To Supply Leftover Food to Poor

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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.

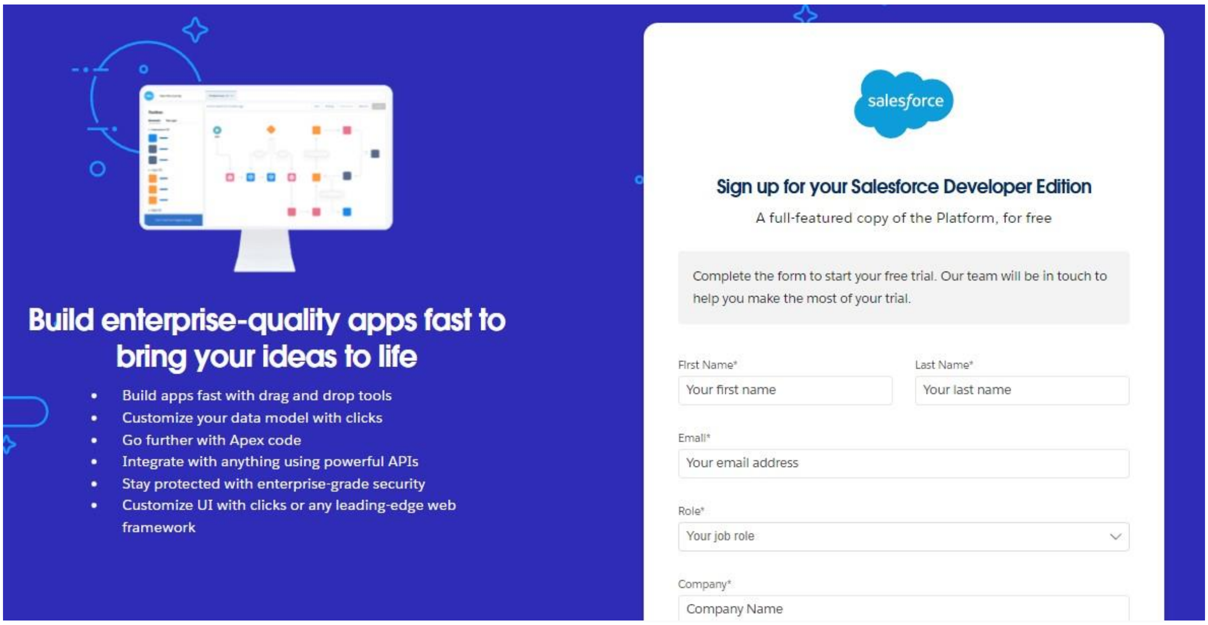
This project not only aims to reduce food waste but also seeks to improve food security for disadvantaged individuals and communities. Through community engagement and leveraging technology, we can create a sustainable model that benefits both the environment and society. By addressing logistical challenges 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 :



1. First name & Last name

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

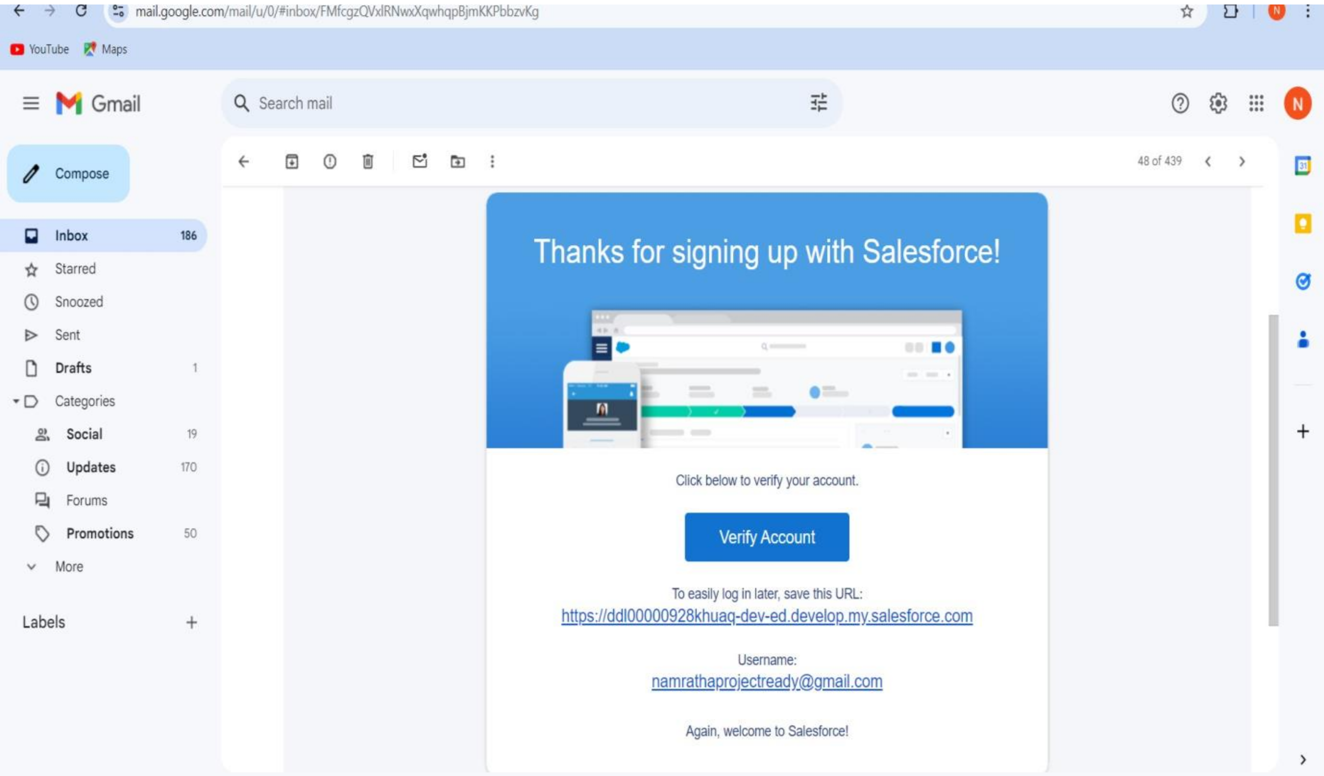
7.Username : should be a combination of your name and company

This need not be an actual email id, you can give anything in the format : username@organization.com

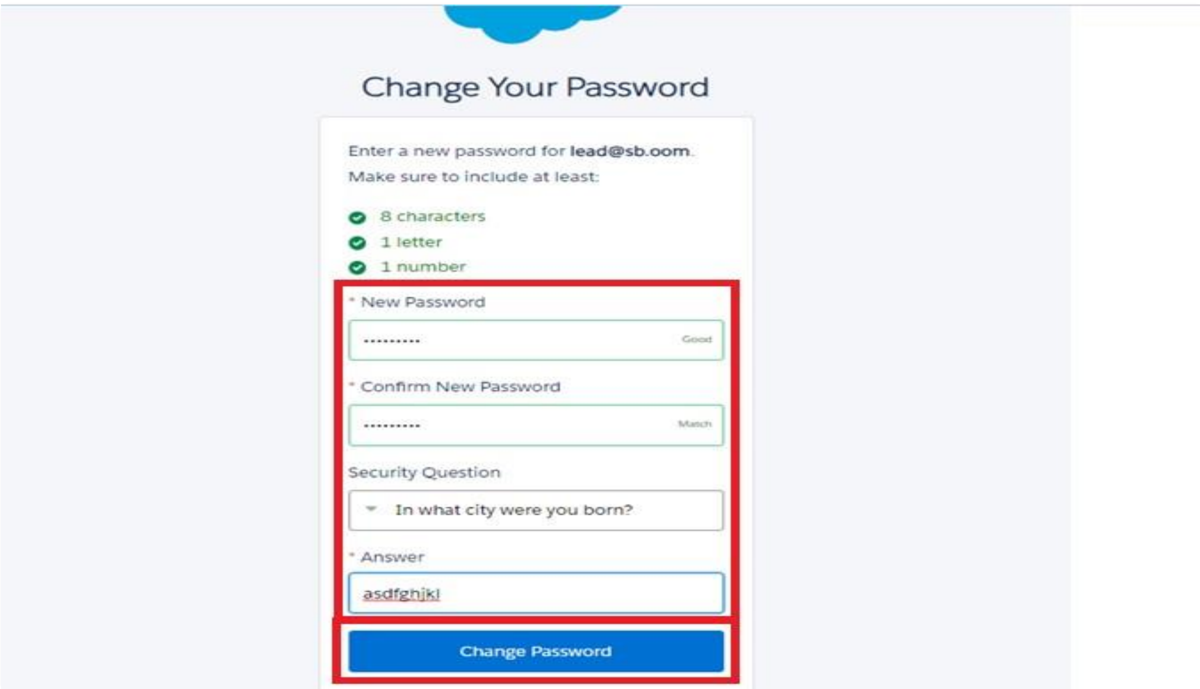
Click on sign me up after filling these.

Account Activation

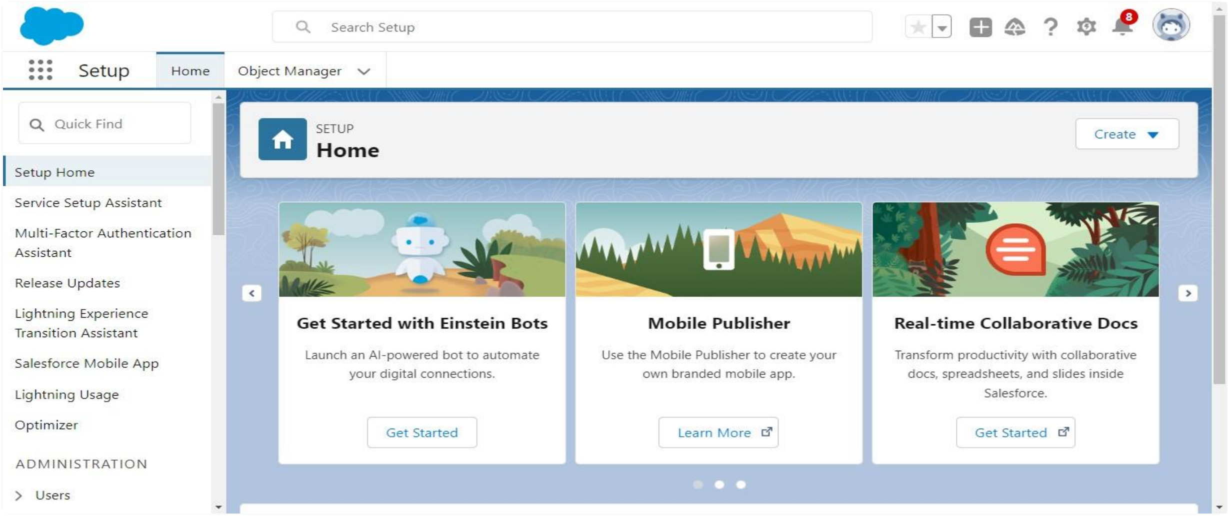
1. Go to the inbox of the email that you used while signing up. Click on the verify account to activate your account. The email may take 5-10mins.



