TO SUPPLY LEFTOVER FOOD TO POOR

College Name: VET INSTITUTE OF ARTS AND SCIENCE COLLEGE.

College Code: Brubb

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1.INTRODUCTION

1.1 Project Overview

FOOD CONNECT is a Salesforce-based application is designed to collect leftover food from restaurants, hotels, and event organizers and distribute it to the poor through NGOs and volunteers. The system helps reduce food waste and fight hunger by using Salesforce tools to manage donations, pickups, deliveries, and communication.

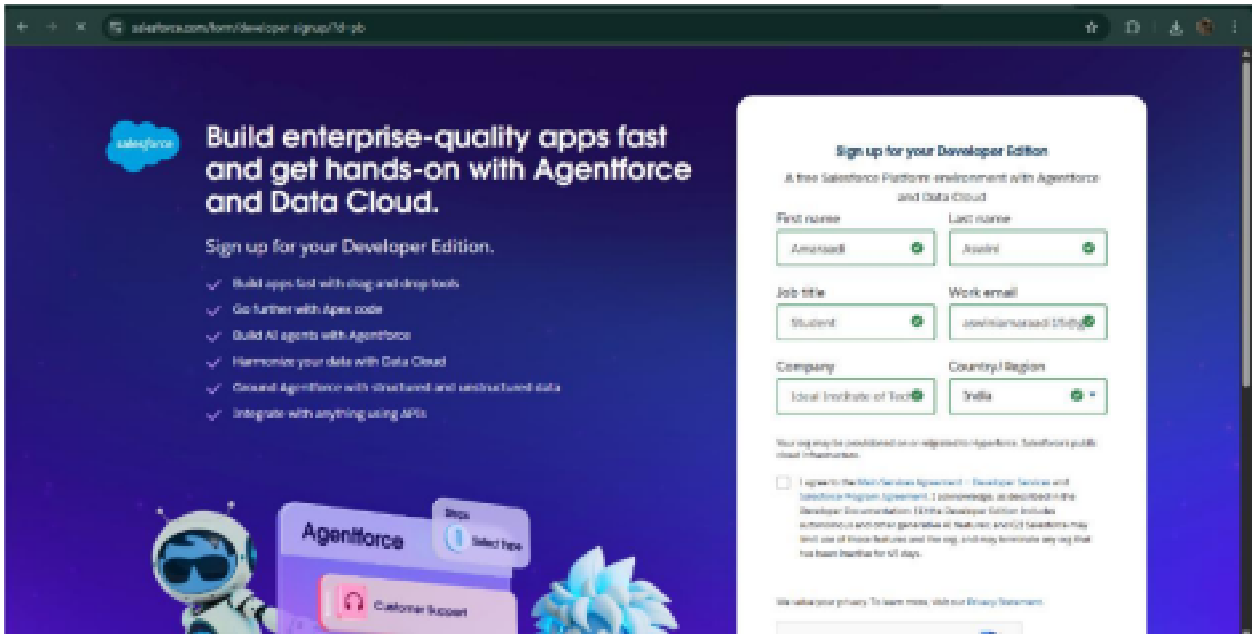
1.2 Purpose

The purpose of this project is to collect extra food from places like restaurants and give it to people in need. The system, built on Salesforce, helps manage donors, volunteers, and deliveries. It saves food from being wasted and helps feed the poor in a quick and organized way.

DEVELOPMENT PHASE

Creating Developer Account:

