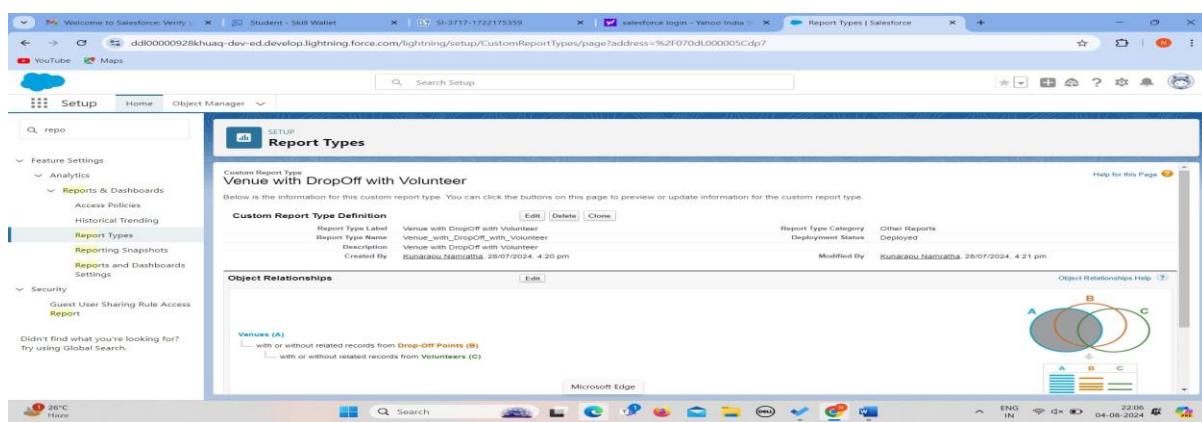
| Action     | Label    | Group Name | Created By        | Created Date        |
|------------|----------|------------|-------------------|---------------------|
| Edit   Del | Banai    | Iksha      | Namratha_Kumaraju | 28/07/2024, 4:13 pm |
| Edit   Del | Kunarapu | Kunarapu   | Namratha_Kumaraju | 28/07/2024, 4:14 pm |
| Edit   Del | namratha | namratha   | Namratha_Kumaraju | 28/07/2024, 4:14 pm |

The status bar at the bottom indicates it's 23:55 04-08-2024.

# TASK 11: Report Types

## 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 12:Reports

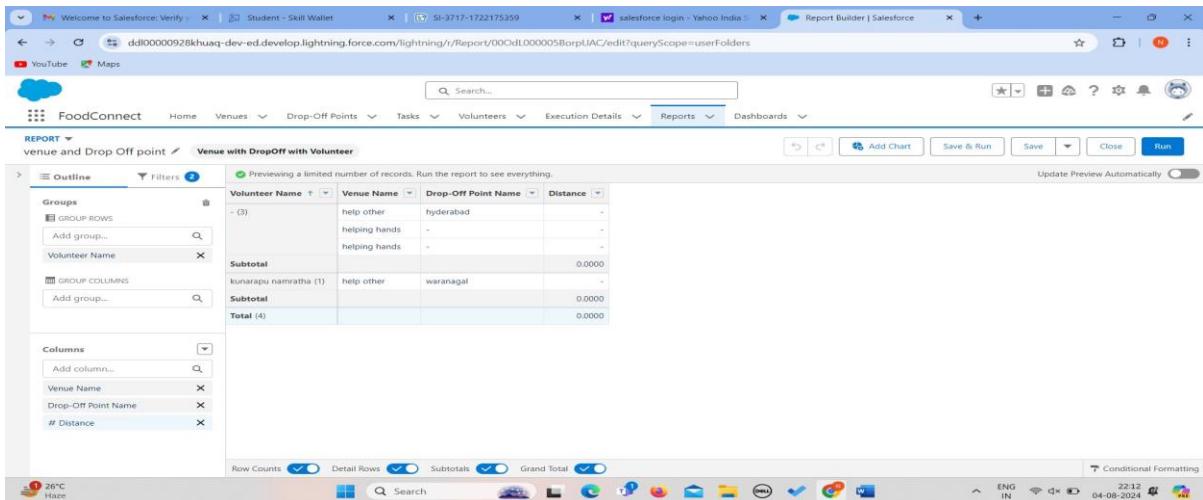
## Creation of Report on Venue with DropOff with Volunteer

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 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.
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.