2. Click on Verify Account



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

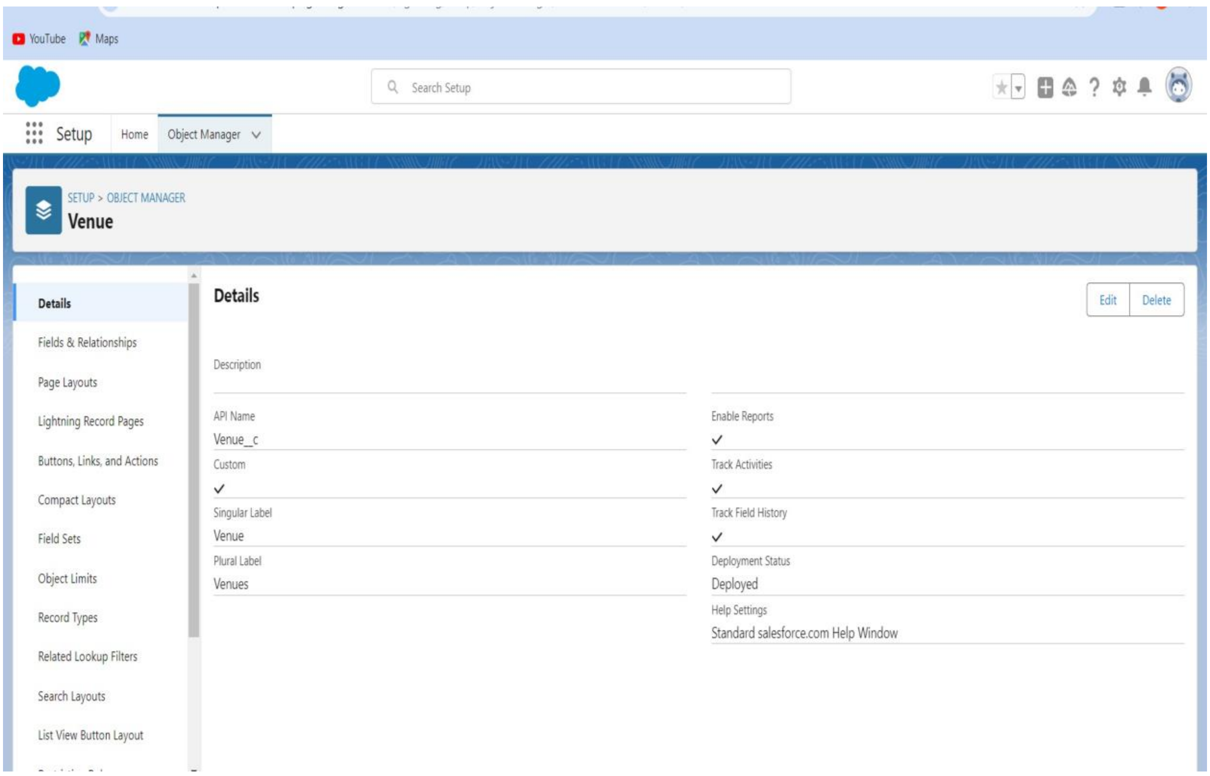
To create an object:

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.



Create Task Object

To create an object:

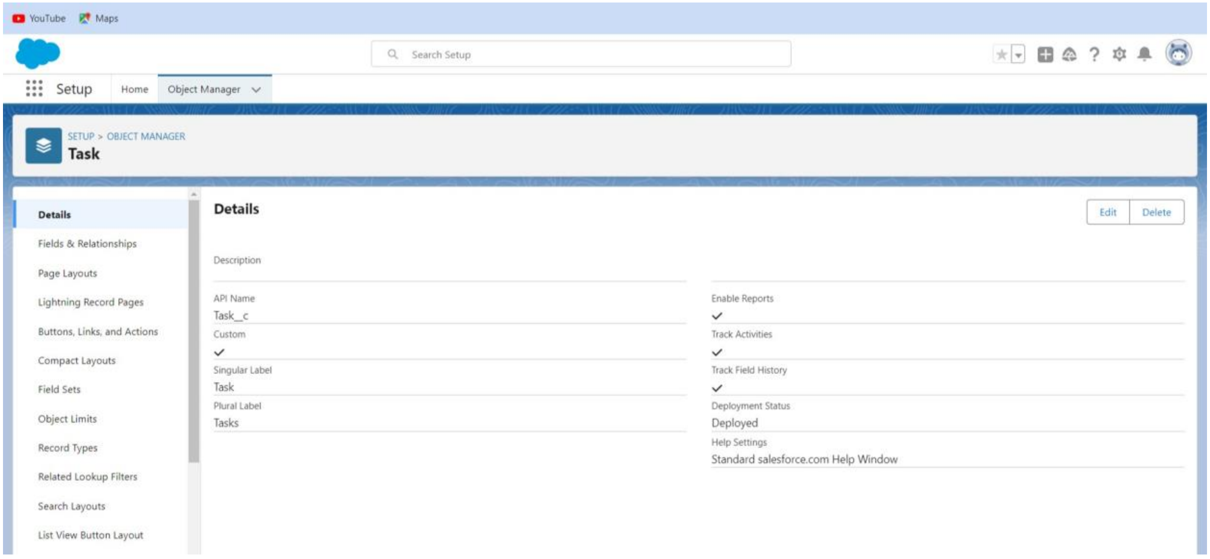
1. From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.

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.



Create Volunteer Object

To create an object:

1. From the setup page >> Click on Object Manager>> Click on Create >> Click on Custom Object.

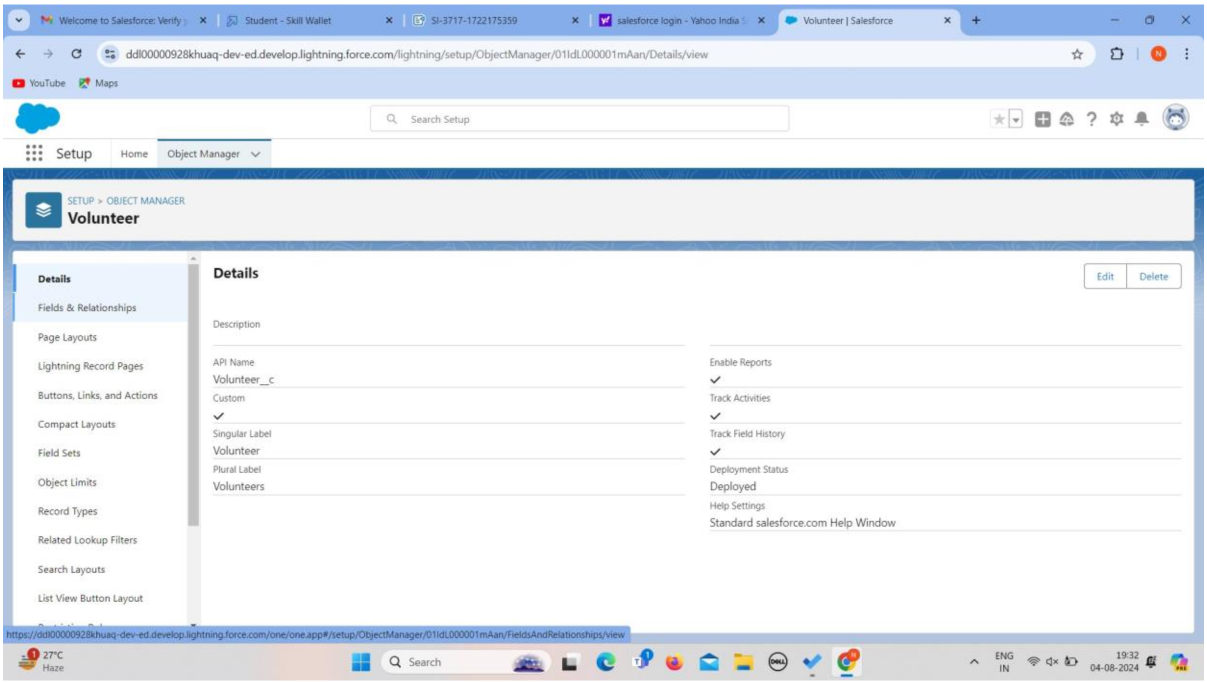
1. Enter the label name>> Volunteer

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



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

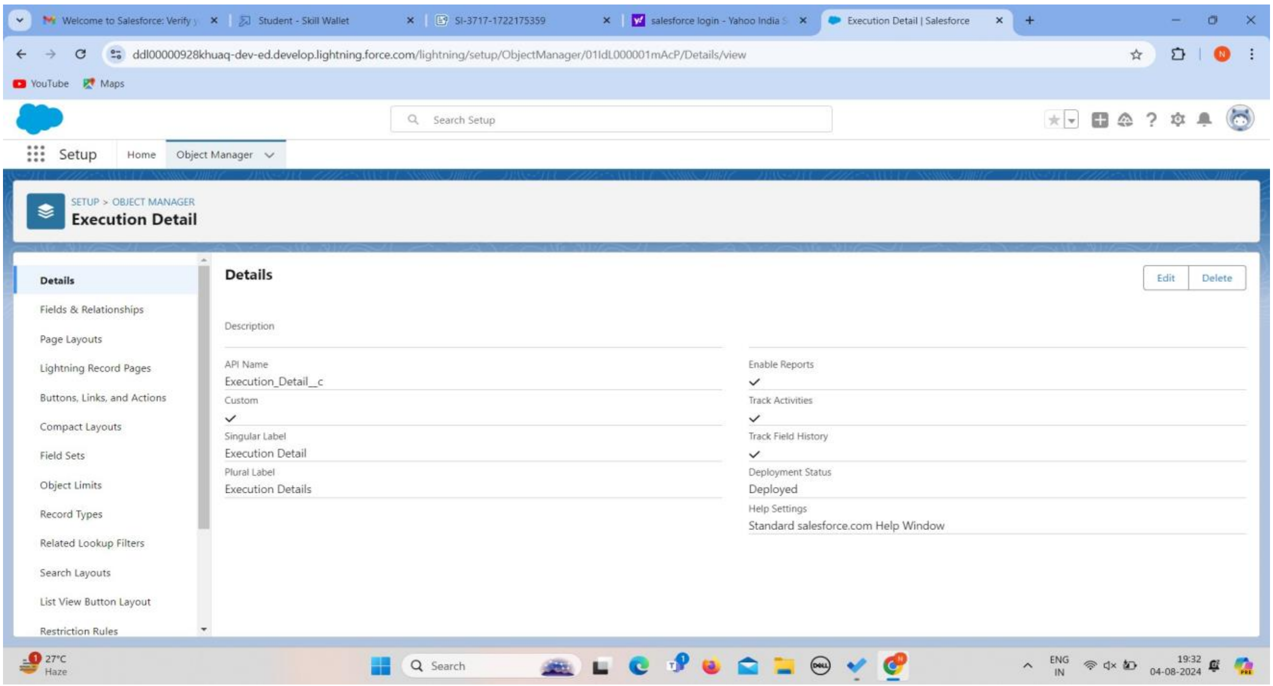
2.Plural label name >> Execution Details 3. Enter Record Name Label and Format

Record Name >> Execution Detail Name

Data Type >> Text

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

4.Allow search >> Save.



TASK 3: Tabs

Creating a Custom Tab

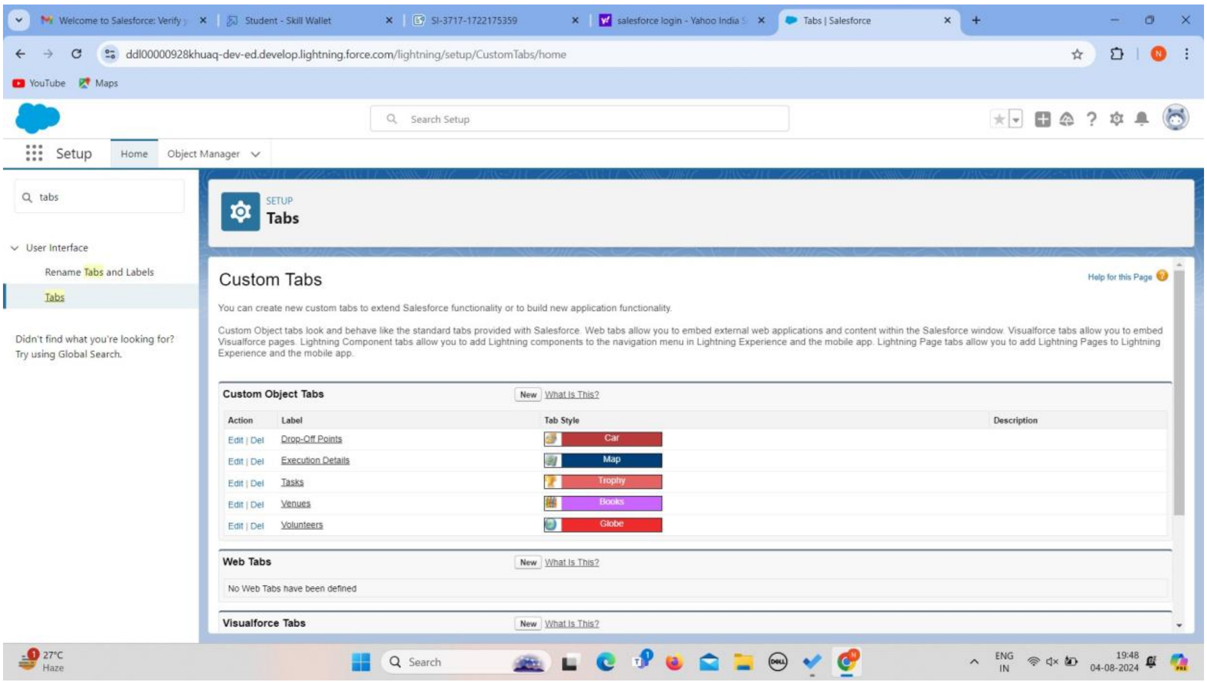
To create a Tab:(Venue)

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.