By using this URL - **https://www.salesforce.com/form/developer-signup/?d=pb**

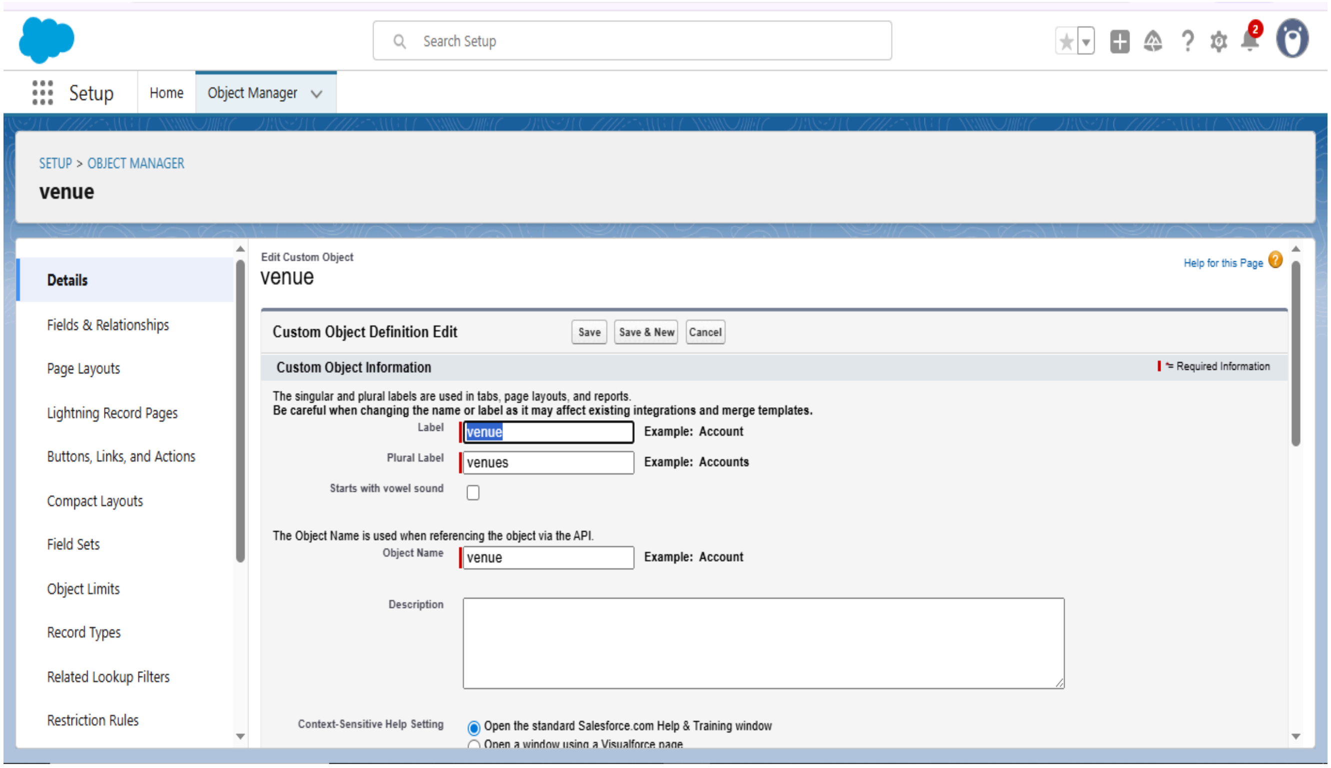


Create an Objects

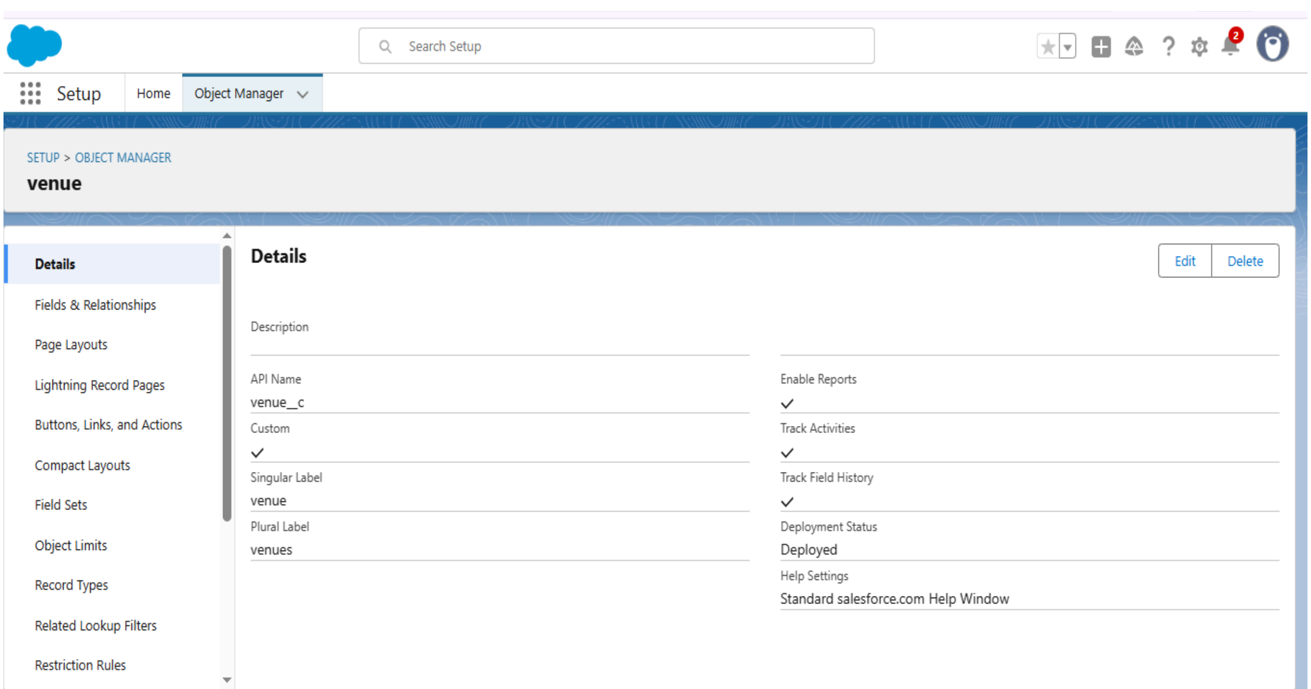
To create an object:

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.

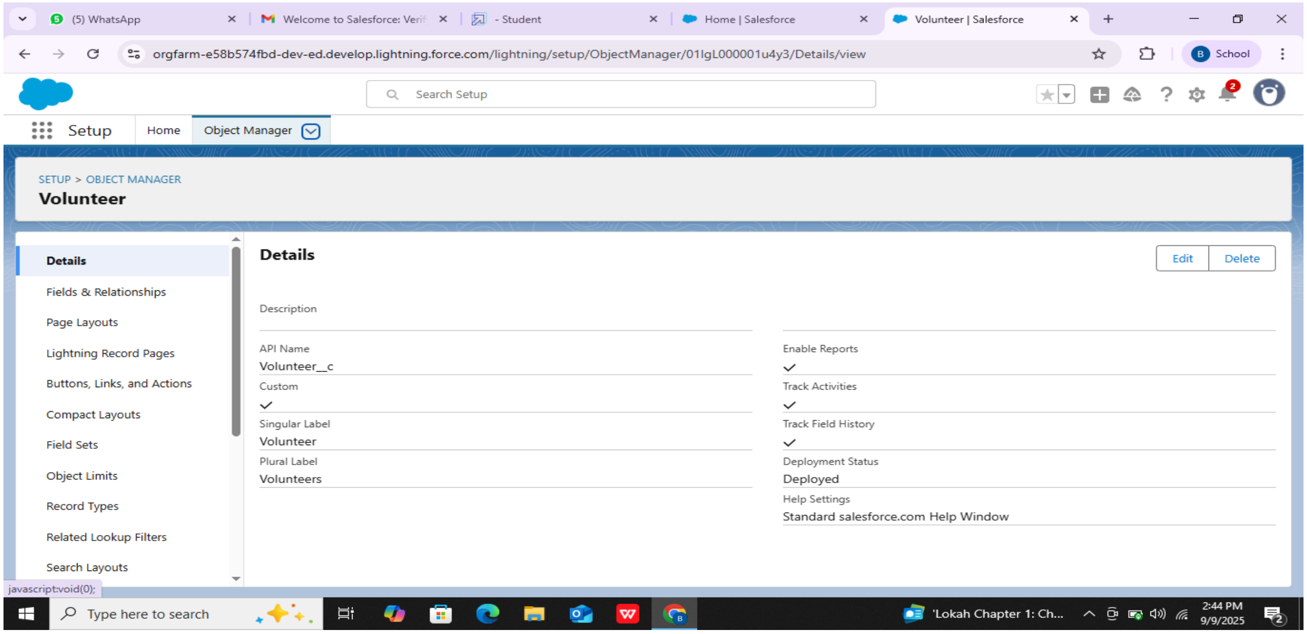
- Created objects:Venue,Drop-Off Point,Task,Volunteer, Execution Detail.