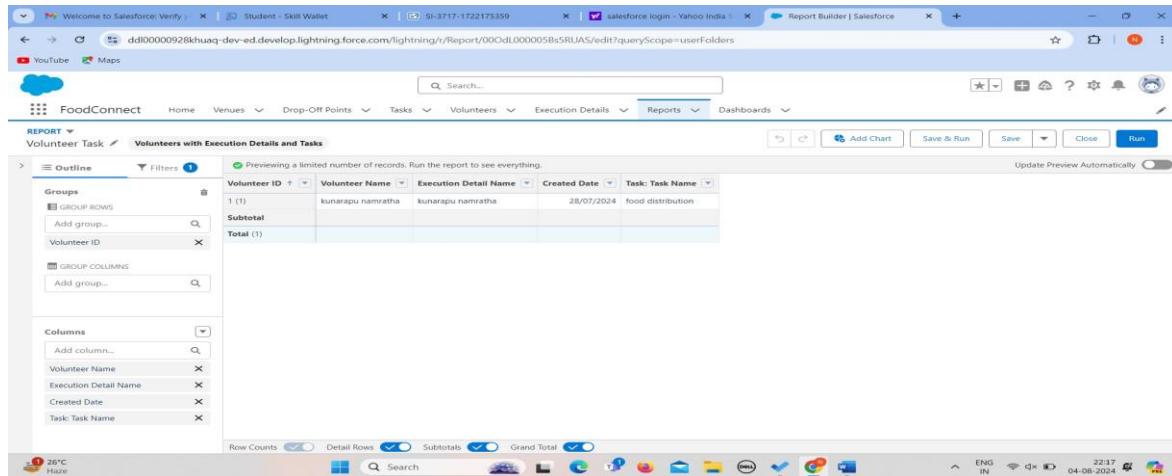


| Volunteer Name        | Drop-Off Point Name | Distance  |
|-----------------------|---------------------|-----------|
| - (3)                 | help other          | hyderabad |
|                       | helping hands       | -         |
|                       | helping hands       | -         |
| <b>Subtotal</b>       |                     | 0.0000    |
| kunarapu namratha (1) | help other          | waranagal |
| <b>Subtotal</b>       |                     | 0.0000    |
| <b>Total (4)</b>      |                     | 0.0000    |

## 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.
7. Now click on Save & Run.  
 Report Name : Volunteer Task  
 Report Unique Name : Auto Populated

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



| Volunteer ID     | Volunteer Name    | Execution Detail Name | Created Date | Task: Task Name   |
|------------------|-------------------|-----------------------|--------------|-------------------|
| 1 (1)            | kunarapu namratha | kunarapu namratha     | 28/07/2024   | food distribution |
| <b>Subtotal</b>  |                   |                       |              |                   |
| <b>Total (1)</b> |                   |                       |              |                   |

# TASK 13:Dashboards

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

Go to the app(FoodConnect) >> click on the Dashboards tab

1. Click on New Folder.

Folder Label : Custom Dashboards

Folder Unique Name : Auto Populated

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

Display As : Select Lightning Table

Component Theme : Select Dark (Optional)