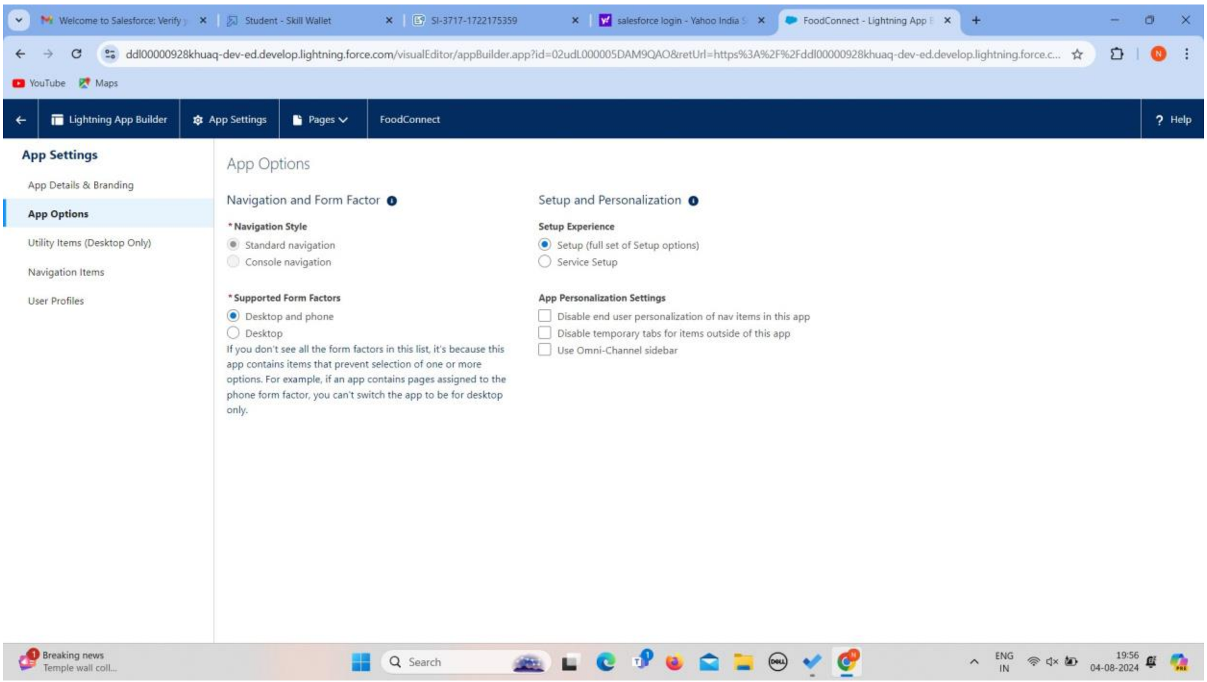
5.To Add Navigation Items:

Search for the item in the (Home, Venue, Drop-Off Point, Task, Volunteer, Execution

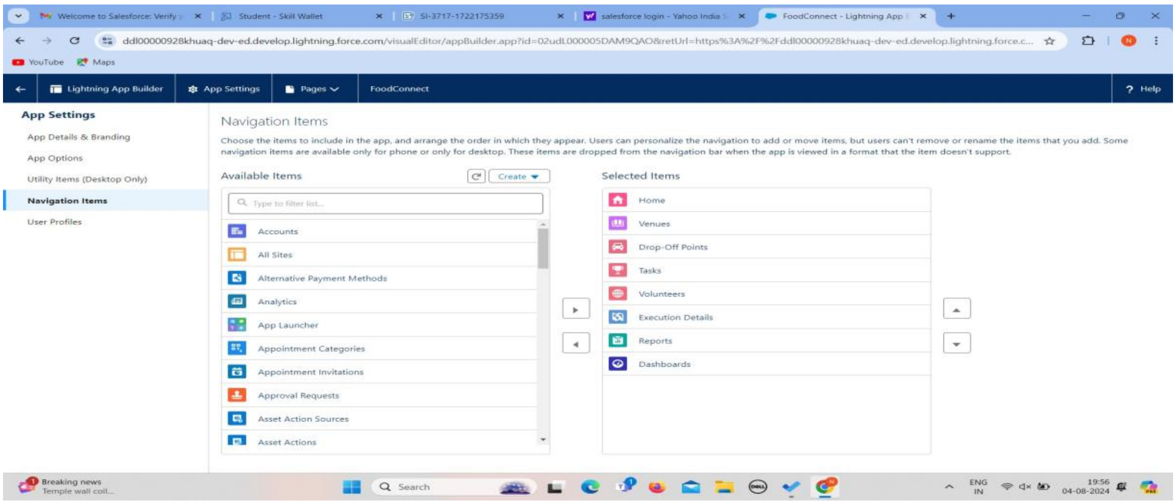
Details, Reports) from the search bar and move it using the arrow button >> Next >> Next.

6.To Add User Profiles

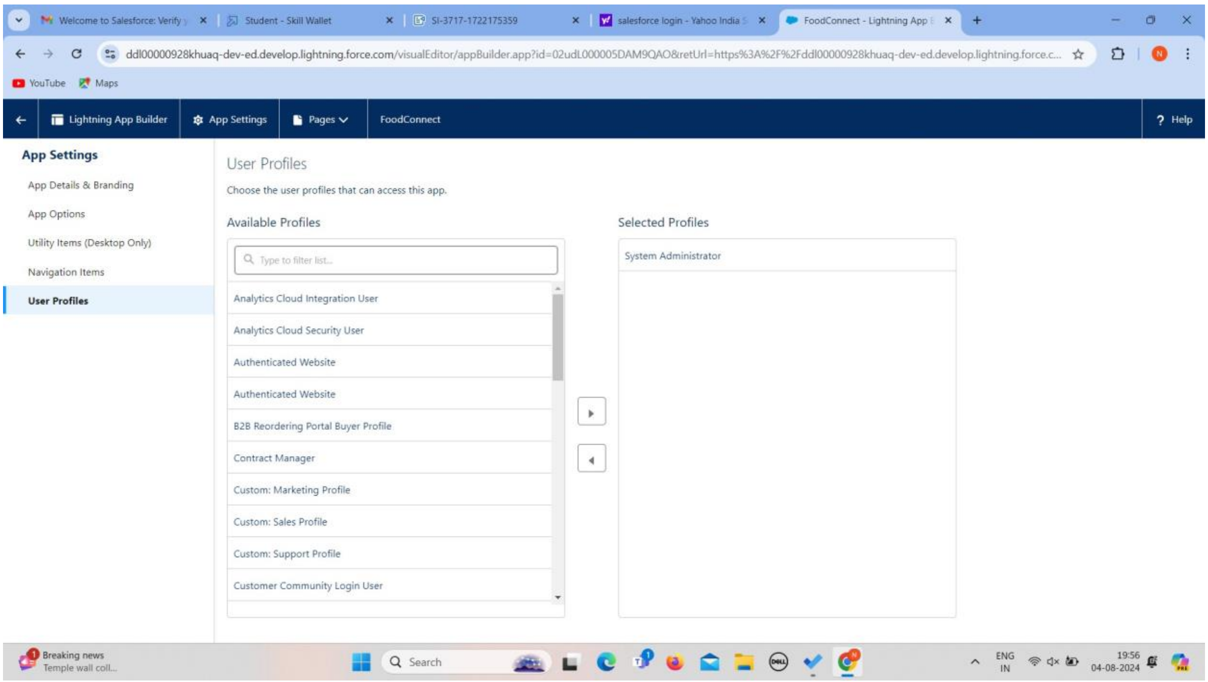
Search profiles (System administrator) in the search bar >> click on the arrow button >> save & finish.



Lightning App Builder
App Settings
Pages
FoodConnect
Help
App Settings
App Details & Branding
App Options
Utility Items (Desktop Only)
Navigation Items
User Profiles
App Options
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.
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



Lightning App Builder
App Settings
Pages
FoodConnect
Help
App Settings
App Details & Branding
App Options
Utility Items (Desktop Only)
Navigation Items
User Profiles
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
Create
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



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:

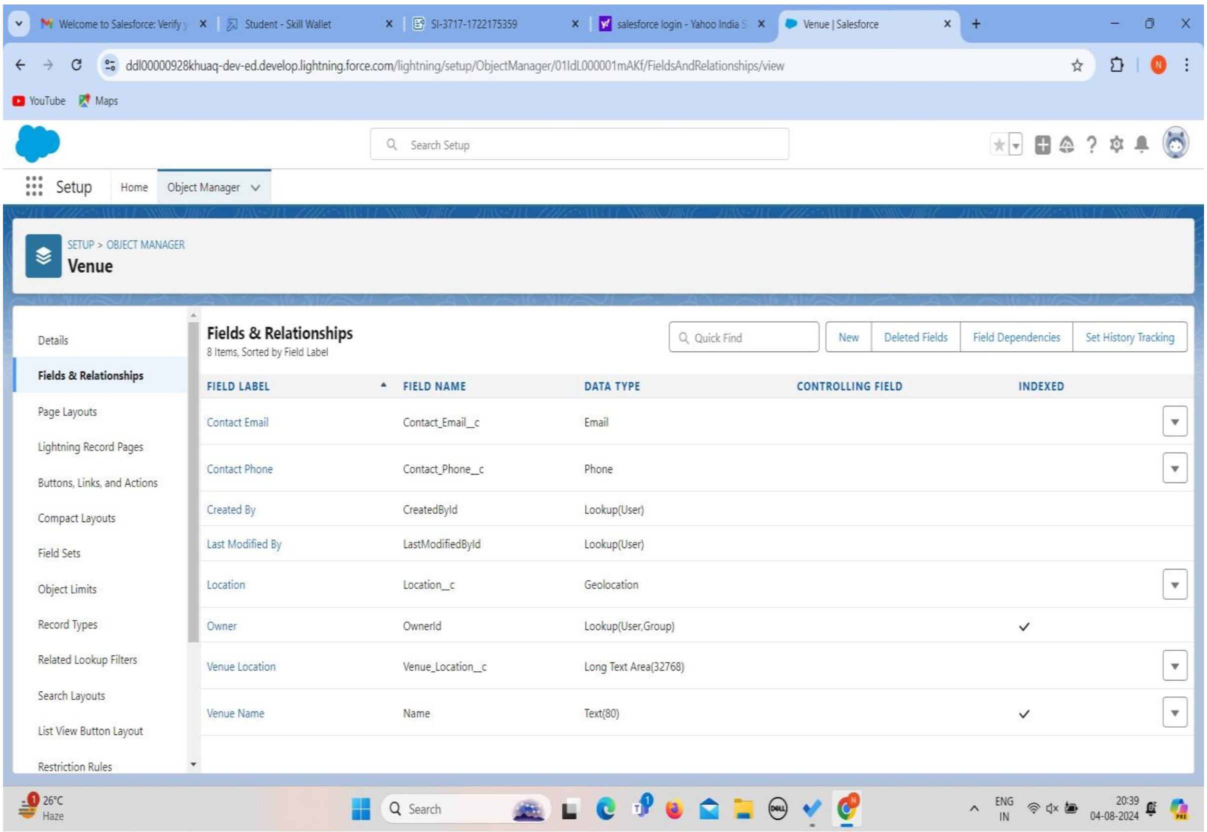
1. Go to setup >> click on Object Manager >> type object name(Venue) in search bar >>click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “Geolocation” and Click on Next
4. Fill the Above as following:

- 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.