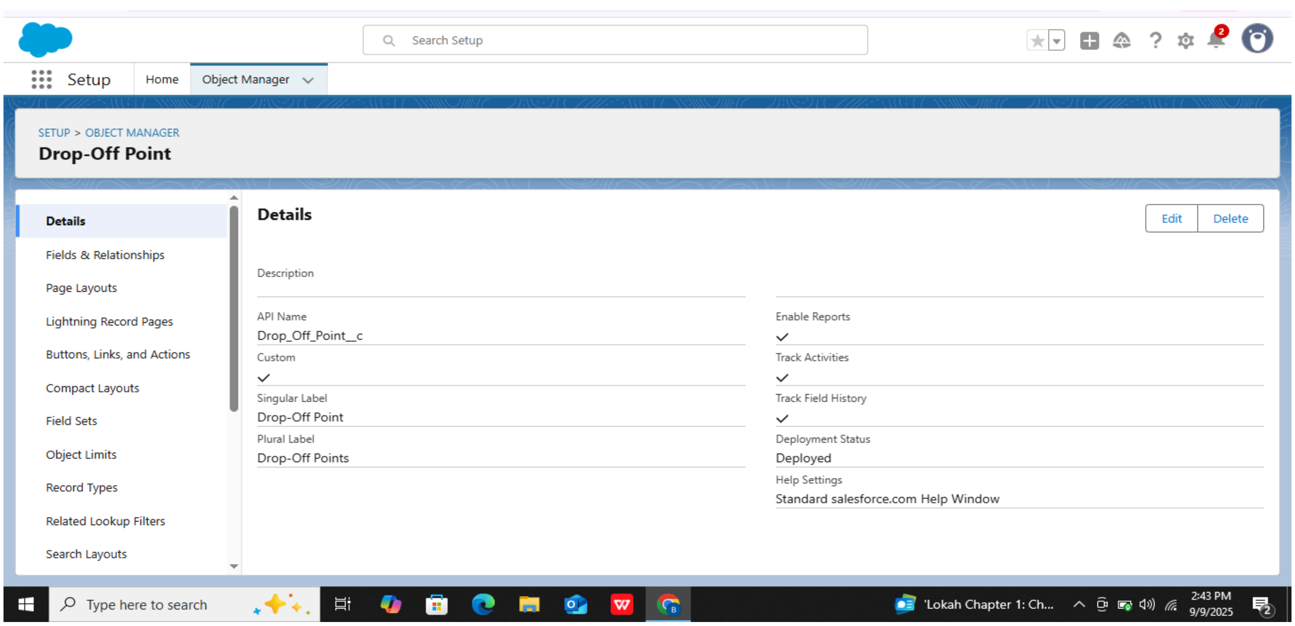
OBJECT:Venue.



OBJECT:Volunteer.



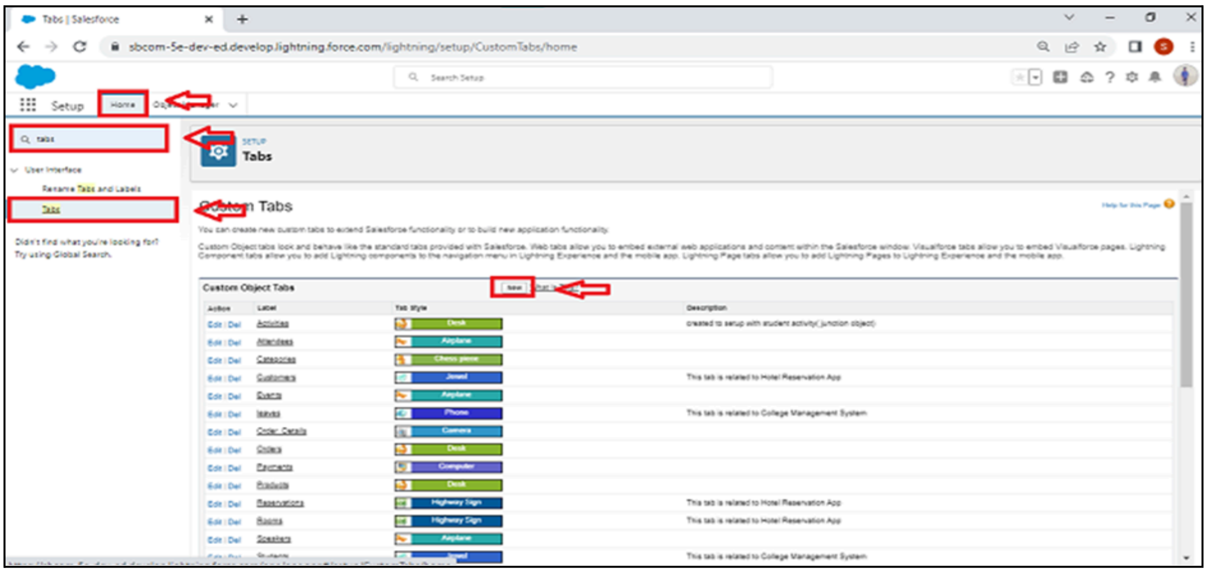
OBJECT:Drop off Point.



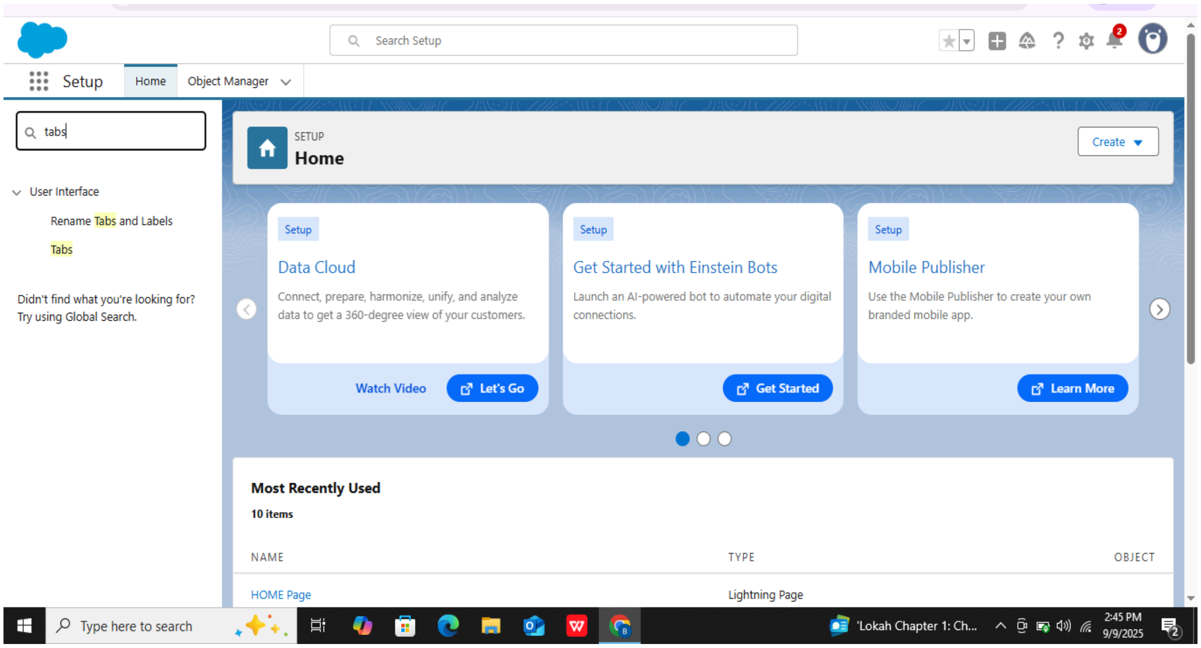
Tabs:

To create a Tab:(Venue)

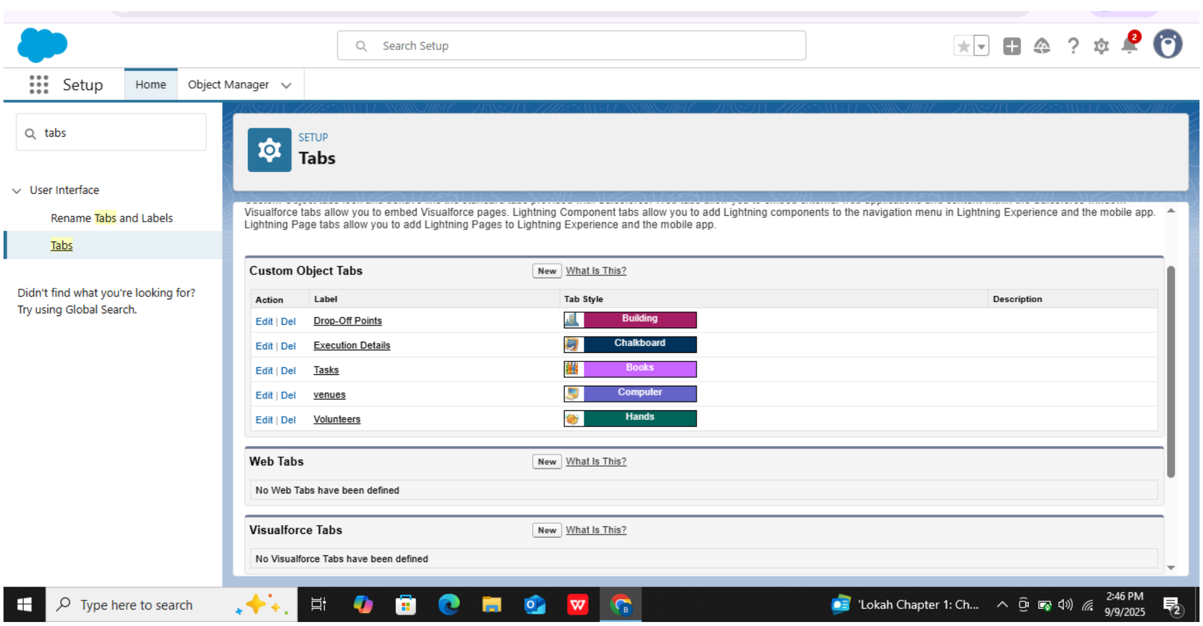
1. Go to setup page >> type Tabs in Quick Find bar >> click on tabs >> New (under custom object tab)



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



1. Now create the Tabs for the remaining Objects, they are “Drop-Off Point, Task, Volunteer, Execution Details”.



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.

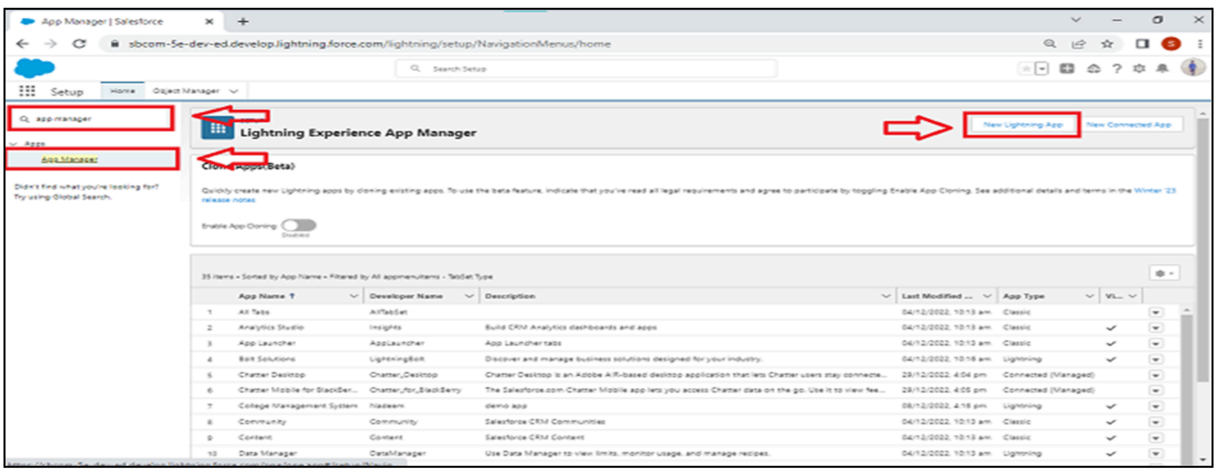
2. Fill the app name in app details and branding as follow

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.



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

App Name : FoodConnect

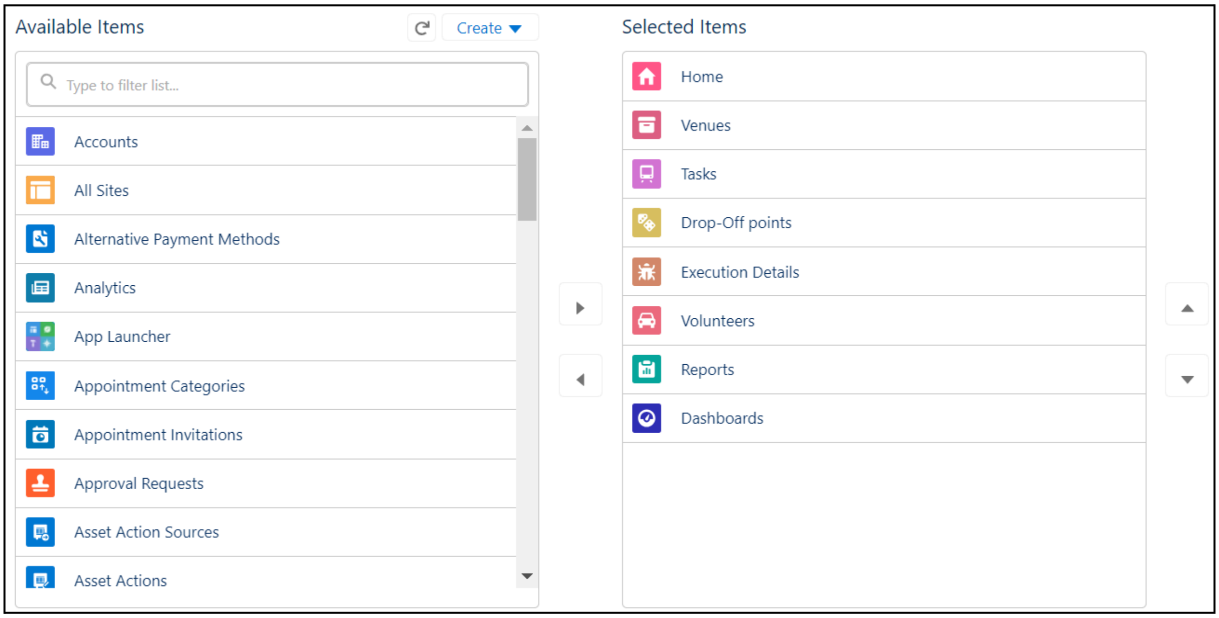
Developer Name : This will auto populated

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.

