

To Supply Leftover Food to Poor

By

Kamidi Vishnuvardhan Reddy

Reddy930002@gmail.com

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 Salesforce-based 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.

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INTRODCTION

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 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.

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

The image shows two side-by-side screenshots. The left screenshot is a promotional image for the Salesforce Platform, featuring a computer monitor displaying a complex network diagram or app interface, with the text "Build enterprise-quality apps fast to bring your ideas to life" and a bulleted list of features: 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, and Customize UI with clicks or any leading-edge web framework. The right screenshot is the "Sign up for your Salesforce Developer Edition" form. It includes a "salesforce" logo, a brief description ("A full-featured copy of the Platform, for free"), a call-to-action ("Complete the form to start your free trial. Our team will be in touch to help you make the most of your trial."), and five input fields: First Name*, Last Name*, Email*, Role*, and Company*. The "Role*" field has "Developer" selected.

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

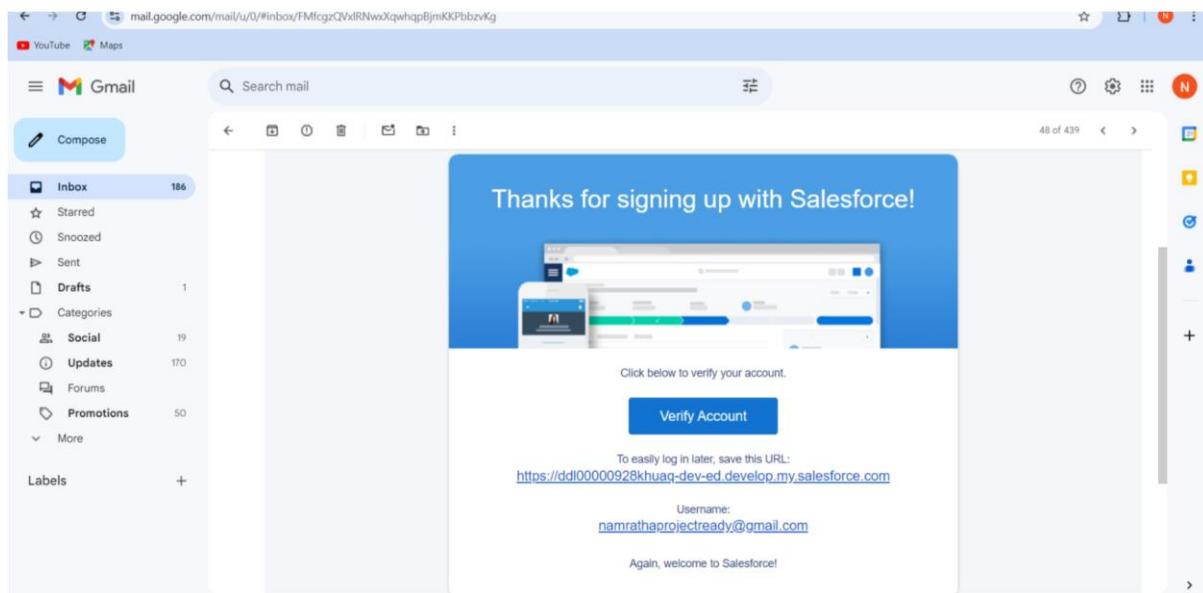
This need not be an actual email id, you can give anything in the format :

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.

A screenshot of a 'Change Your Password' form. At the top, it says 'Enter a new password for lead@sb.oom.' and 'Make sure to include at least:'. Below that, there are three green checkmarks: '8 characters', '1 letter', and '1 number'. The form has several fields:

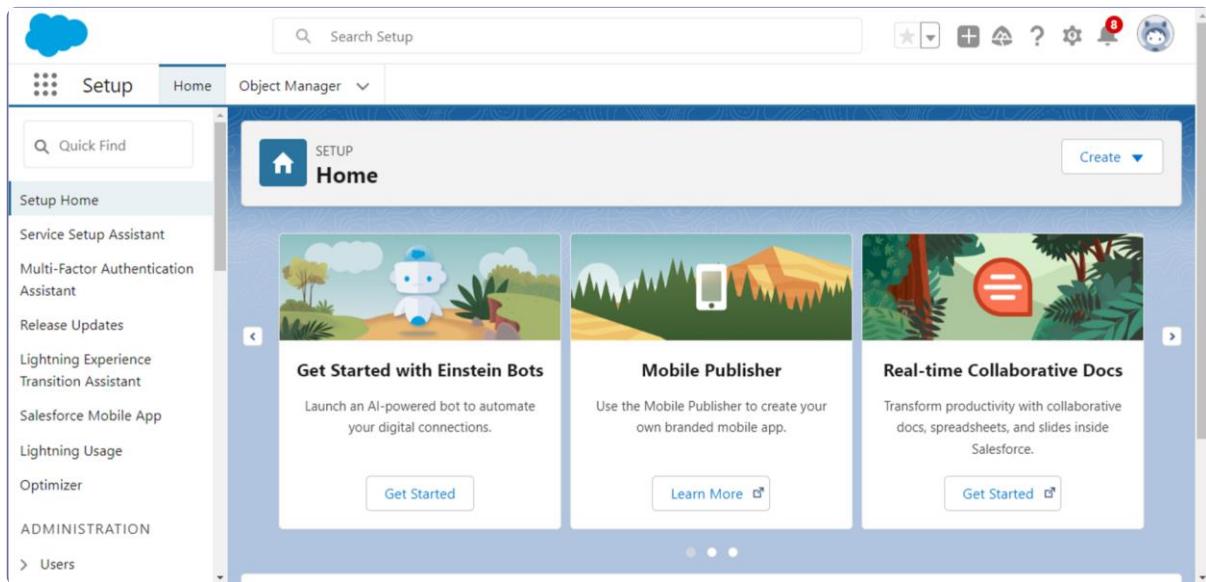
- 'New Password': A red box surrounds this field, which contains a placeholder '.....' and a status message 'Good'.
- 'Confirm New Password': A red box surrounds this field, which contains a placeholder '.....' and a status message 'Match'.
- 'Security Question': A dropdown menu with the question 'In what city were you born?'.
- 'Answer': A text input field containing the answer 'asdfghjkl'.
- 'Change Password': A blue button at the bottom.

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.

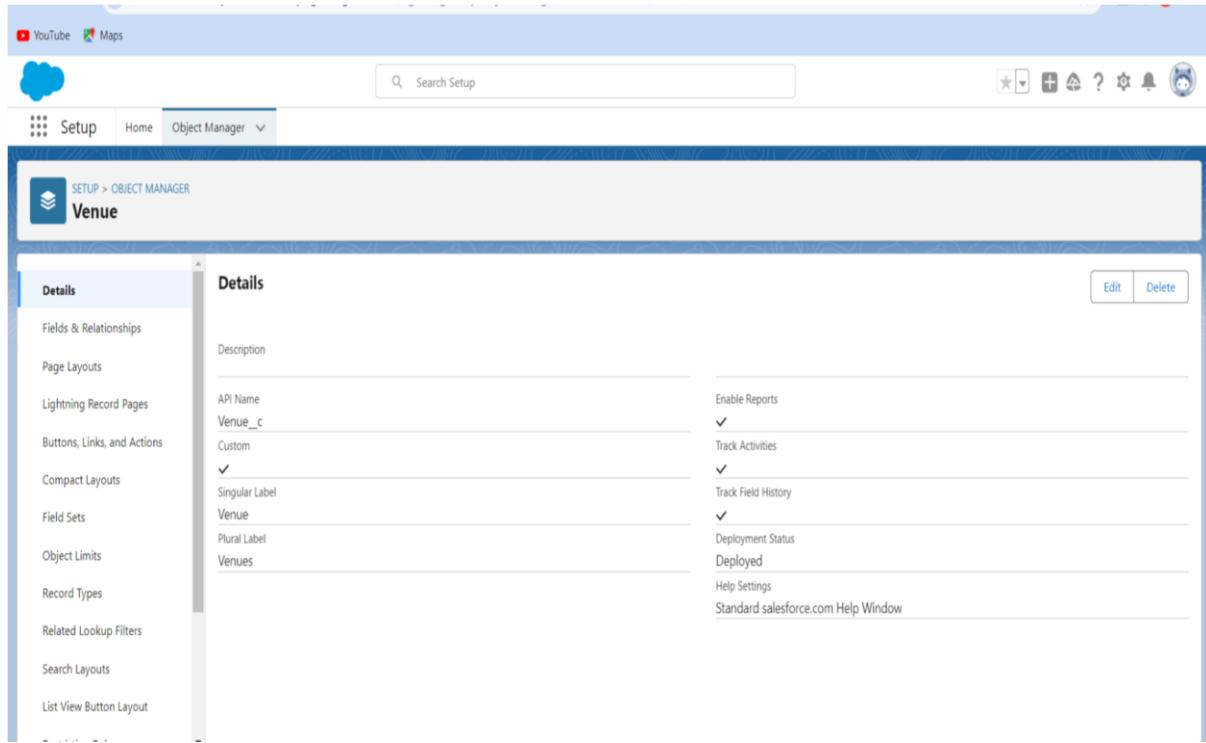


TASK 2: Objects creation

Create Venue Object

To create an object:

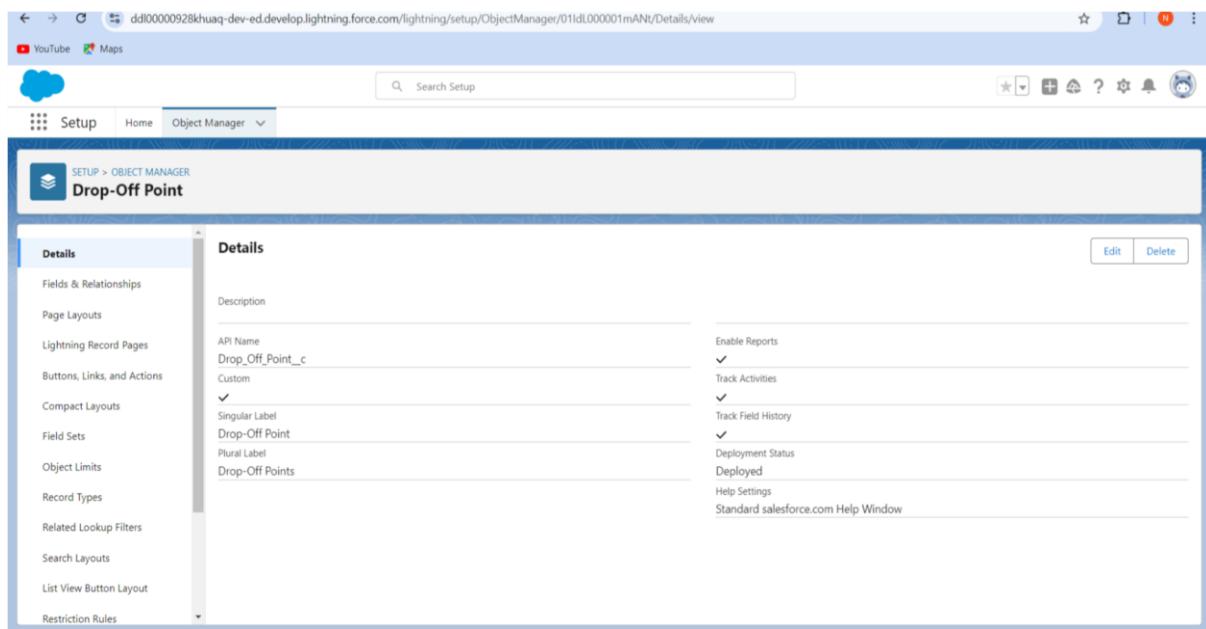
1. From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.
1. Enter the label name >> Venue
2. Plural label name >> Venues
3. Enter Record Name Label and Format
 - Record Name >> Venue Name
 - Data Type >> Text
2. Click on Allow reports and Track Field History, Allow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



Create Drop-Off Point Object

To create an object:

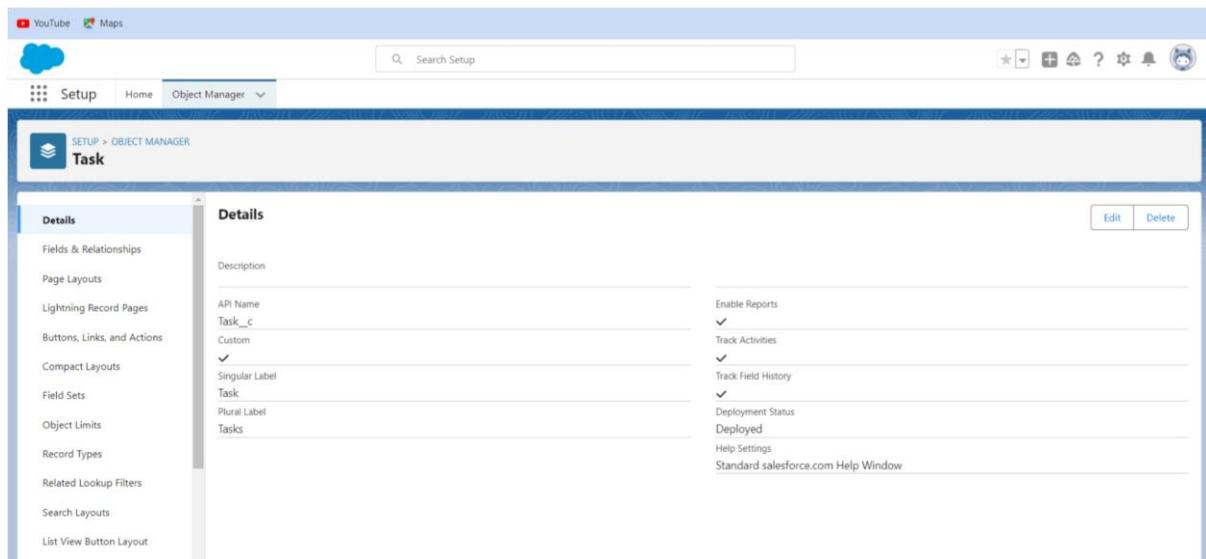
1. From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.
1. Enter the label name >> Drop-Off Point
2. Plural label name >> Drop-Off Points
3. Enter Record Name Label and Format
 - Record Name >> Drop-Off point Name
 - Data Type >> Text
2. Click on Allow reports and Track Field History, Allow Activities
3. Allow search >> Save.



Create Task Object

To create an object:

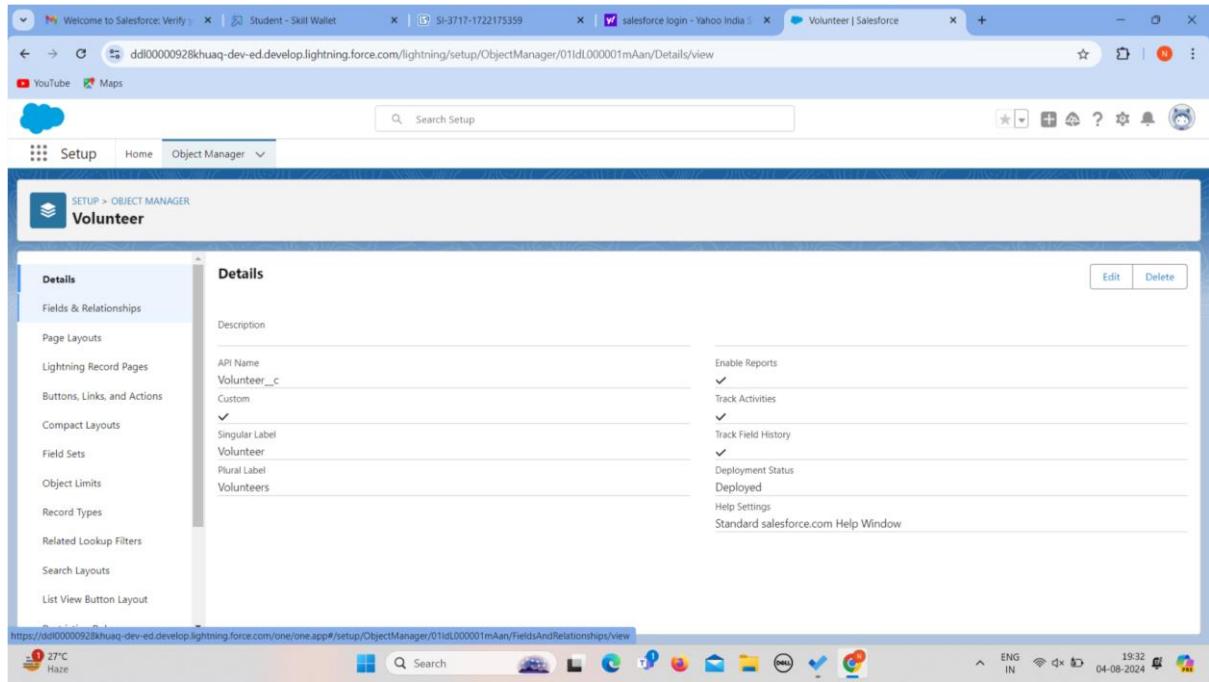
1. From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.
1. Enter the label name>> Task
2. Plural label name>> Tasks
3. Enter Record Name Label and Format
 - Record Name >> Task Name
 - Data Type >> Text
2. Click on Allow reports and Track Field History,Allow Activities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



Create Volunteer Object

To create an object:

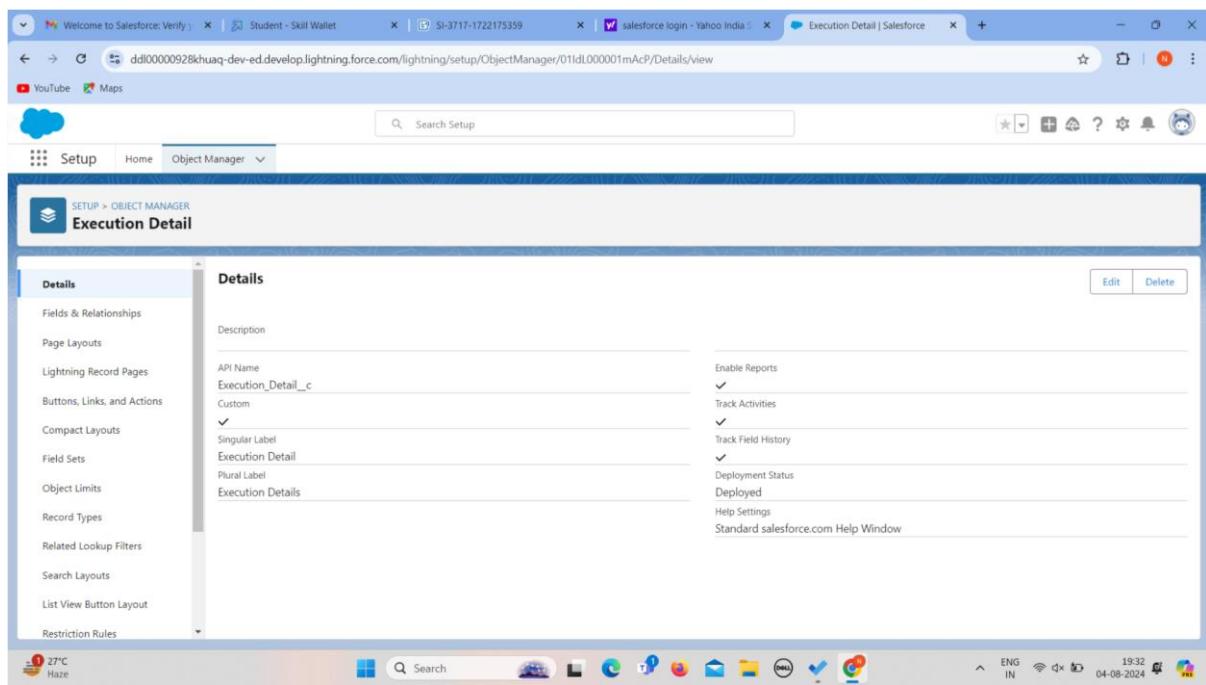
1. From the setup page >> Click on Object Manager>> Click on Create >> Click on Custom Object.
1. Enter the label name>> Volunteer
2. Plural label name>> Volunteers
3. Enter Record Name Label and Format
 - Record Name >> Volunteer Name
 - Data Type >> Text
2. Click on Allow reports and Track Field History,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

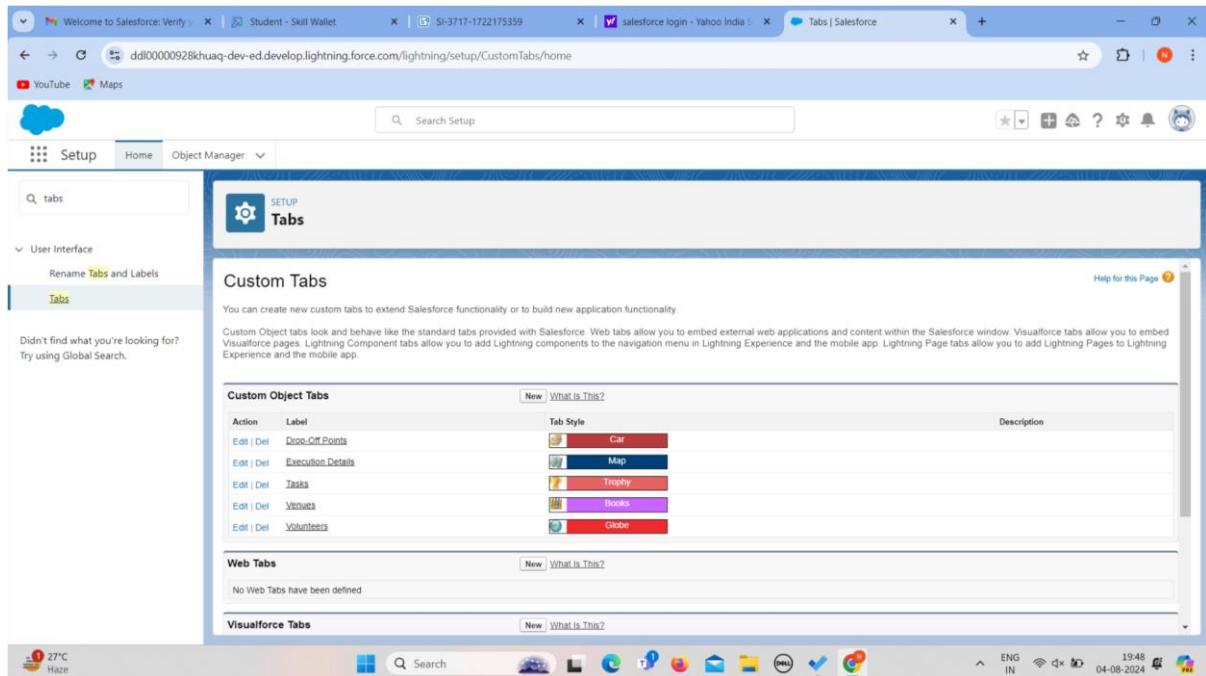
To create a Tab:(Venue)

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-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.

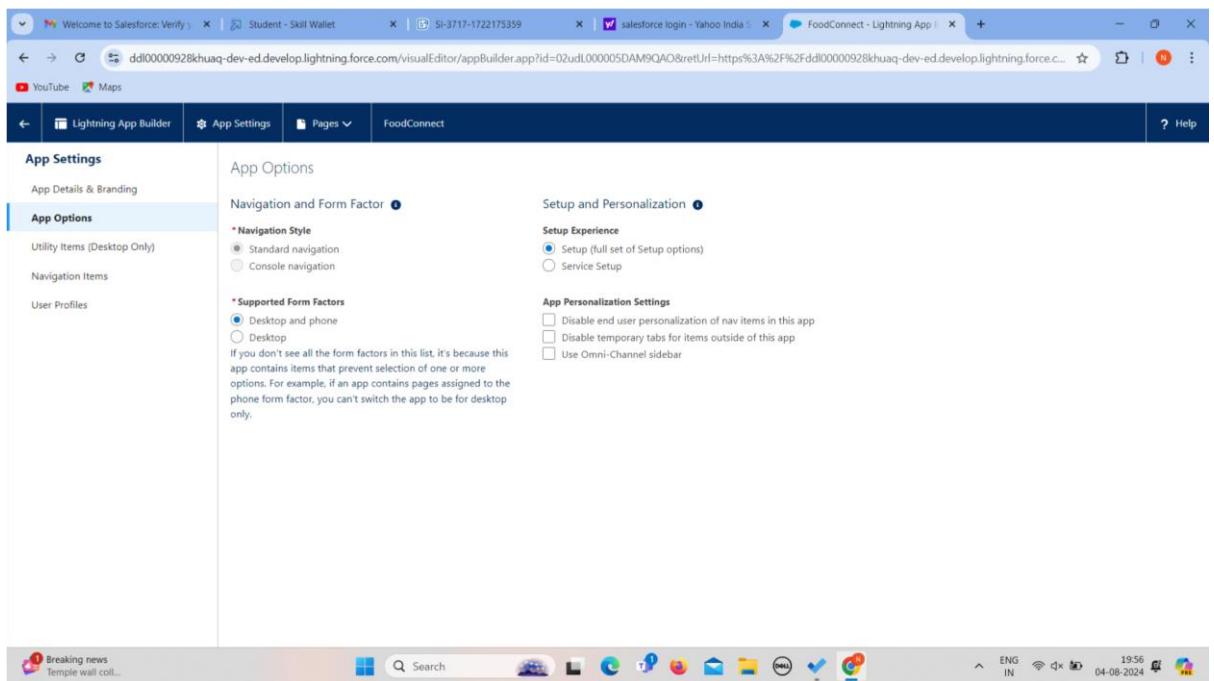
4. (Utility Items) keep it as default >> Next.

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.



The screenshot shows the 'Navigation Items' section of the Lightning App Builder. On the left, under 'Available Items', there is a list of navigation items including Accounts, All Sites, Alternative Payment Methods, Analytics, App Launcher, Appointment Categories, Appointment Invitations, Approval Requests, Asset Action Sources, and Asset Actions. A search bar at the top of this list allows filtering. On the right, under 'Selected Items', several items are listed: Home, Venues, Drop-Off Points, Tasks, Volunteers, Execution Details, Reports, and Dashboards. Navigation arrows between the two lists allow users to move items between them. The top of the page shows the standard browser header with tabs for various applications like Student - Skill Wallet, SI-3717-1722175359, salesforce login - Yahoo India, and FoodConnect - Lightning App.

The screenshot shows the 'User Profiles' section of the Lightning App Builder. On the left, under 'Available Profiles', there is a list of user profiles including Analytics Cloud Integration User, Analytics Cloud Security User, Authenticated Website, Authenticated Website, B2B Reordering Portal Buyer Profile, Contract Manager, Custom: Marketing Profile, Custom: Sales Profile, Custom: Support Profile, and Customer Community Login User. A search bar at the top of this list allows filtering. On the right, under 'Selected Profiles', the profile 'System Administrator' is listed. The top of the page shows the standard browser header with tabs for various applications like Student - Skill Wallet, SI-3717-1722175359, salesforce login - Yahoo India, and FoodConnect - Lightning App.

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 :

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

Creation of Master Detail Relationship Field on Execution Details Object :

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

16.Now click on “Fields & Relationships” >> New

17.Select Master Detail relationship

18.Select the related object “Task” and click next.