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.

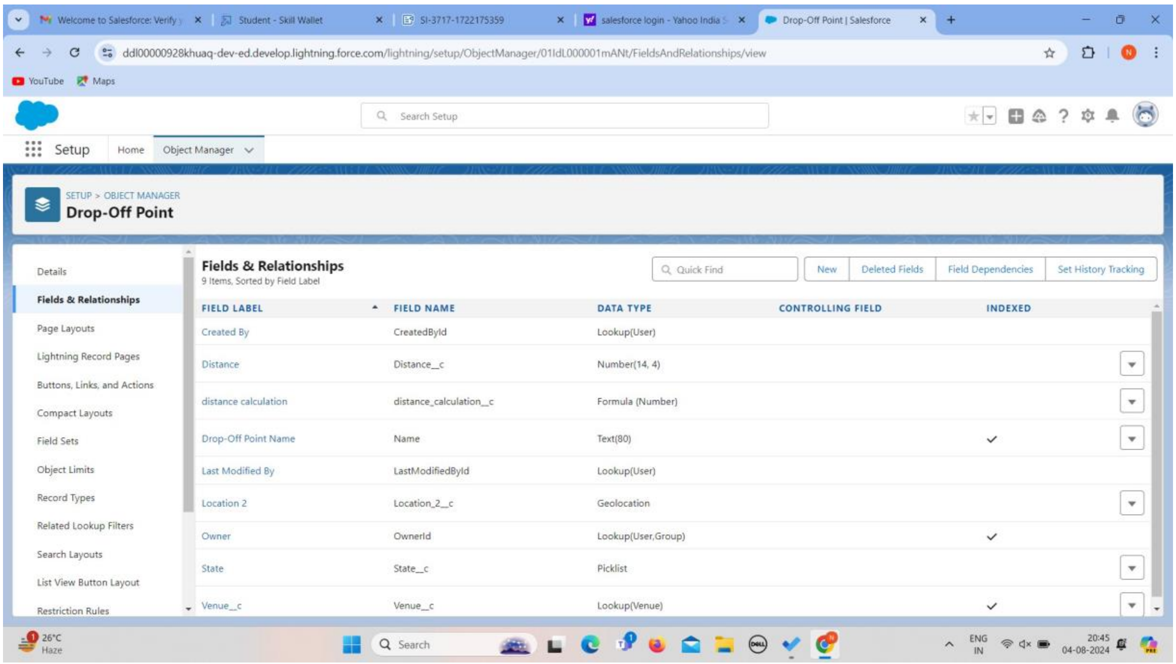
26.Now click on “Fields & Relationships” >> New

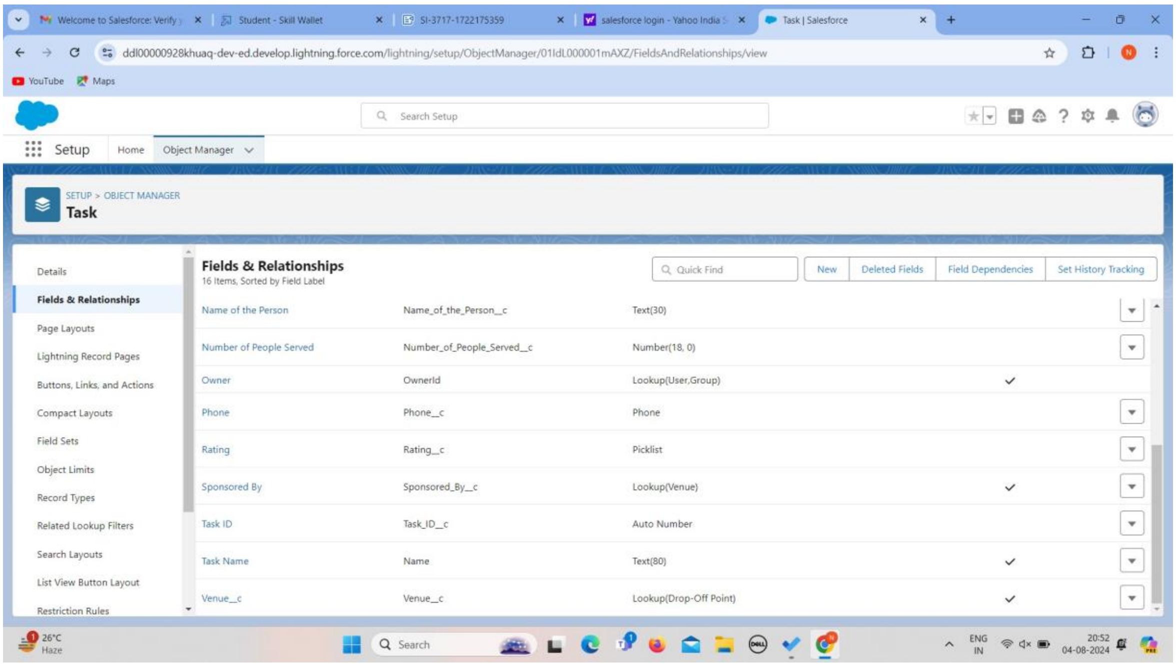
27.Select Data type as a “Long Text Area” and Click on Next

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
ddl00000928khuaq-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01IdL000001mANt/FieldsAndRelationships/view
YouTube
Maps
Search Setup
Setup
Home
Object Manager
SETUP > OBJECT MANAGER
Drop-Off Point
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
Fields & Relationships
9 Items, Sorted by Field Label
Quick Find
New
Deleted Fields
Field Dependencies
Set History Tracking
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)
26°C
Haze
Search
ENG
IN
20:45
04-08-2024


Welcome to Salesforce: Verify
Student - Skill Wallet
SI-3717-1722175359
salesforce login - Yahoo India
Task | Salesforce
ddl00000928khuaq-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01IdL000001mAXZ/FieldsAndRelationships/view
YouTube
Maps
Search Setup
Setup
Home
Object Manager
SETUP > OBJECT MANAGER
Task
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
Fields & Relationships
16 Items, Sorted by Field Label
Quick Find
New
Deleted Fields
Field Dependencies
Set History Tracking
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
Search
ENG
IN
20:52
04-08-2024

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:

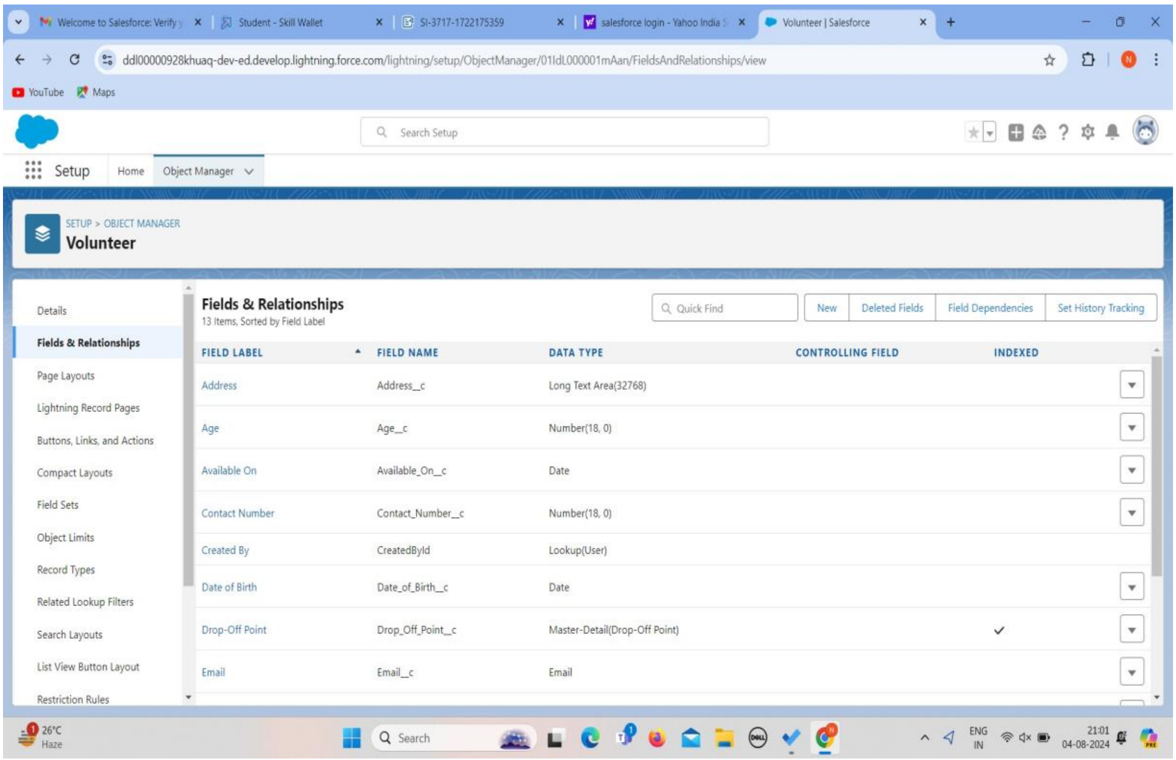
25.Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.

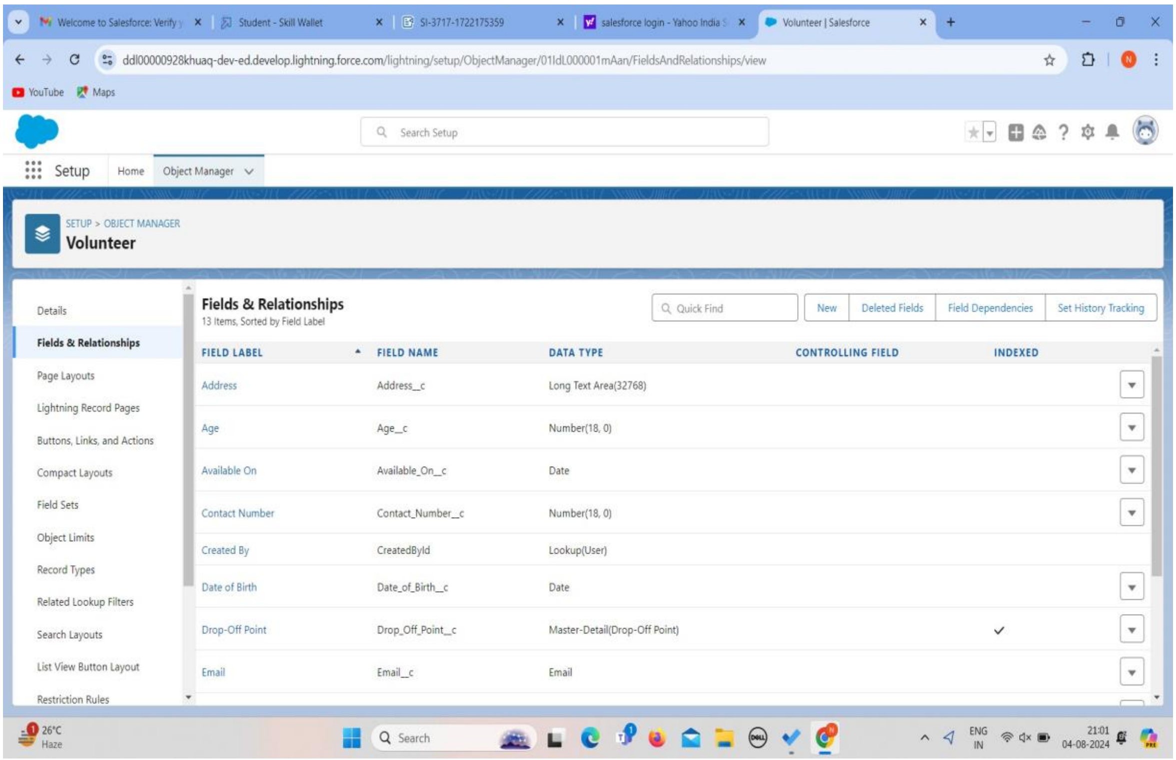
26.Now click on “Fields & Relationships” >> New