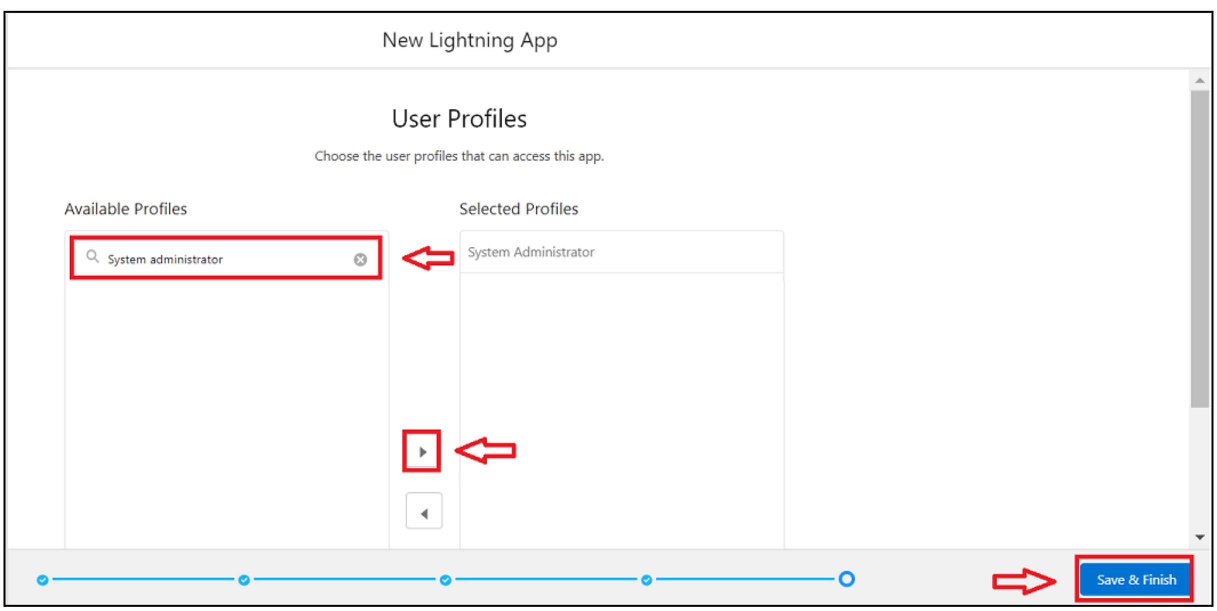
4. (Utility Items) keep it as default >> Next.

5. To Add Navigation Items:

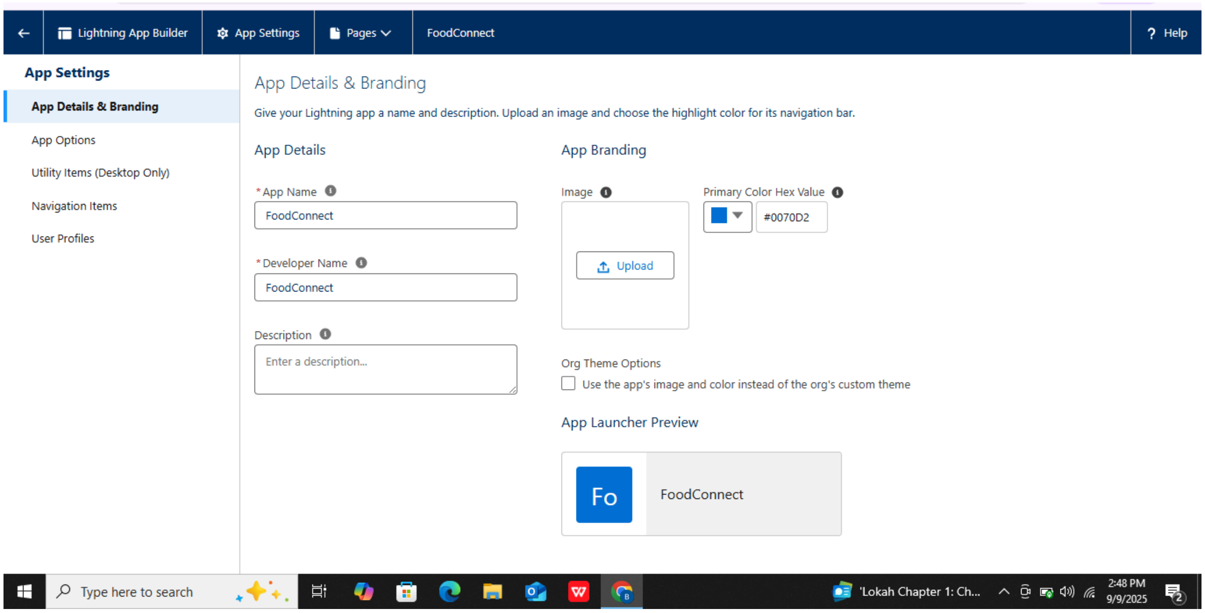


Search for the item in the (Home, Venue, Drop-Off Point, Task, Volunteer, Execution Details, Reports) from the search bar and move it using the arrow button >> Next >> Next.