19.Field Name : Task

20.Field label : Auto generated

21.Next >> Next >> Save.

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

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

23.Now click on “Fields & Relationships” >> New

24.Select Lookup relationship

25.Select the related object “Drop-Off Point” and click next.

26.Field Name : Venue

27.Field label : Venue_c

28.Next >> Next >> Save.

Creation of Lookup Relationship Field on Task Object :

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

30.Now click on “Fields & Relationships” >> New

31.Select Lookup relationship

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

33.Field Name : Sponsored By

34.Field label : Auto generated

35.Next >> Next >> Save.

Creation of Lookup Relationship Field on Task Object :

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

>> click on the object.

37.Now click on “Fields & Relationships” >> New

38.Select Lookup relationship

39.Select the related object “Drop-Off point” and click next.

40.Field Name : Drop-Off point

41.Field label : Auto generated

42.Next >> Next >> Save.

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.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Contact Email	Contact_Email__c	Email		
Contact Phone	Contact_Phone__c	Phone		
Created By	CreatedById	Lookup(User)		
Last Modified By	LastModifiedById	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.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	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	LastModifiedById	Lookup(User)		
Location 2	Location_2__c	Geolocation		
Owner	OwnerId	Lookup(User.Group)		✓
State	State__c	Picklist		
Venue__c	Venue__c	Lookup(Venue)		✓

Creation of fields for the Task object

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

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

• •

Field Label : Task ID

Display Format : TASK-{0}

- Starting Number : 1
- Field Name : gets auto generated
- Click on required check box
- Click on Next >> Next >> Save and new.

To create another fields in an object:

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

To create another fields in an object:

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

• •

- Field Label : Food Category
- Field Name : Food Category
- Enter values, with each value separated by a new line :

Veg

Non-Veg

Salad

Snack

Click on required check box

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

To create another fields in an object:

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

10. Now click on “Fields & Relationships” >> New

11. Select Data type as a “Number” and Click on Next

12. Fill the Above as following:

- Field Label : Number of People Served
- Field Name : Number_of_People_Served
- Click on required check box
- Click on Next >> Next >> Save and new.

To create another fields in an object:

• •

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

14.Now click on “Fields & Relationships” >> New

15.Select Data type as a “Text” and Click on Next

16.Fill the Above as following:

- Field Label : Name of the Person
- Field Name : Name_of_the_Person
- Click on Next >> Next >> Save and new.

To create another fields in an object:

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

18.Now click on “Fields & Relationships” >> New

19.Select Data type as a “Phone” and Click on Next

20.Fill the Above as following:

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

To create another fields in an object:

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

22.Now click on “Fields & 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.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Date	Date__c	Date		
Distance	Distance__c	Number(14, 4)		
Drop-Off Point	Drop_Off_Point__c	Lookup(Drop-Off Point)		
Feedback	Feedback__c	Long Text Area(32768)		
Food Category	Food_Category__c	Picklist (Multi-Select)		
Last Modified By	LastModifiedBy	Lookup(User)		
Name of the Person	Name_of_the_Person__c	Text(30)		
Number of People Served	Number_of_People_Served__c	Number(18, 0)		

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)	✓	

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

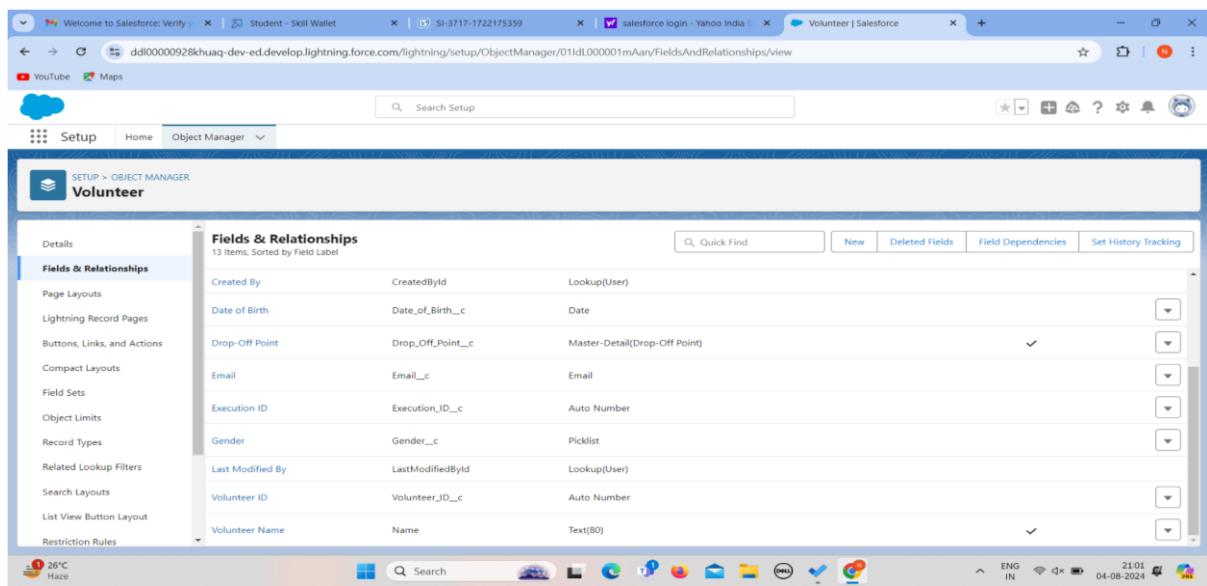
27.Select Data type as a “Date” and Click on Next

28.Fill the Above as following: ●

Field Label : Date of Birth

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

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	CreatedBy	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		



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.

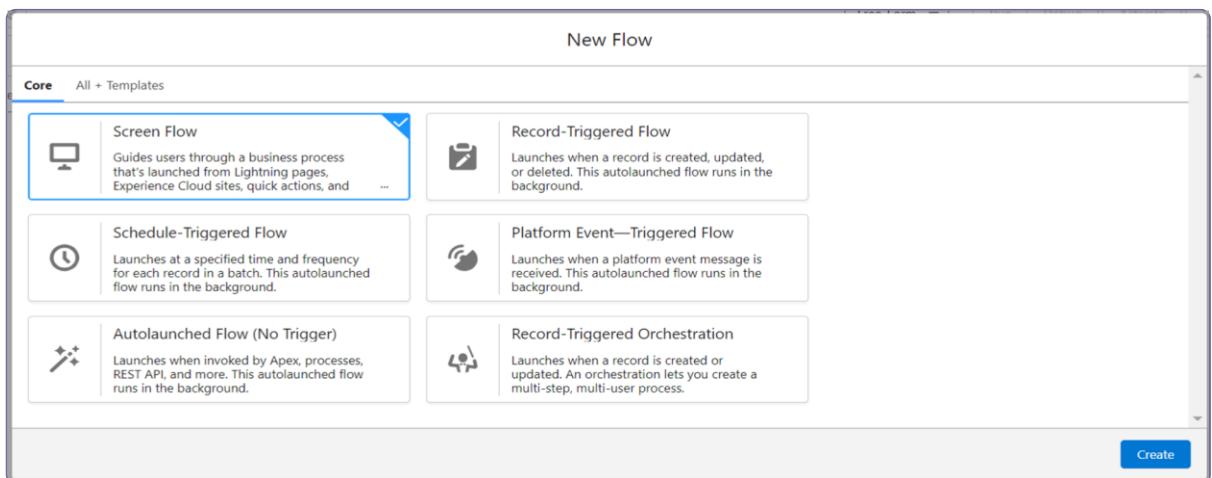
The screenshot shows the Salesforce Object Manager interface. The top navigation bar includes tabs for 'Welcome to Salesforce: Verify...', 'Student - Skill Wallet', 'SI-3717-1722175359', 'salesforce login - Yahoo India', and 'Execution Detail | Salesforce'. Below the navigation is a search bar and a toolbar with various icons. The main content area is titled 'Execution Detail' under 'OBJECT MANAGER'. On the left, a sidebar lists categories like 'Fields & Relationships', 'Page Layouts', 'Lightning Record Pages', etc. The central part displays a table for 'Fields & Relationships' with the following data:

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Execution Detail Name	Name	Text(80)		✓
Last Modified By	LastModifiedById	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:

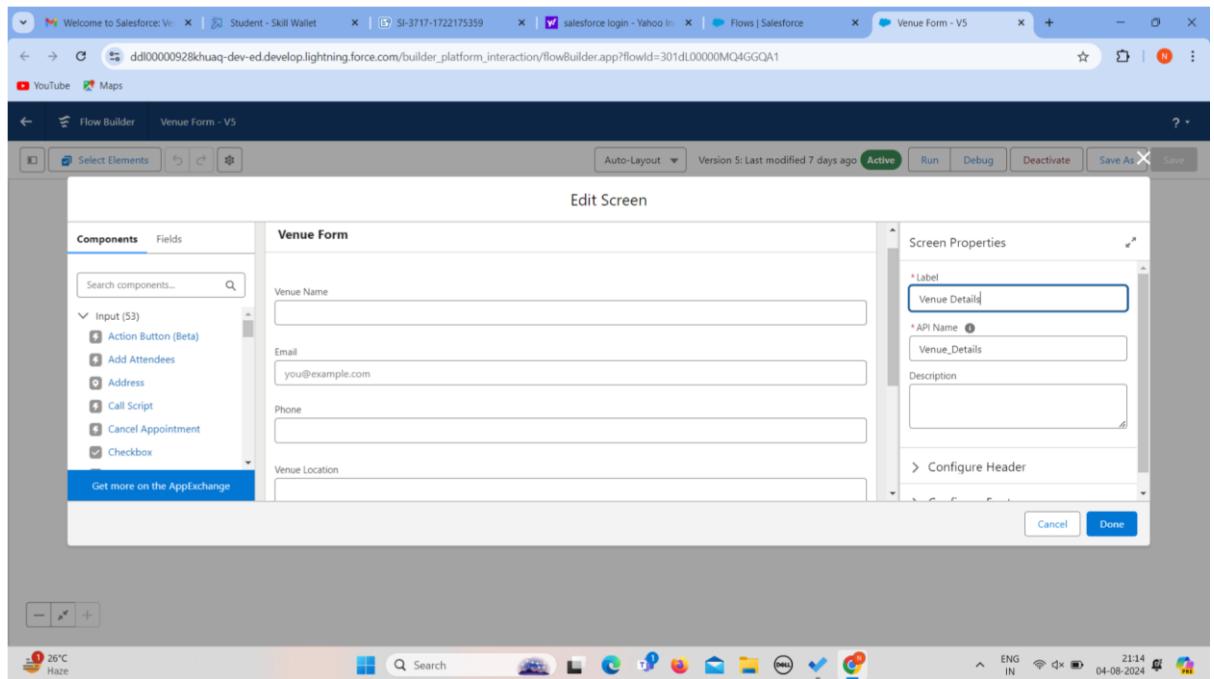
Label : Latitude

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}

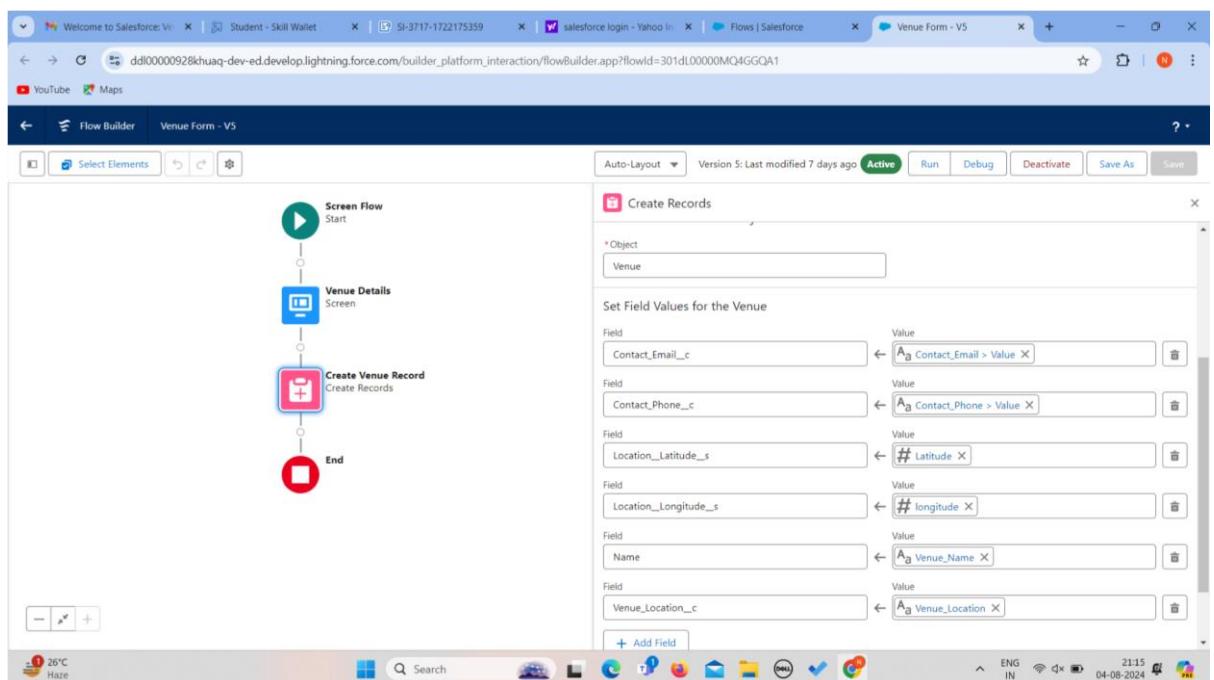
Field : Value = Contact_Phone__c : {!Contact_Phone.value}

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:

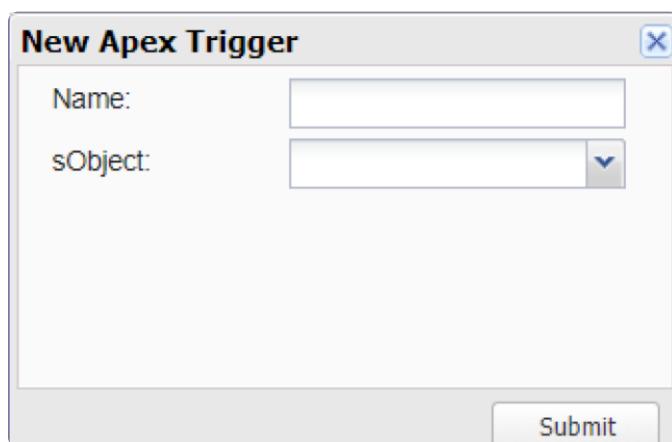
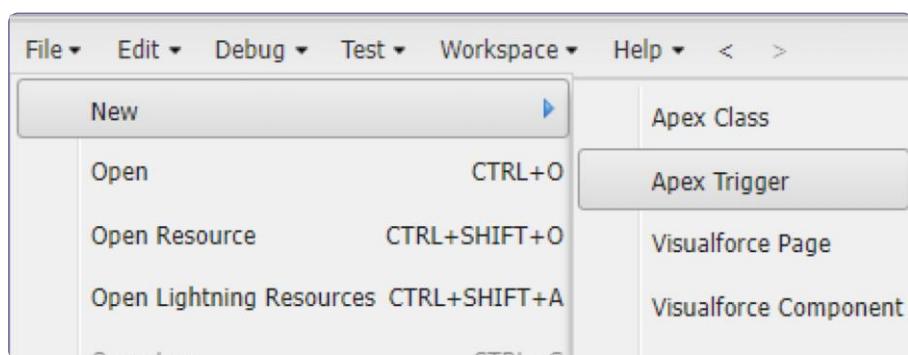
Flow Label : Venue Form

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

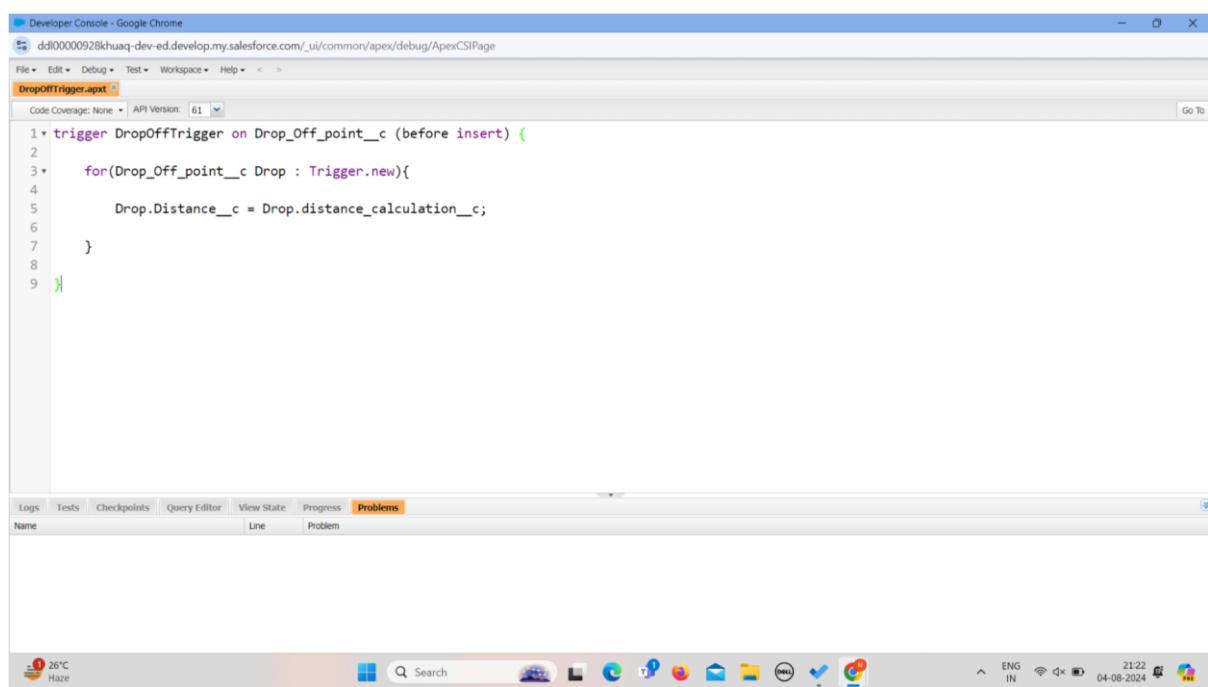
6. Click on Submit.