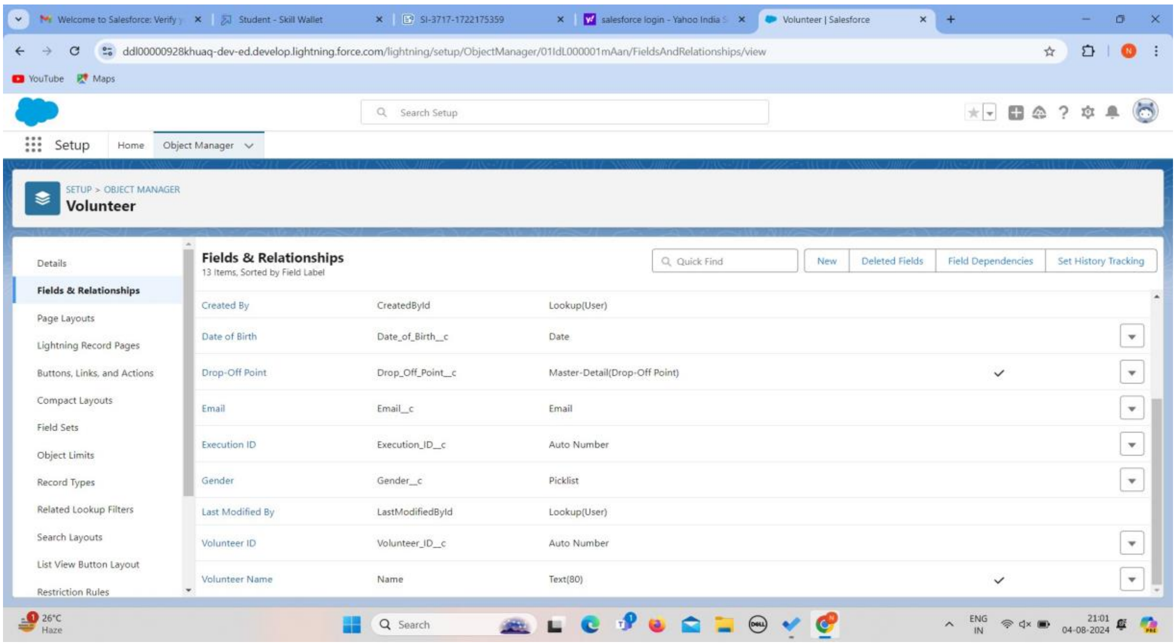
27.Select Data type as a “Date” and Click on Next

28.Fill the Above as following:

- Field Label : Date of Birth
- Field Name : Date_of_Birth
- Click on Next >> Next >> Save and new.


ddl00000928khuaq-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01IdL000001mAan/FieldsAndRelationships/view
Setup
Home
Object Manager
SETUP > OBJECT MANAGER
Volunteer
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
Fields & Relationships
13 Items, Sorted by Field Label
Quick Find
New
Deleted Fields
Field Dependencies
Set History Tracking
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


ddl00000928khuaq-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01IdL000001mAan/FieldsAndRelationships/view
Setup
Home
Object Manager
SETUP > OBJECT MANAGER
Volunteer
Fields & Relationships
13 Items, Sorted by Field Label
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



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

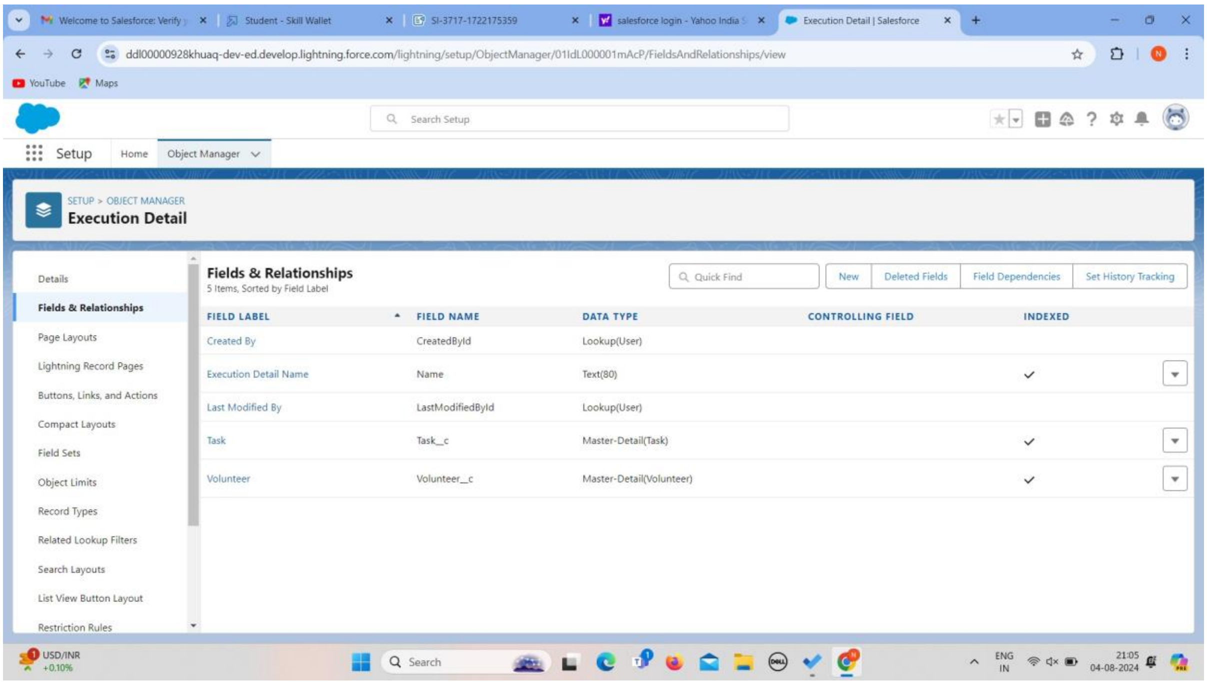
1.Go to setup >> click on Object Manager >> type object name(Volunteer) in search bar >> click on the object.

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:

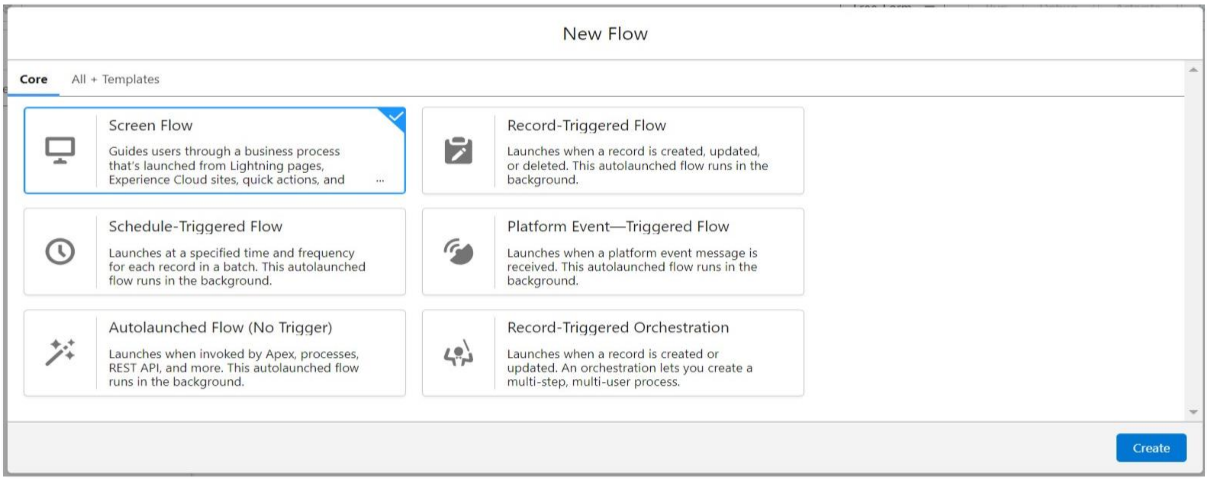
- Field Label : Execution ID
- Field Name : gets auto generated
- Click on required check box
- Click on Next >> Next >> Save and new.



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

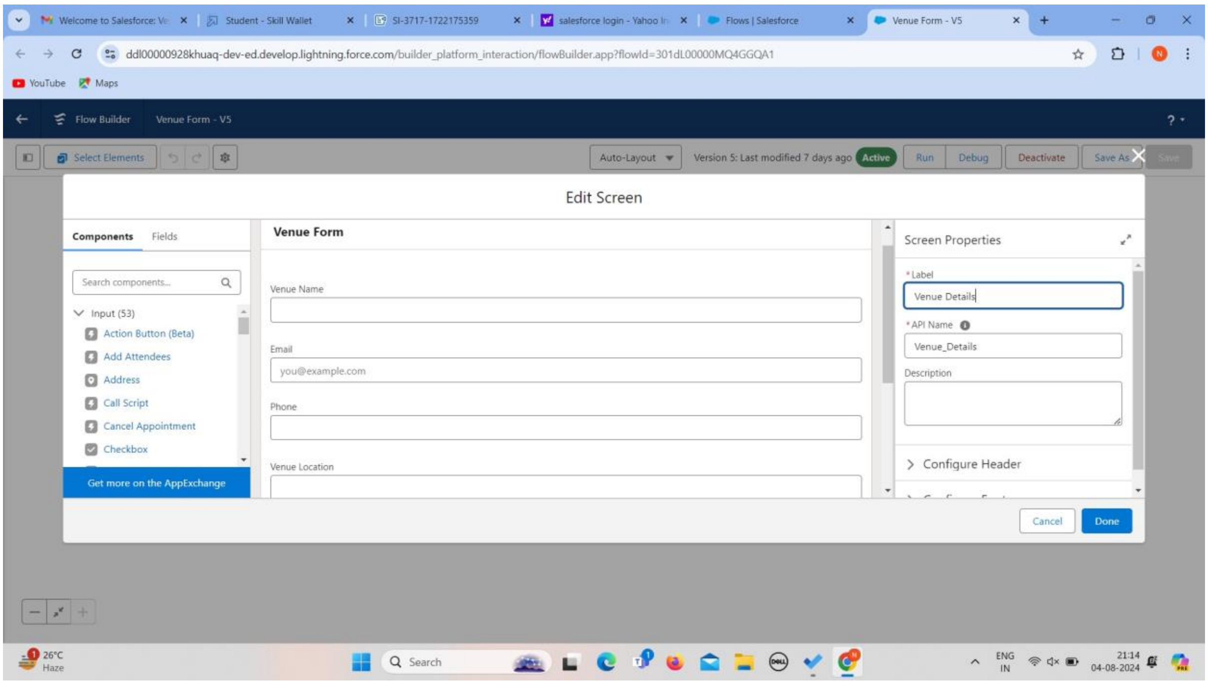
   API Name : Latitude

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}

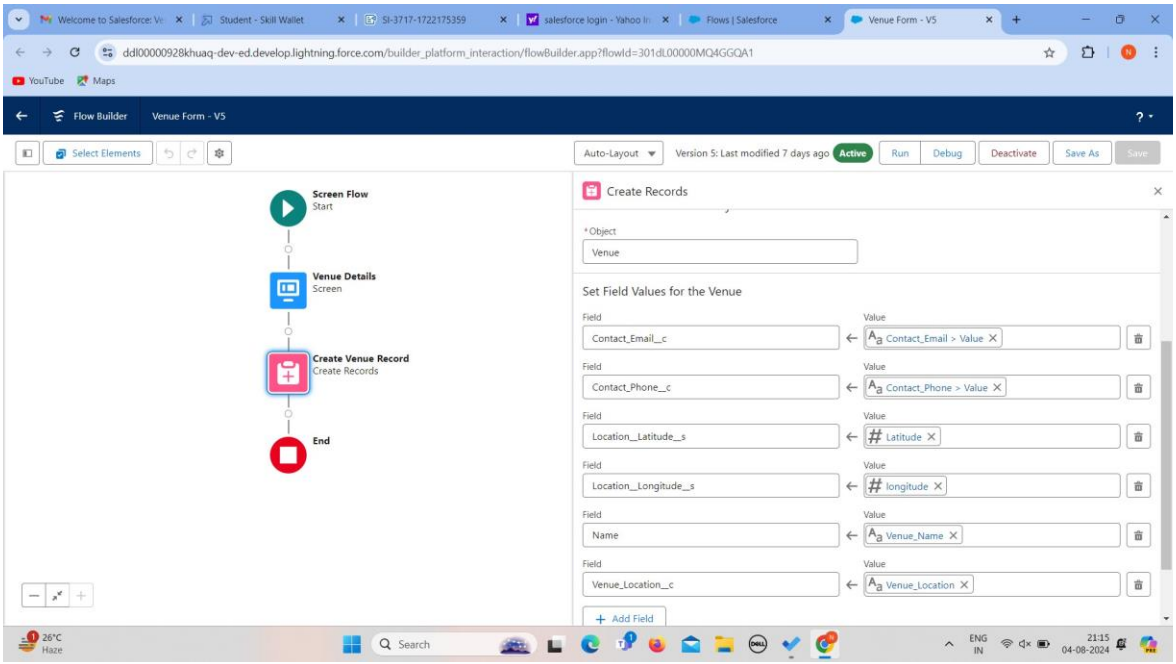
Field : Value = Name : {!Venue_Name}

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:

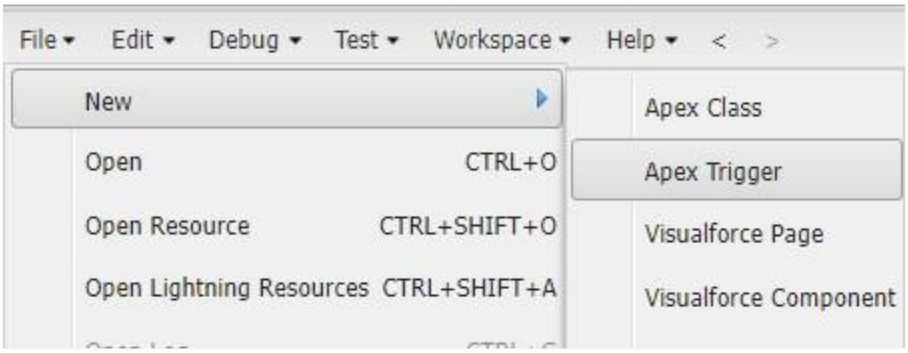
Flow Label : Venue Form

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.



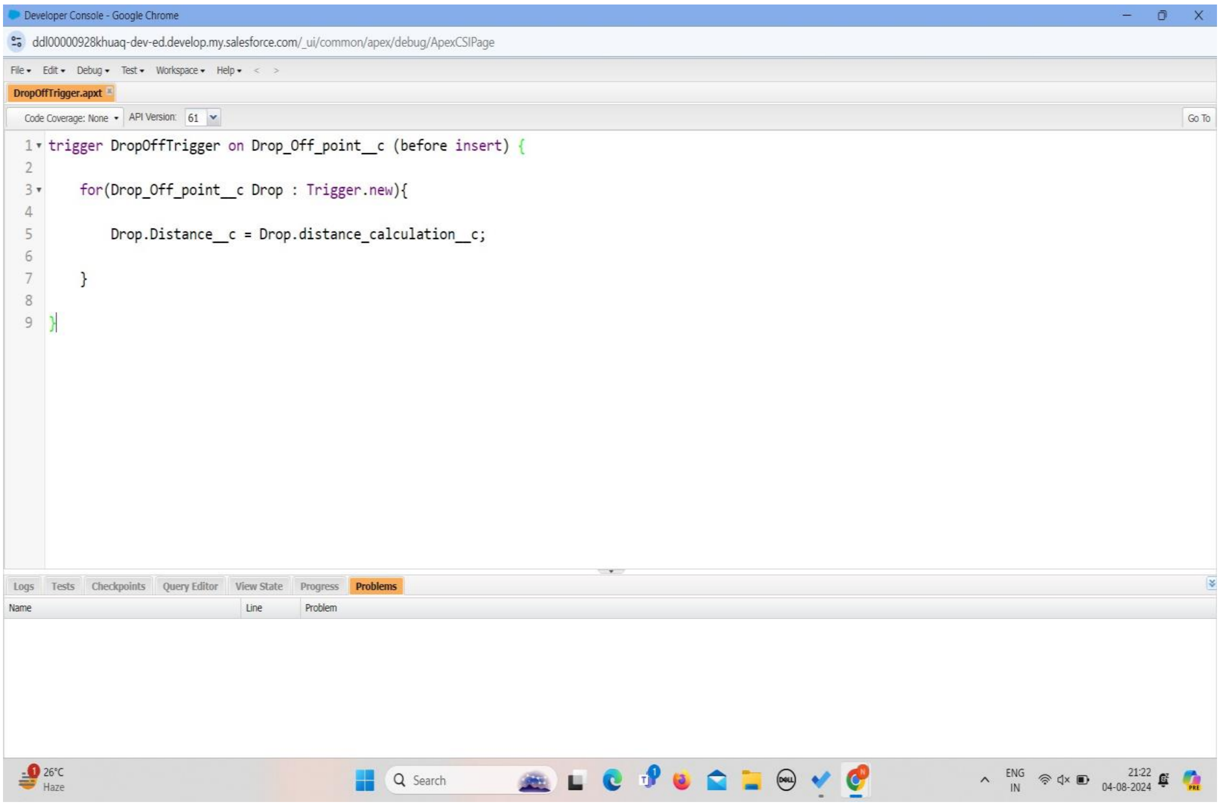
5. Enter Name : DropOffTrigger sObject: Drop-Off Point
6. Click on Submit.