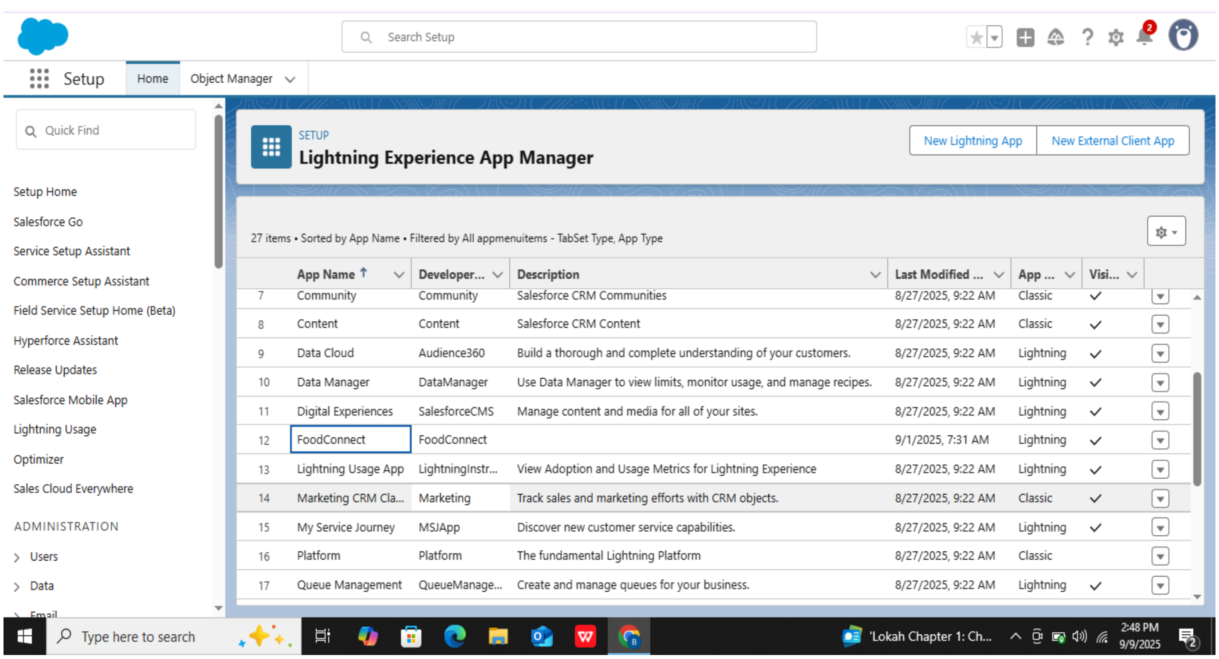
6. To Add User Profiles:



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



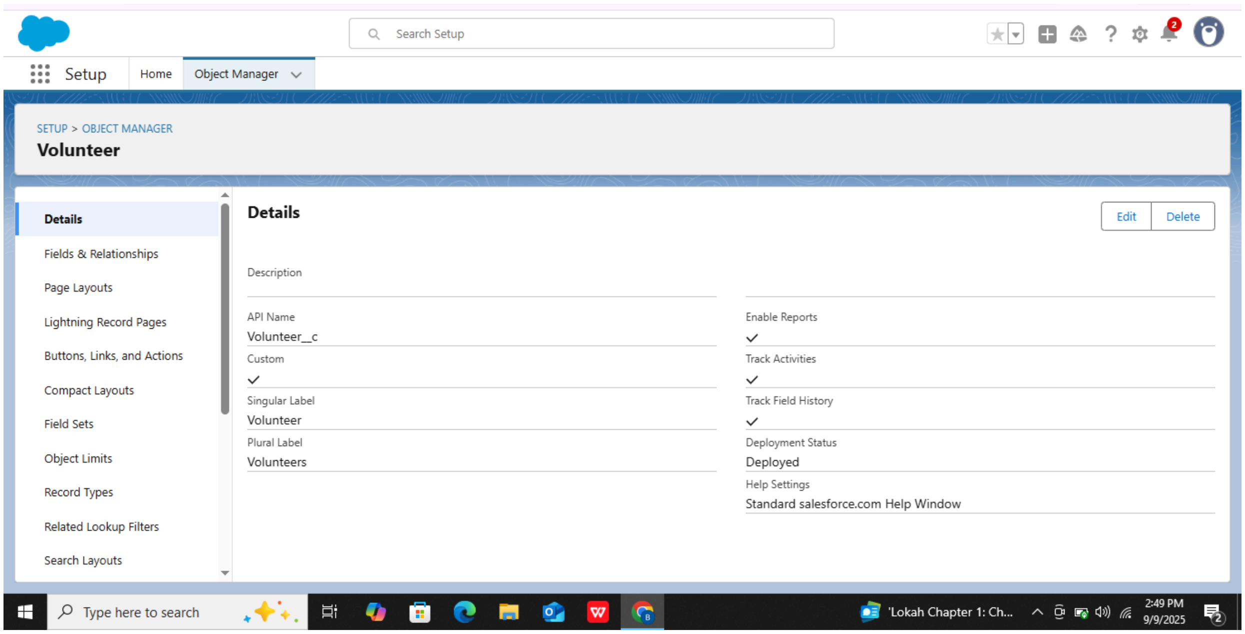
VERIFIYING : FOOD CONNECT APP



Fields:

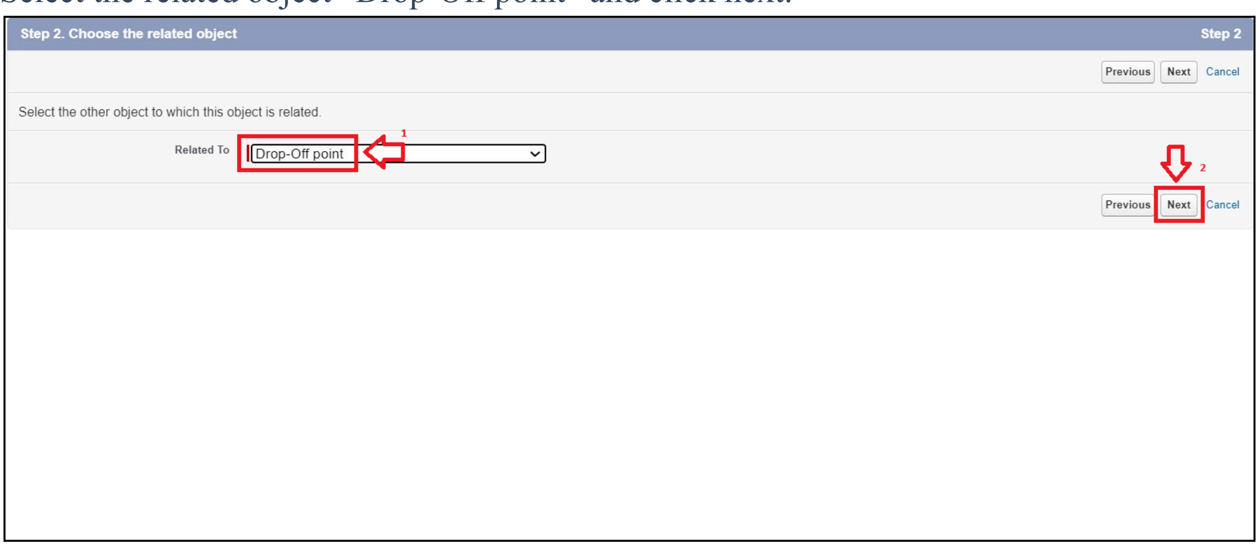
Creation of Lookup Relationship Field on Volunteer Object :