**Report**

venue and Drop Off point ×

Use chart settings from report i

**Display As**

**Groups**

Add group... ×

**Columns**

Add column... ×

**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 \(venue and Drop Off point\)](#)

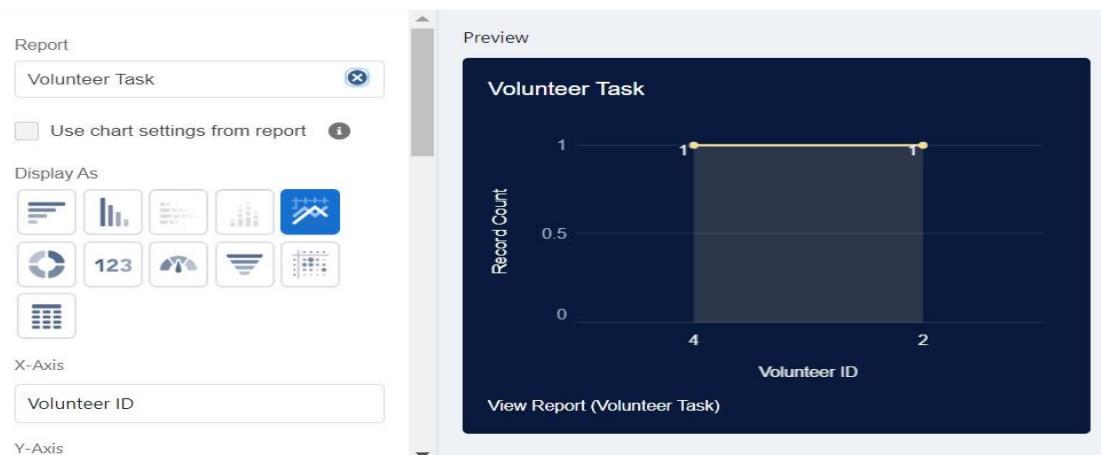
Now click on save

### **Adding Volunteer Task Report to the Dashboard**

1. Click on Widget and select Chart or Table
2. In 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)



Now click on save.

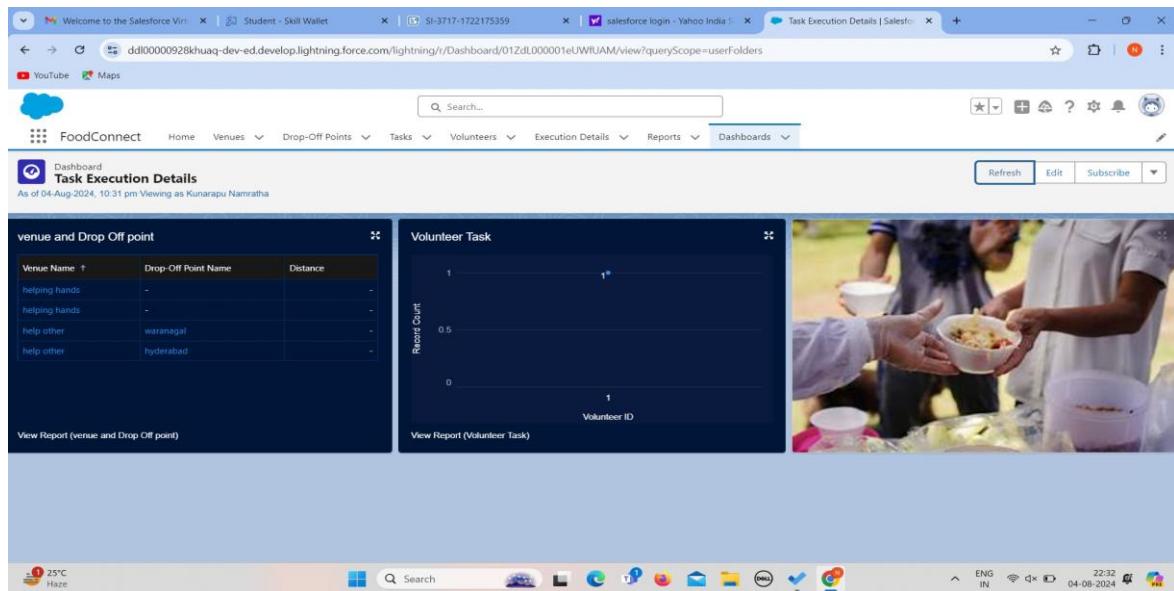
### **Adding a Picture to the Dashboard (Optional):**

(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 Select Folder and select Custom Dashboards

4.Click on Select Folder and then Save.