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;  
    }  
}
```



The screenshot shows the Salesforce Developer Console interface. The title bar reads "Developer Console - Google Chrome" and the URL is "dd100000928khuaq-dev-ed.develop.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage". The tab bar has "DropOffTrigger.apxt" selected. The main area contains the Apex trigger code. Below the code editor is a navigation bar with tabs: Logs, Tests, Checkpoints, Query Editor, View State, Progress, and Problems. The Problems tab is currently active. At the bottom of the screen, there is a taskbar with various icons and system status information.

```
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 Platform User.
3. Under Clone Profile:

Profile Name : NGOs Profile

1. Then click on Save

The screenshot shows the Salesforce Setup interface for managing Profiles. The top navigation bar includes tabs for Welcome to Salesforce, Verify, Student - Skill Wallet, and Profiles | Salesforce. The main content area is titled 'Profiles' and shows a list of existing profiles. A search bar at the top of the list allows for filtering by 'Profile Name'. The list includes columns for 'Action', 'Profile Name' (with 'NGOs Profile' selected), 'User License' (set to 'Salesforce Platform'), and 'Custom' (checkbox checked). A 'New Profile' button is visible at the top left of the list. The bottom of the screen shows the Windows taskbar with various pinned icons and system status information.

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

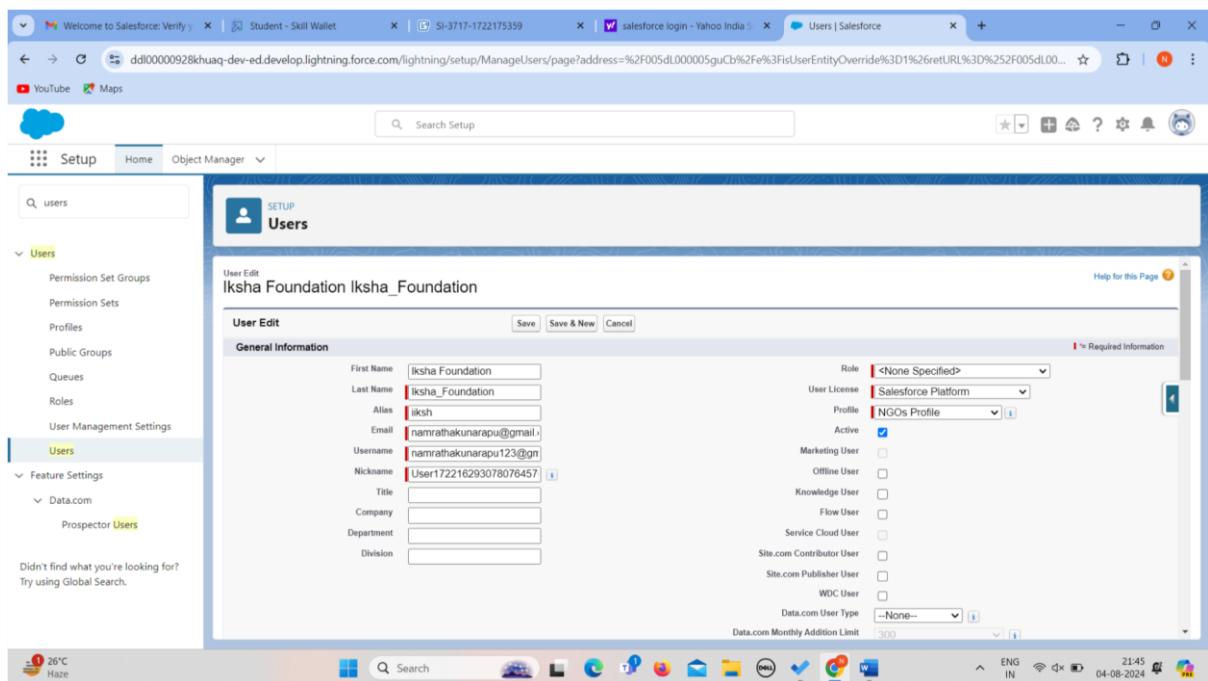
Username : ikshafoundation@sb.com (give the username different)

Nickname : Auto Populated

User License : Salesforce Platform

Profile : NGOs Profile

Active : Check

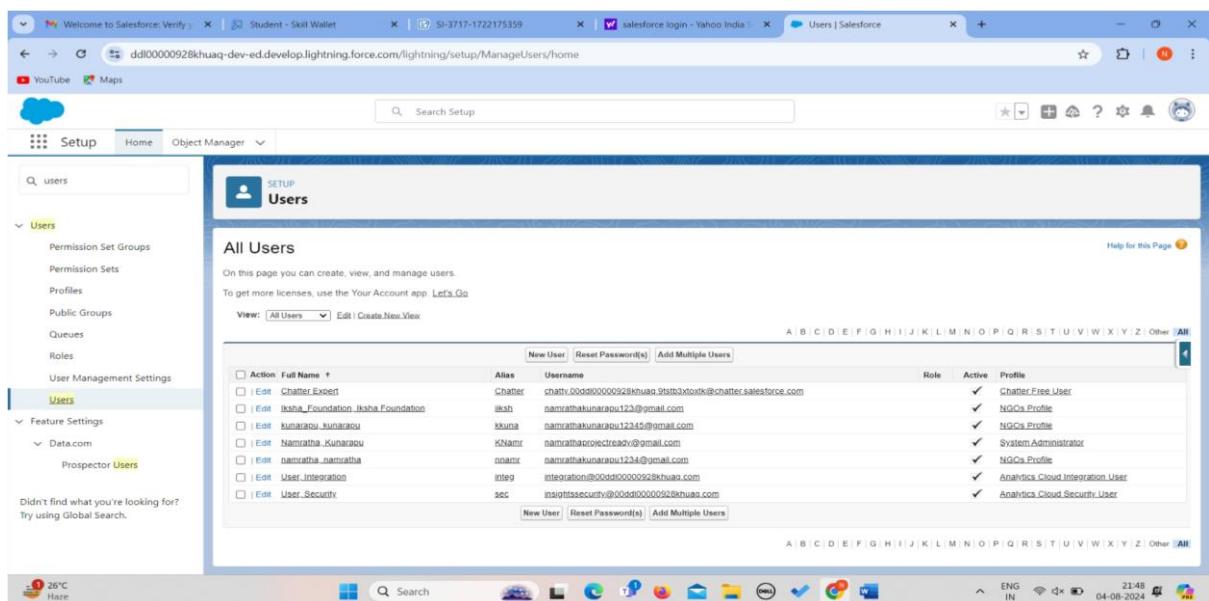


3. Click on Save

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.

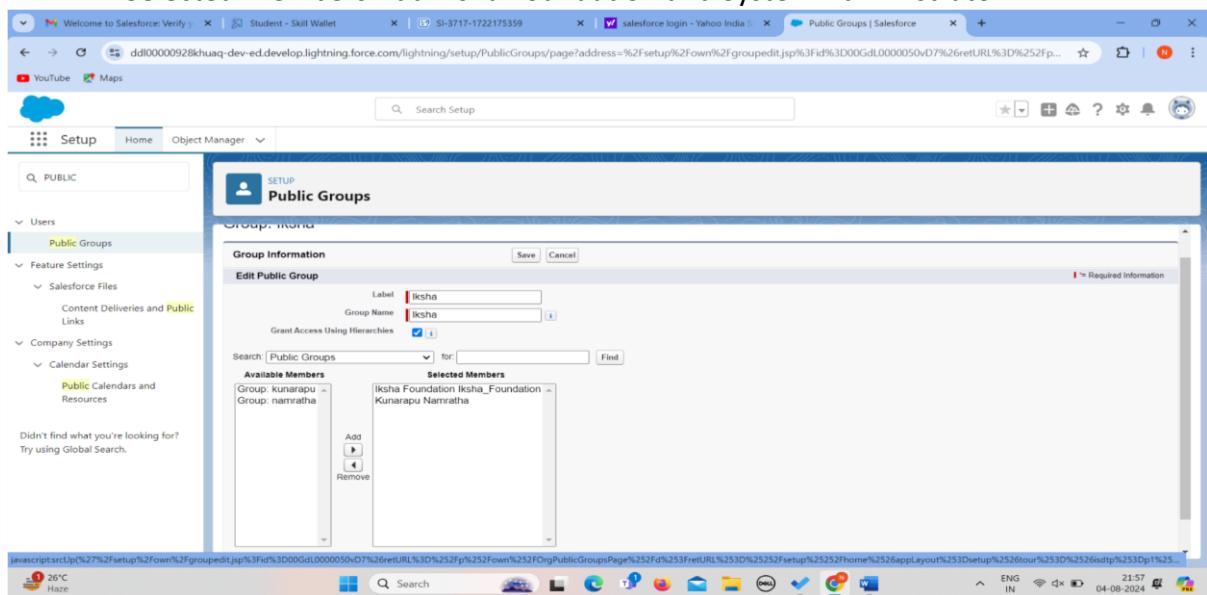


Action	Full Name	Alias	Username	Role	Active	Profile
<input type="checkbox"/>	Chatter Expert	Chatter	chatv.00de0000000000000000000000000000@chatter.salesforce.com		<input checked="" type="checkbox"/>	Chatter Free User
<input type="checkbox"/>	Isha_Foundation_Isha Foundation	isha	namrathakumarapu123@gmail.com		<input checked="" type="checkbox"/>	NGO's Profile
<input type="checkbox"/>	kumarang_kumarang	kkuna	namrathakumarapu12345@gmail.com		<input checked="" type="checkbox"/>	NGOs Profile
<input type="checkbox"/>	Namratha_Kumarou	khmr	namrathakumaroucready@gmail.com		<input checked="" type="checkbox"/>	System Administrator
<input type="checkbox"/>	namratha_namratha	nnam	namrathakumarapu1234@gmail.com		<input checked="" type="checkbox"/>	NGO's Profile
<input type="checkbox"/>	User_Integration	integ	integration@00dd0000000000000000000000000000@chuaq.com		<input checked="" type="checkbox"/>	Analytics Cloud Integration User
<input type="checkbox"/>	User_Security	sec	insightssecurity@00dd0000000000000000000000000000@chuaq.com		<input checked="" type="checkbox"/>	Analytics Cloud Security User