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

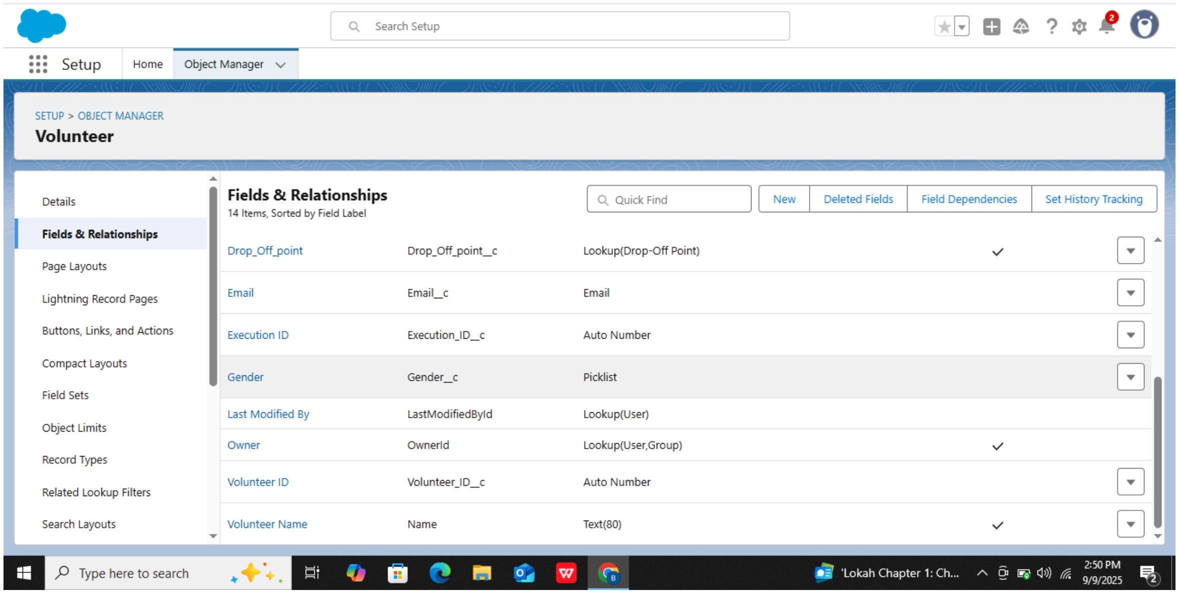


Now click on "Fields & Relationships" >> New

2. Select Master Detail relationship
3. 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.



8. Select Master Detail relationship
9. Select the related object "Volunteer" and click next.
10. Field Name : Volunteer
11. Field label : Auto generated
12. Next >> Next >> Save.

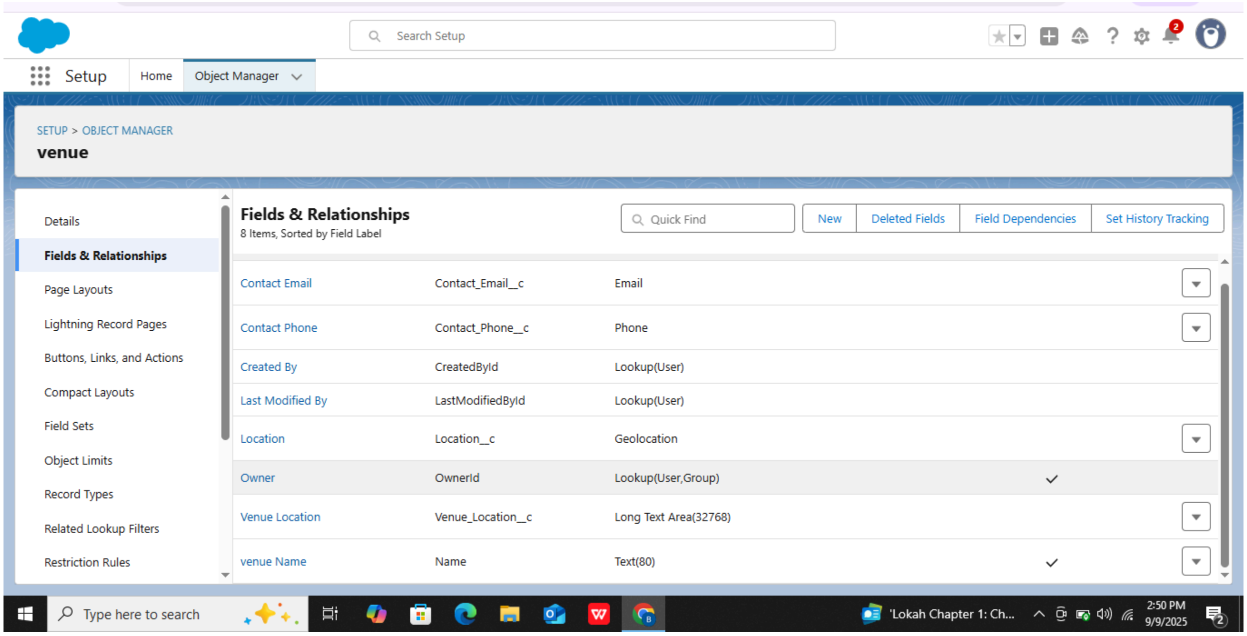
Creation of Master Detail Relationship Field on Execution Details Object :

15. Select Master Detail relationship
16. Select the related object "Task" and click next.
17. Field Name : Task
18. Field label : Auto generated
19. Next >> Next >> Save.

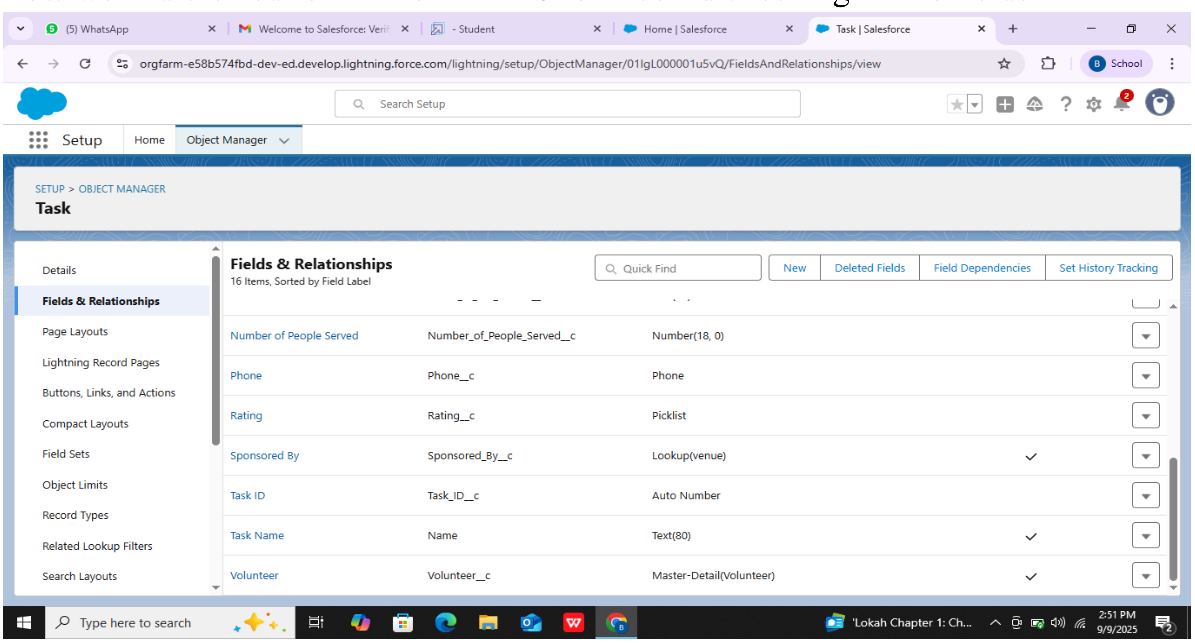
Creation of Lookup Relationship Field on Drop-Off Point Object :