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;
   }
}
```

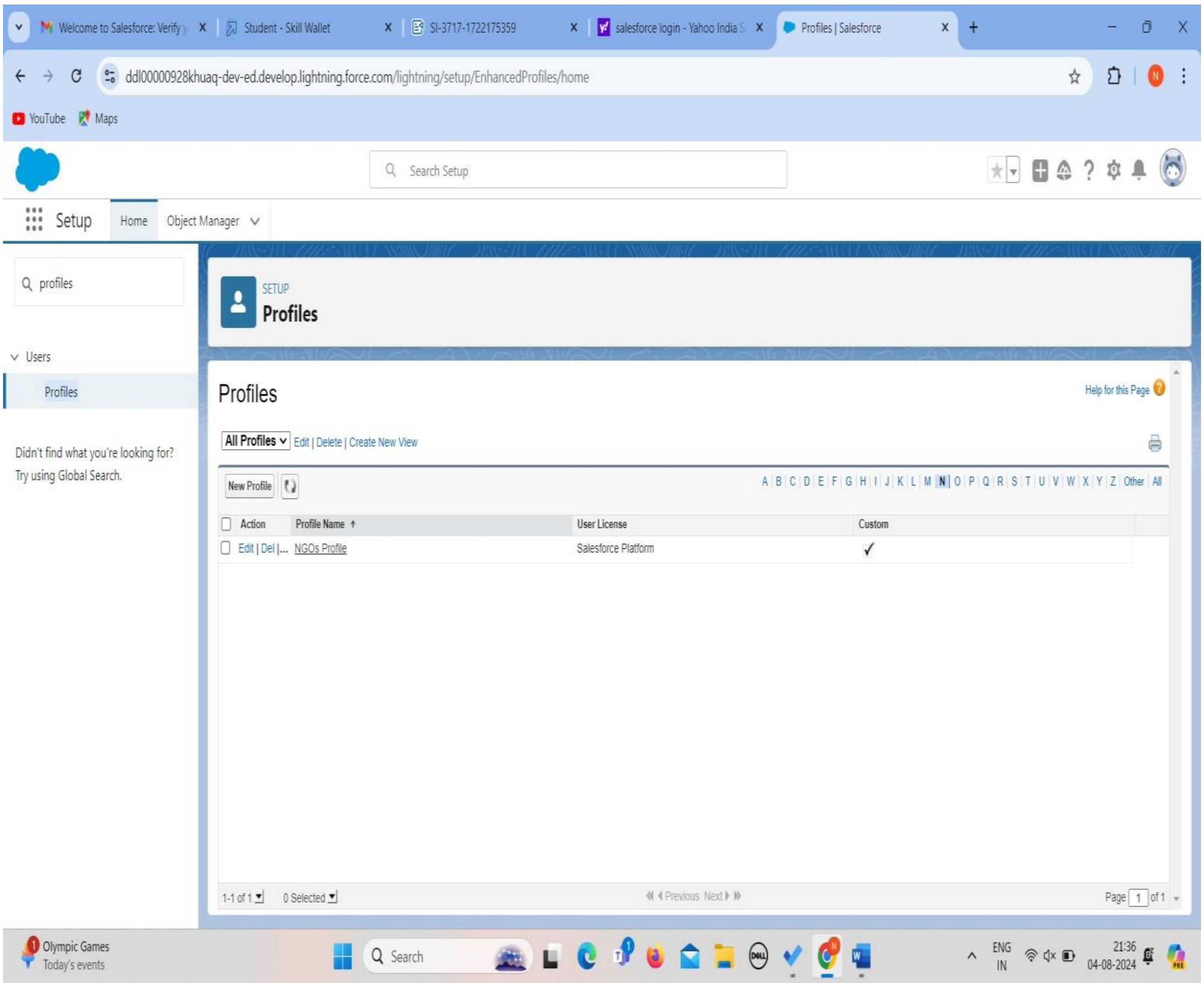


TASK 8: Profiles

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



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

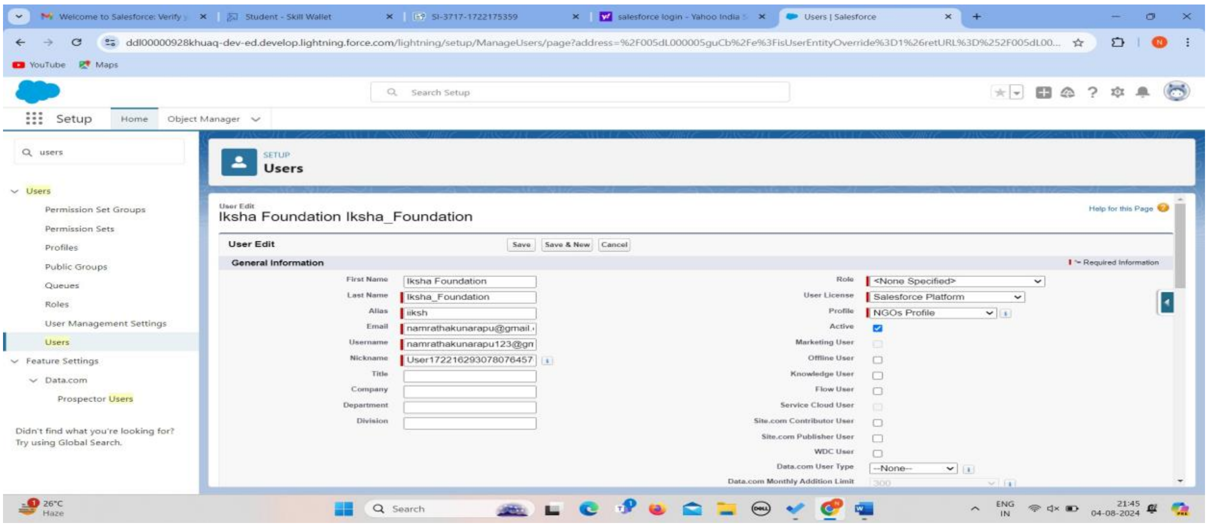
Username : ikshafoundation@sb.com (give the username different)

Nickname : Auto Populated

User License : Salesforce Platform

Profile : NGOs Profile

Active : Check

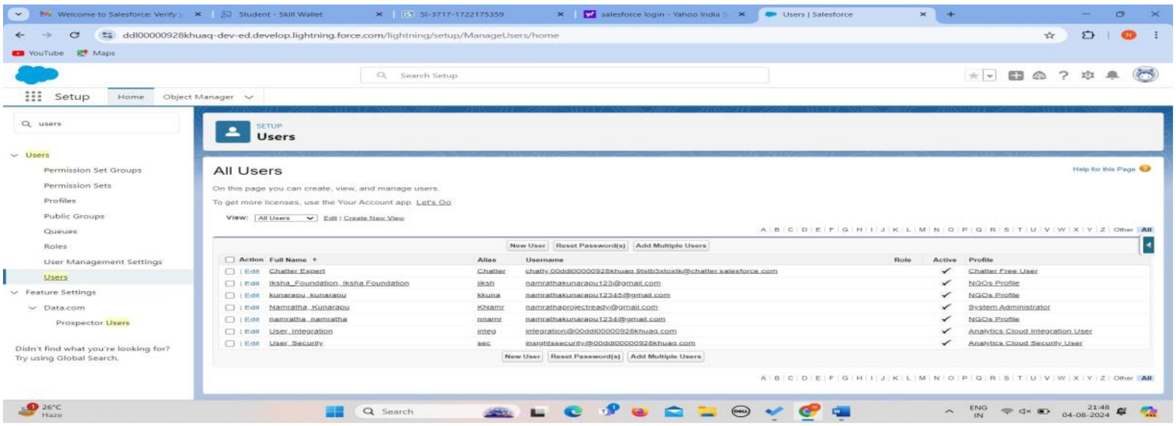


3. Click on Save

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.



TASK 10:Public Groups

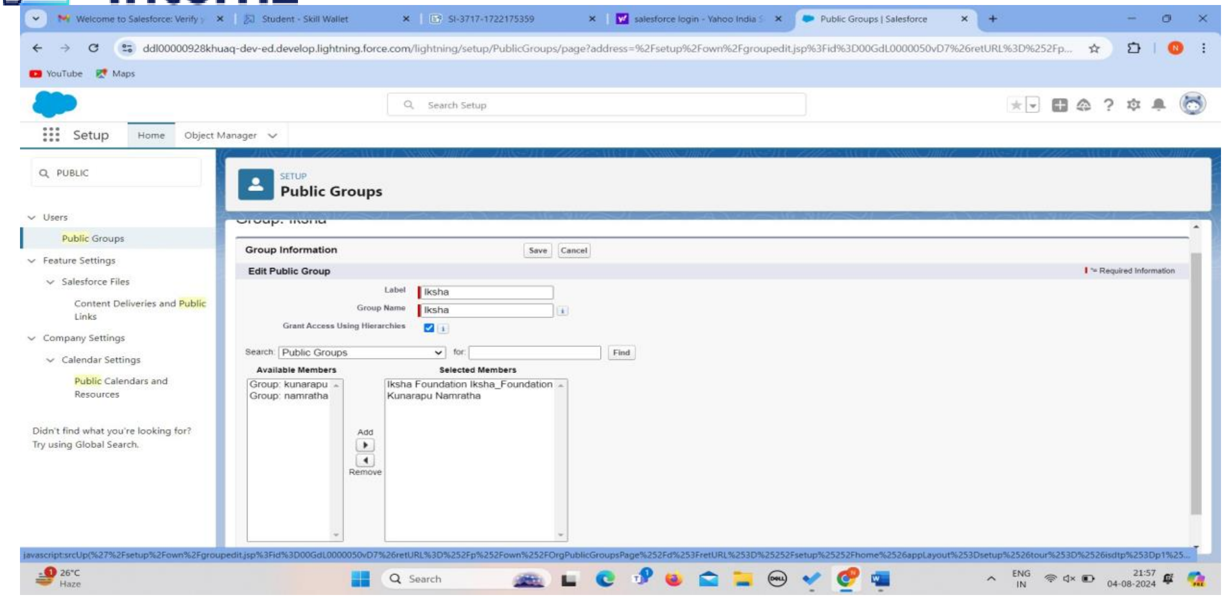
Creation of Public Group 1

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

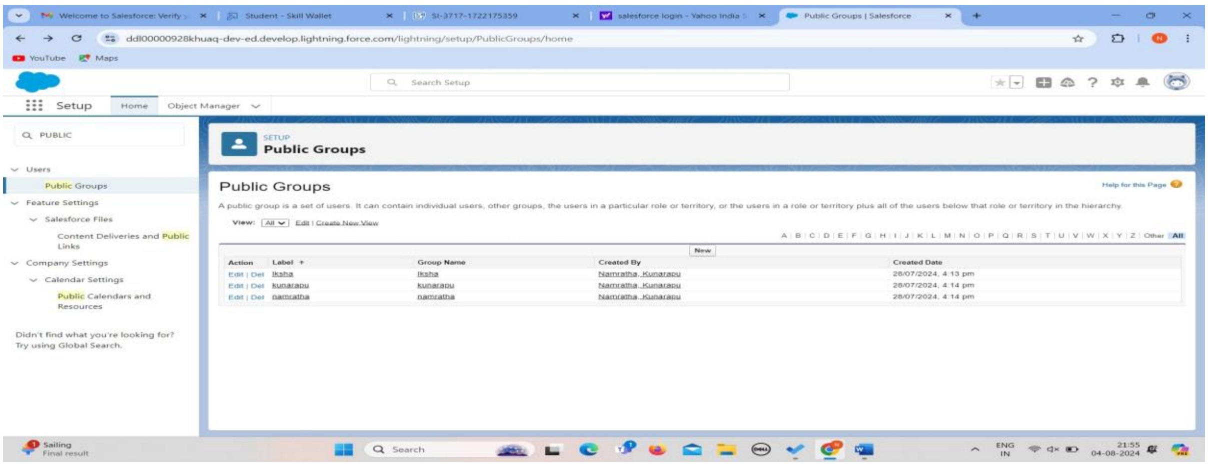
   Group Name : Iksha

   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

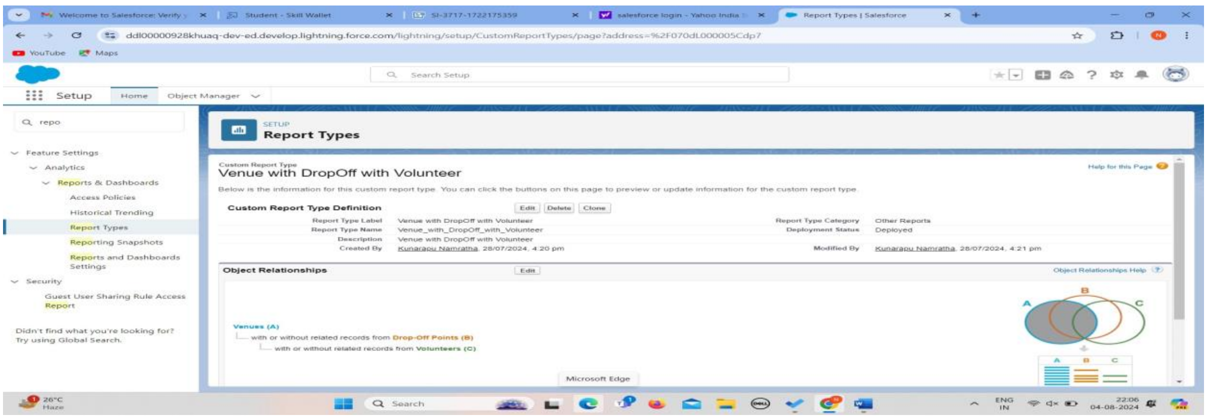
   Report Type Name : Venue_with_DropOff_with_Volunteer

   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

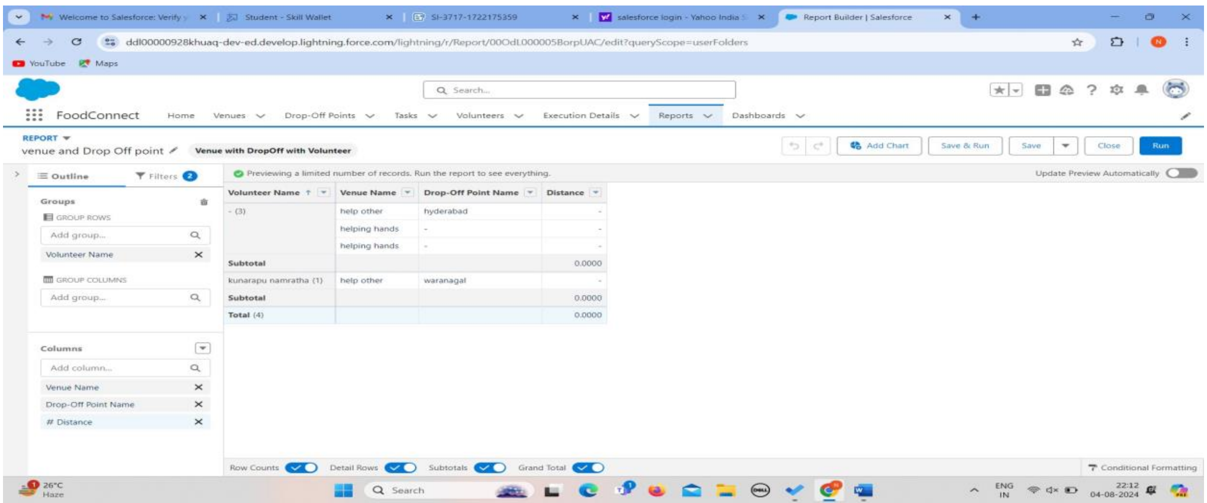
Creation of Report on Venue with DropOff with Volunteer