TASK 10:Public Groups

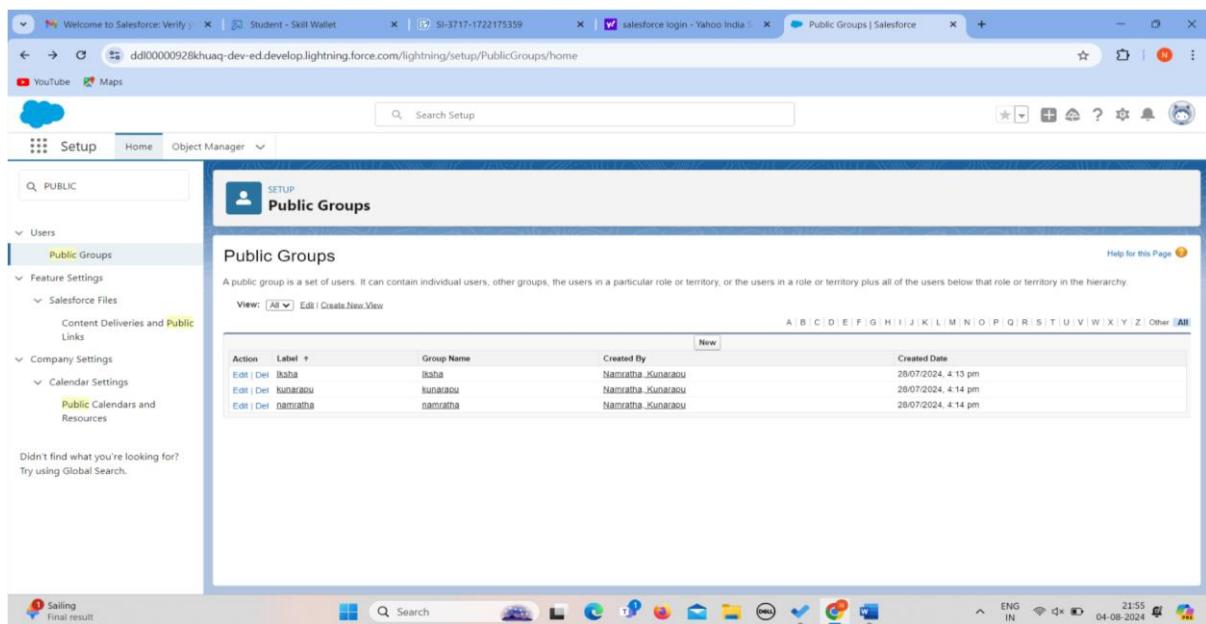
Creation of Public Group 1

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



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.

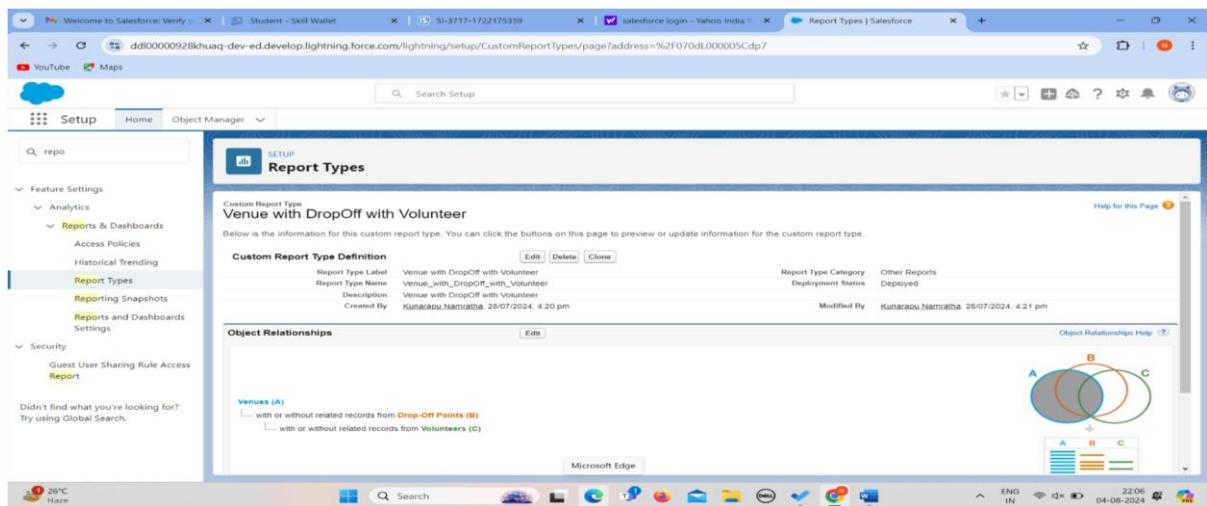


TASK 11: Report Types

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.

The screenshot shows the Salesforce Report Builder interface. A report titled "Venue with DropOff with Volunteer" is displayed. The report table has four columns: "Volunteer Name", "Venue Name", "Drop-Off Point Name", and "Distance". The data in the table is as follows:

Volunteer Name	Venue Name	Drop-Off Point Name	Distance
- (3)	help other	hyderabad	-
	helping hands	-	-
	helping hands	-	-
			Subtotal 0.0000
kunarapu namratha (1)	help other	waranagal	-
			Subtotal 0.0000
Total (4)			0.0000

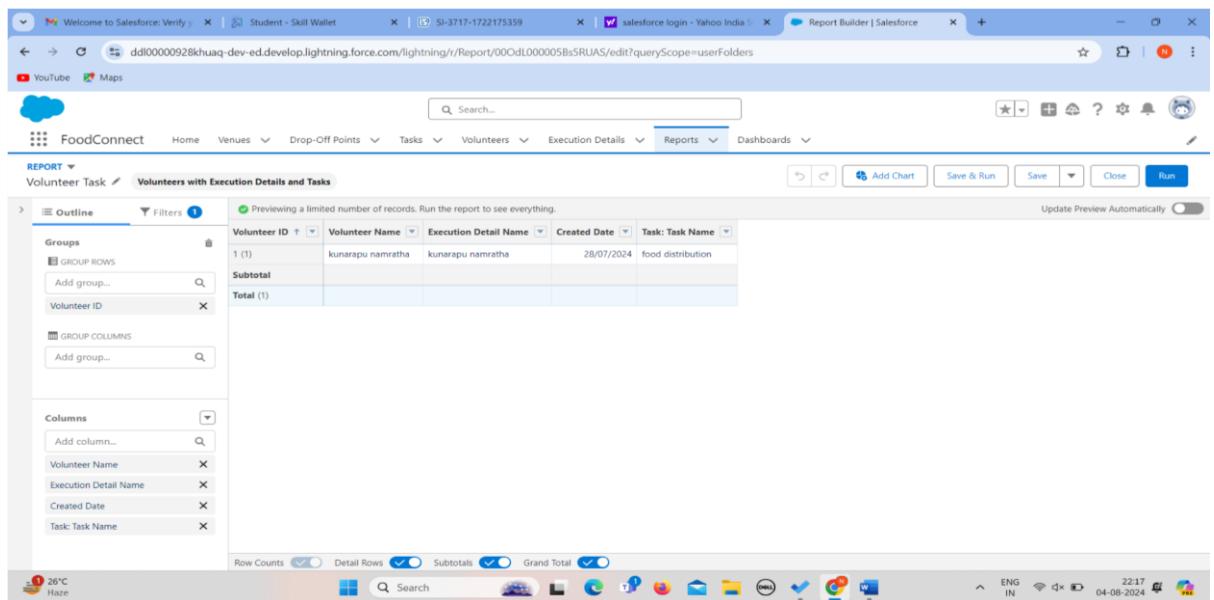
Creation of Report on Volunteers with Execution Details and Tasks

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.
8. Give Label as :

Report Name : Volunteer Task

Report Unique Name : Auto Populated

1. Click on Select Folder and select Custom Report, 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 Custom Dashboards and click on New Dashboards
 4. Name : Organization Details
 5. Click on Widget and select Chart or Table

6. In Select Report : Select venue and Drop Off point Report.

7. Then click on select

8. In Add Component:

Display As : Select Lightning Table

Component Theme : Select Dark (Optional)