## 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 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:
6. Field : Operator : Value = Distance : less than : 15

7. Select the users to share with : Near Share With Public Groups : Iksha

8. Click on Save.

9. Click on new near Drop-Off point Sharing Rules and Name it as:

Label : Rule 2

Rule Name : Rule\_2

10. 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:

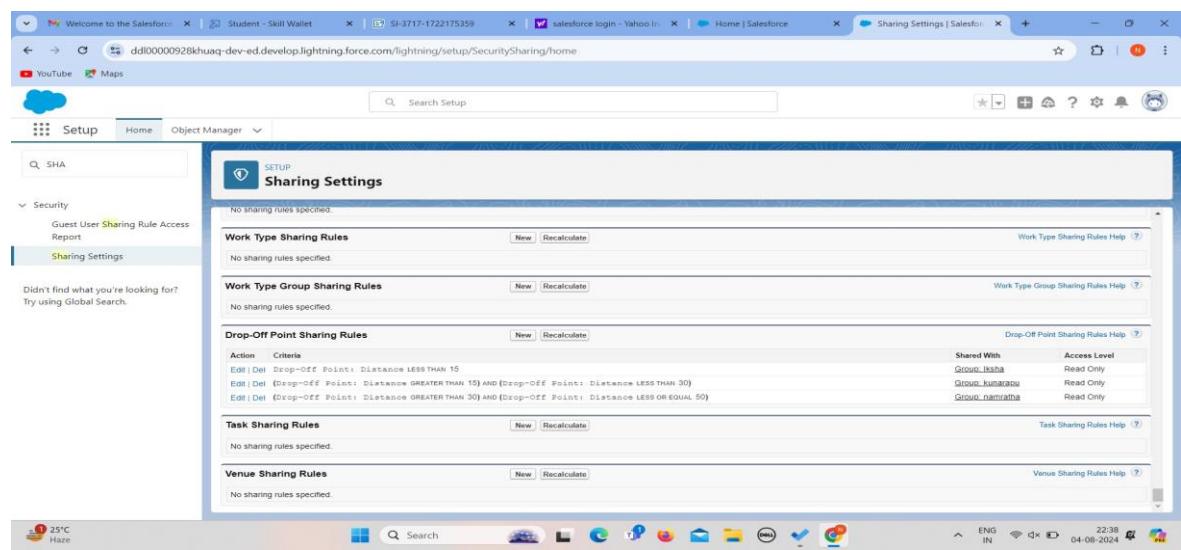
Field : Operator : Value = Distance : greater than : 30

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.