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.



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

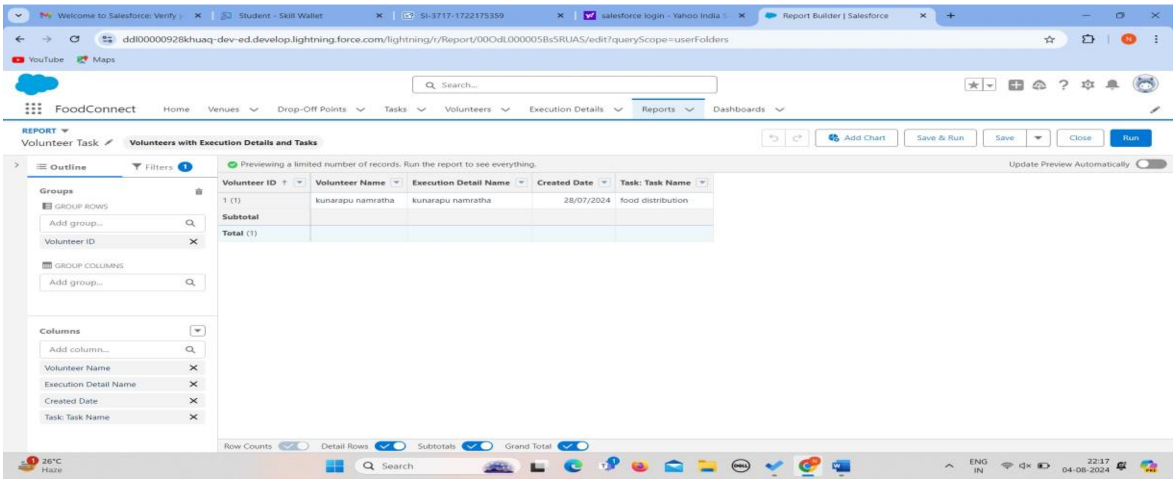
   Detail : Execution Detail Name, Volunteer: Owner Name, Task: Date, Task

   : 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.



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.

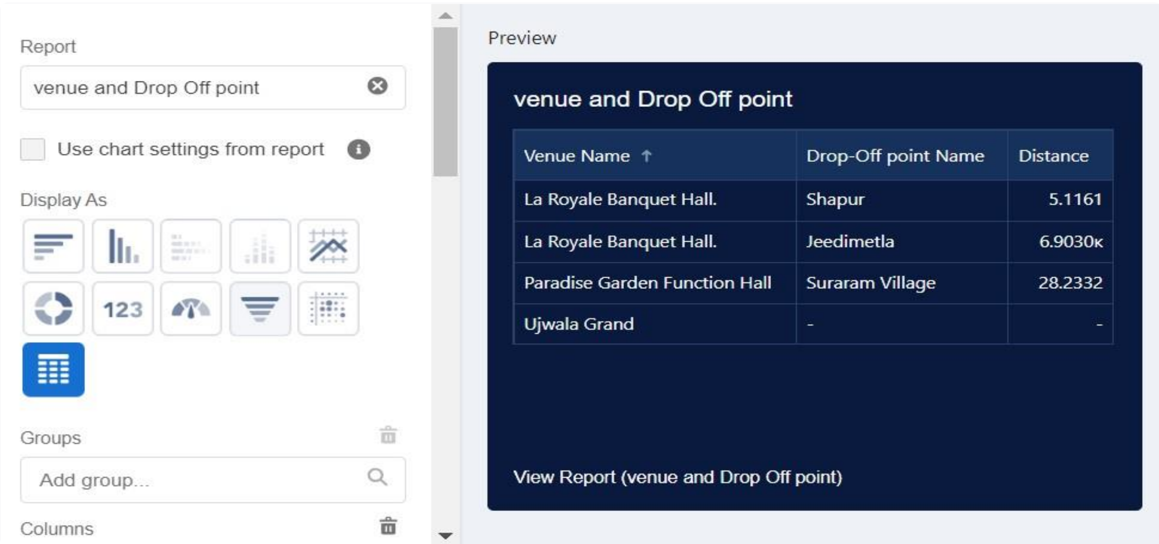
   Folder Label : Custom Dashboards

   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)



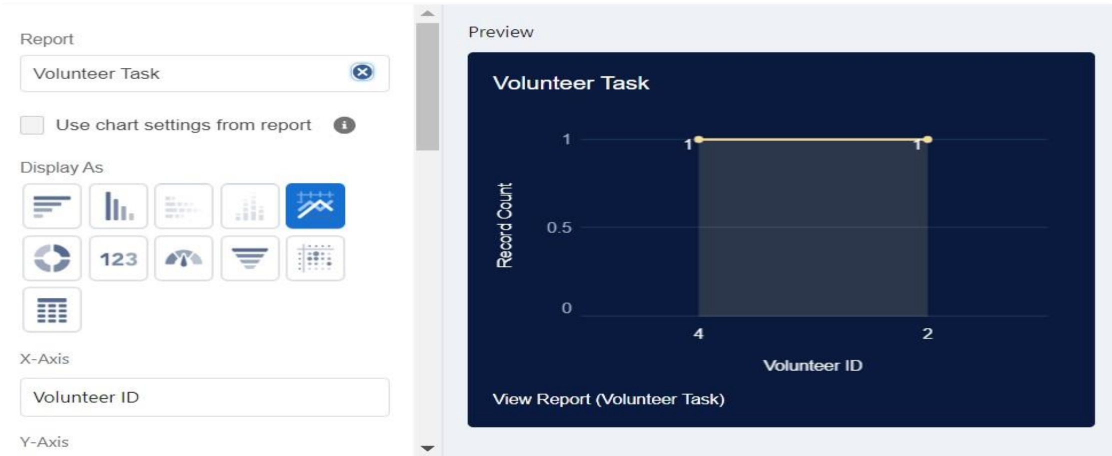
Now click on save

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.

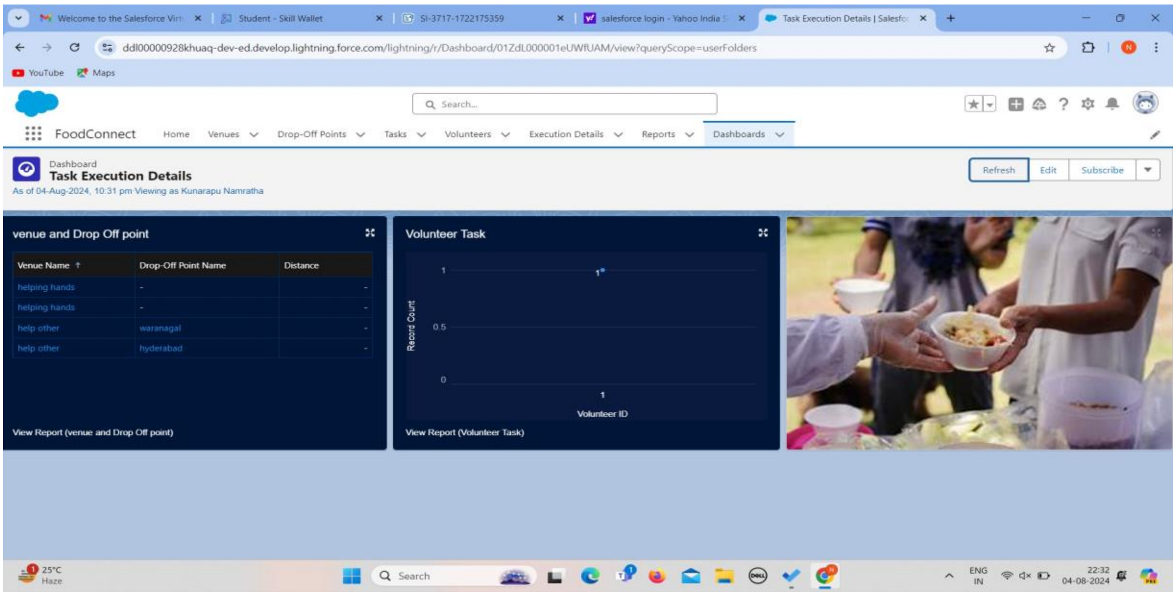
Adding a Picture to the Dashboard (Optional):

(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:

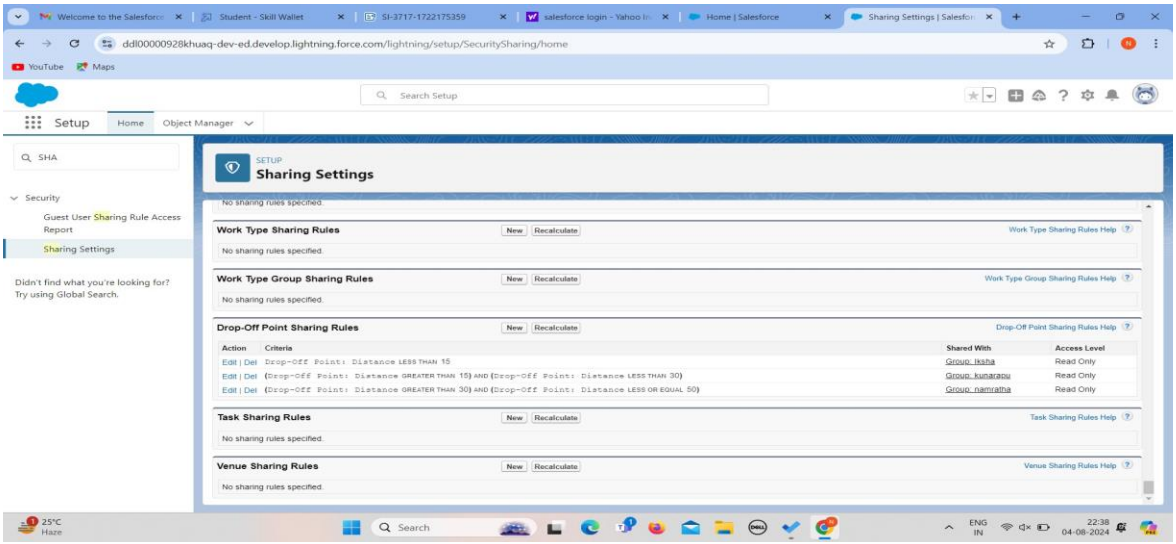
Field : Operator : Value = Distance : greater than : 30

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.

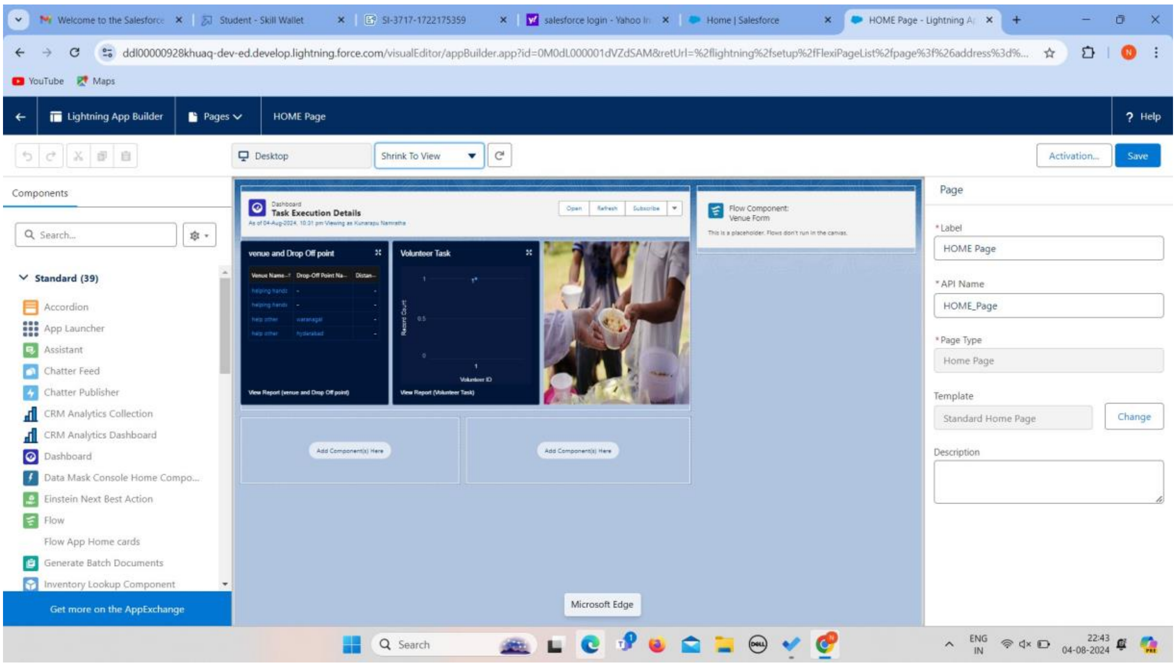


TASK 15:Home Page

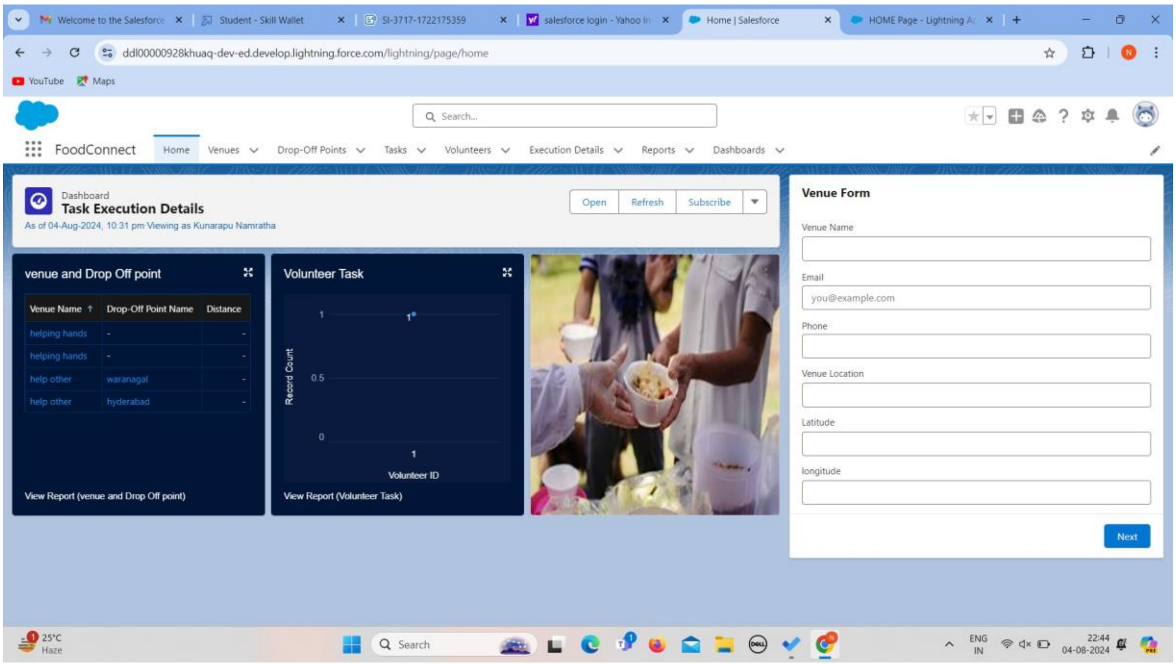
Creation of Home Page

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.