The screenshot shows the Lightning Report builder interface. On the left, under 'Report', there is a search bar with 'venue and Drop Off point' and a checkbox for 'Use chart settings from report'. Below this are sections for 'Display As' (with various chart icons) and 'Groups' (with an 'Add group...' button). At the bottom are 'Columns' settings. On the right, under 'Preview', a table titled 'venue and Drop Off point' is displayed with the following data:

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

At the bottom of the preview area is a link '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

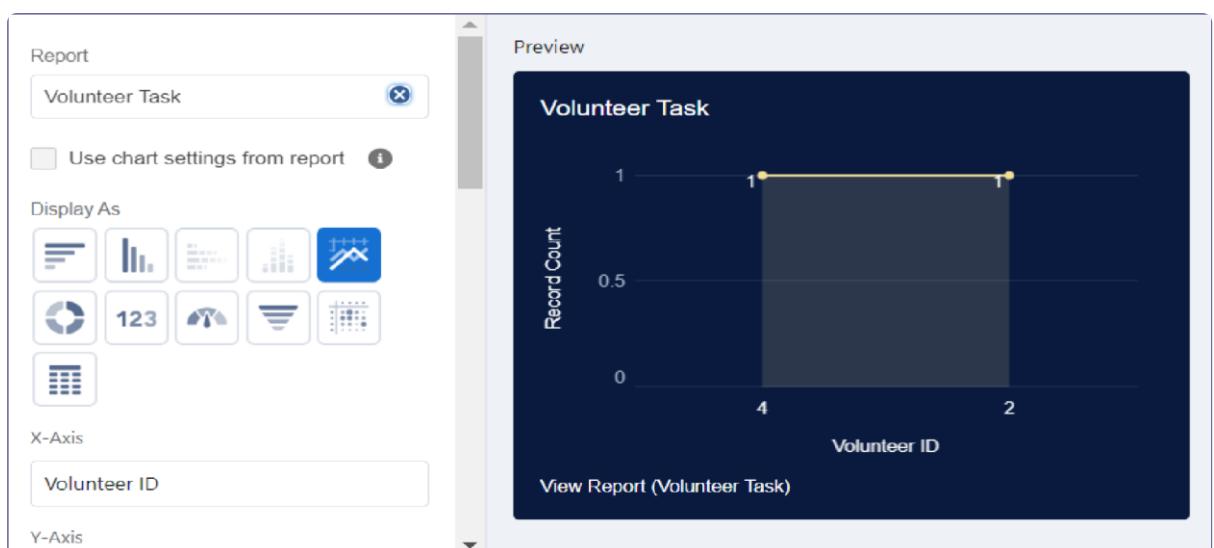
2. In Select Report : Select Volunteer Task Report.

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.

The screenshot shows a Salesforce dashboard titled "Task Execution Details". The dashboard includes two reports and a photograph. The first report, "venue and Drop Off point", lists venues and their drop-off points with distances. The second report, "Volunteer Task", shows a bar chart of record counts by volunteer ID. A photograph on the right shows a person handing out food from a bowl. The dashboard is part of the FoodConnect application.

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

Report Data (Volunteer Task):

Volunteer ID	Record Count
1	1

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:

Field : Operator : Value = Distance : less than : 15

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

7. Click on Save.

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

Label : Rule 2

Rule Name : Rule_2

9. Select your rule type : Select Based on criteria. 10. Select which records to be shared:

Field : Operator : Value = Distance : greater than : 15

Field : Operator : Value = Distance : less or equal : 30

11. Select the users to share with : Near Share With Public

Groups : NSS

12. Click on Save.

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

Label : Rule 3

Rule Name : Rule_3

14.Select your rule type : Select Based on criteria.

15.Select which records to be shared:

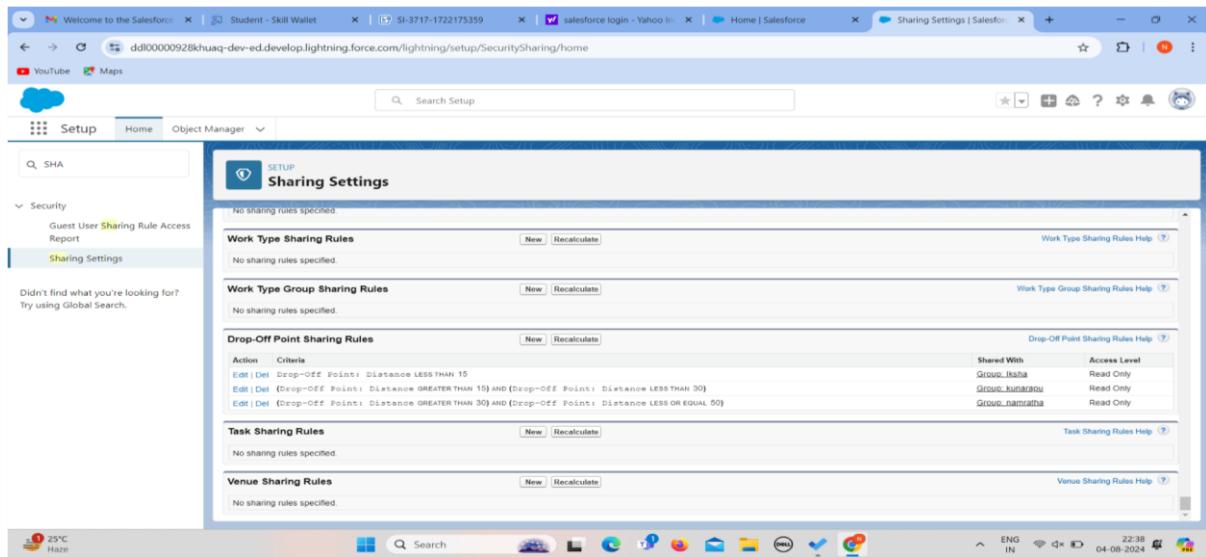
Field : Operator : Value = Distance : greater than : 30

Field : Operator : Value = Distance : less or equal : 50

16.Select the users to share with : Near Share With Public

Groups : Street Cause

17.Click on Save.

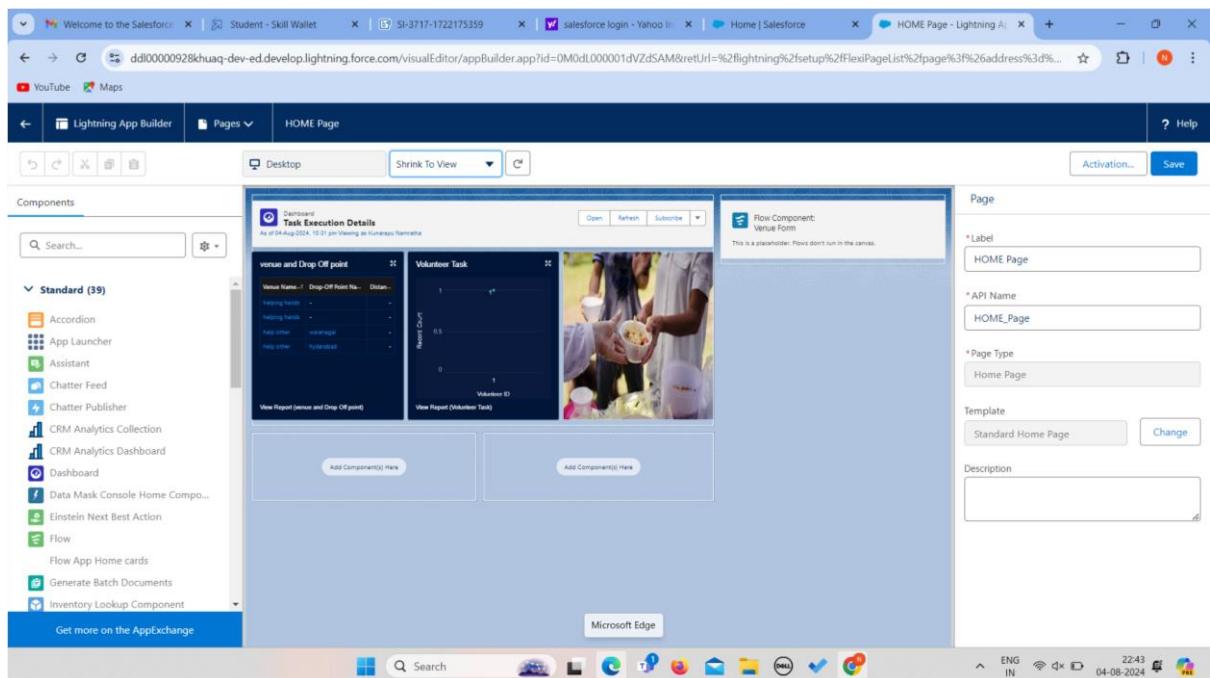


TASK 15:Home Page

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.
8. Add FoodConnect App and then Save.
9. FoodConnect Home Page would Look Like this.

The screenshot shows the FoodConnect application running on a Salesforce platform. On the left, there's a sidebar with 'Dashboard' and 'Task Execution Details'. The main area displays a 'Volunteer Task' section with a chart showing a single record count of 1. Below it is a photo of two people handing out food. To the right is a 'Venue Form' with fields for 'Venue Name', 'Email', 'Phone', 'Venue Location', 'Latitude', and 'Longitude', each with a placeholder value. At the bottom, there's a weather widget showing 25°C Haze and a system status bar with various icons.

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.