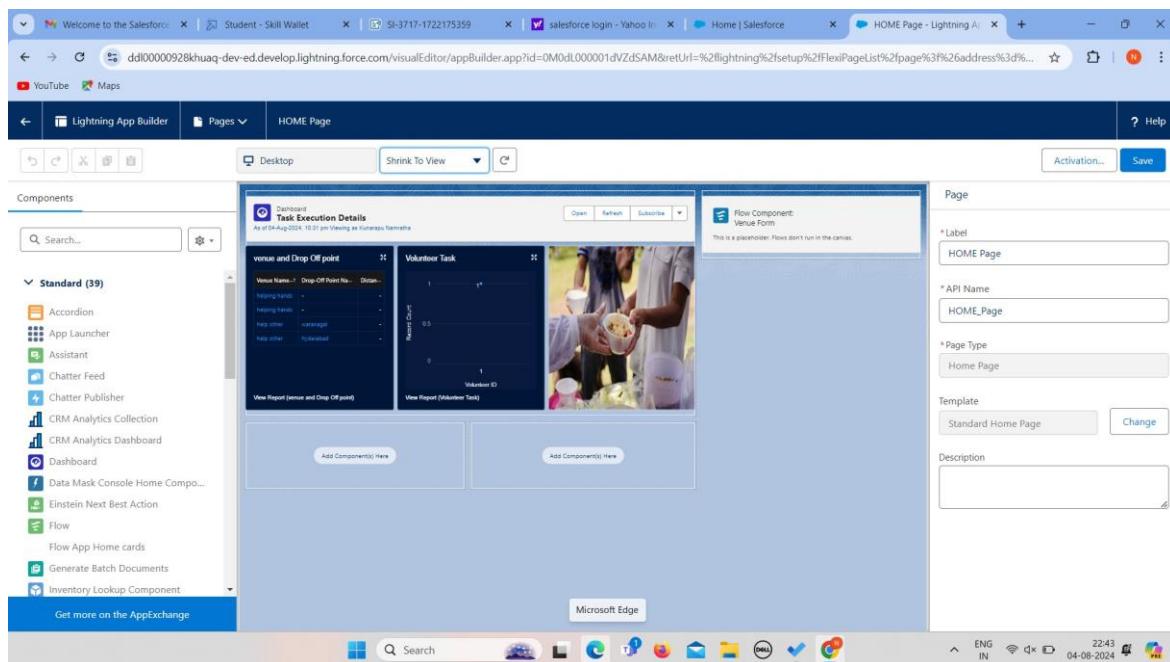


## TASK 15: Home Page

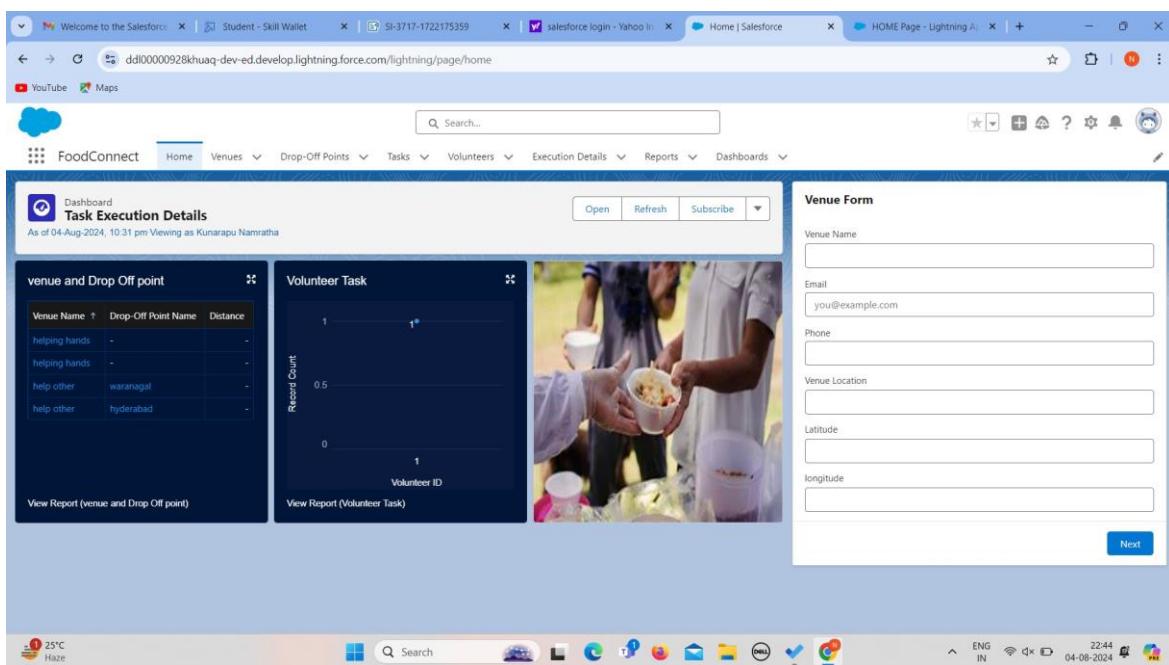
### Creation of Home Page

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 : Venue Flow
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.

Add FoodConnect App and then Save. FoodConnect Home



## 1. 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.