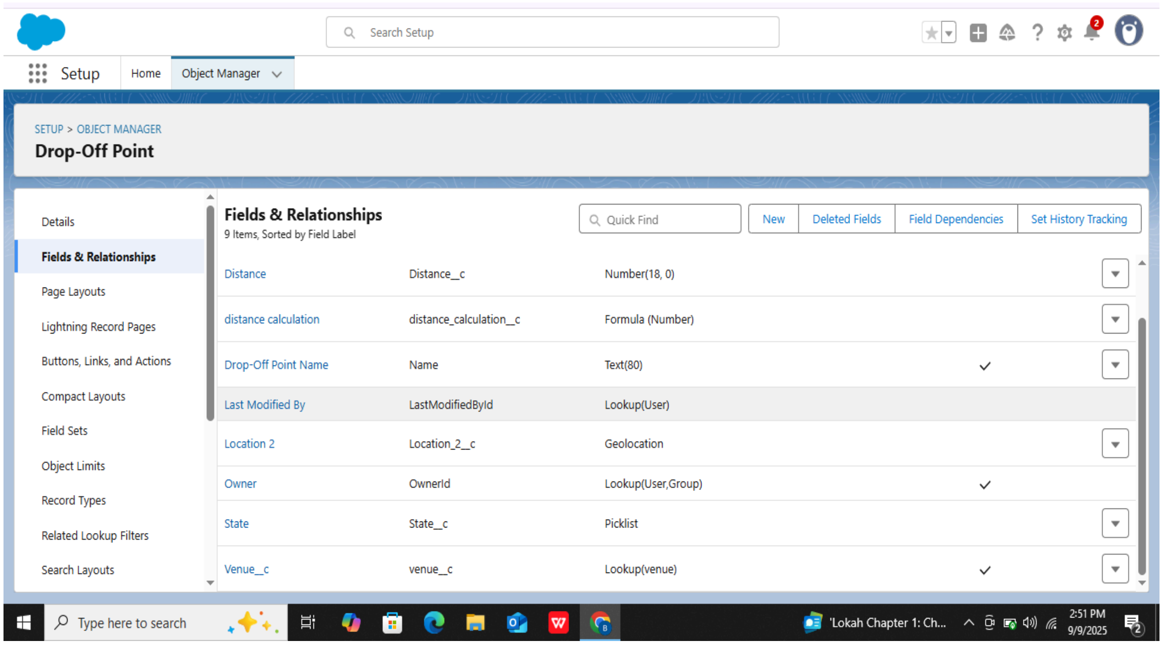
22. Select Lookup relationship
23. Select the related object "Venue" and click next.
24. Field Name : Venue
25. Field label : Venue__c
26. Next >> Next >> Save.
27. Creation of Lookup Relationship Field on Task Object :
29. Now click on "Fields & Relationships" >> New
30. Select Lookup relationship
31. Select the related object "Venue" and click next.
32. Field Name : Sponsored By
33. Field label : Auto generated
34. Next >> Next >> Save.
36. Now click on "Fields & Relationships" >> New
37. Select Lookup relationship

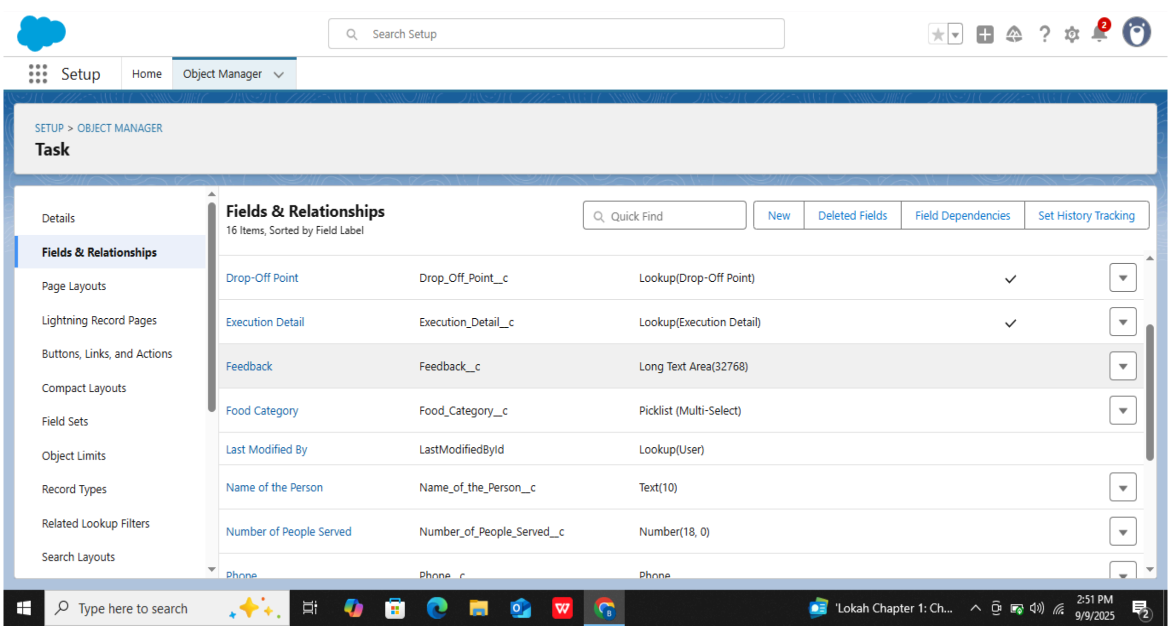
38. Select the related object “Drop-Off point” and click next.
39. Field Name : Drop-Off point
40. Field label : Auto generated
41. Next >> Next >> Save.

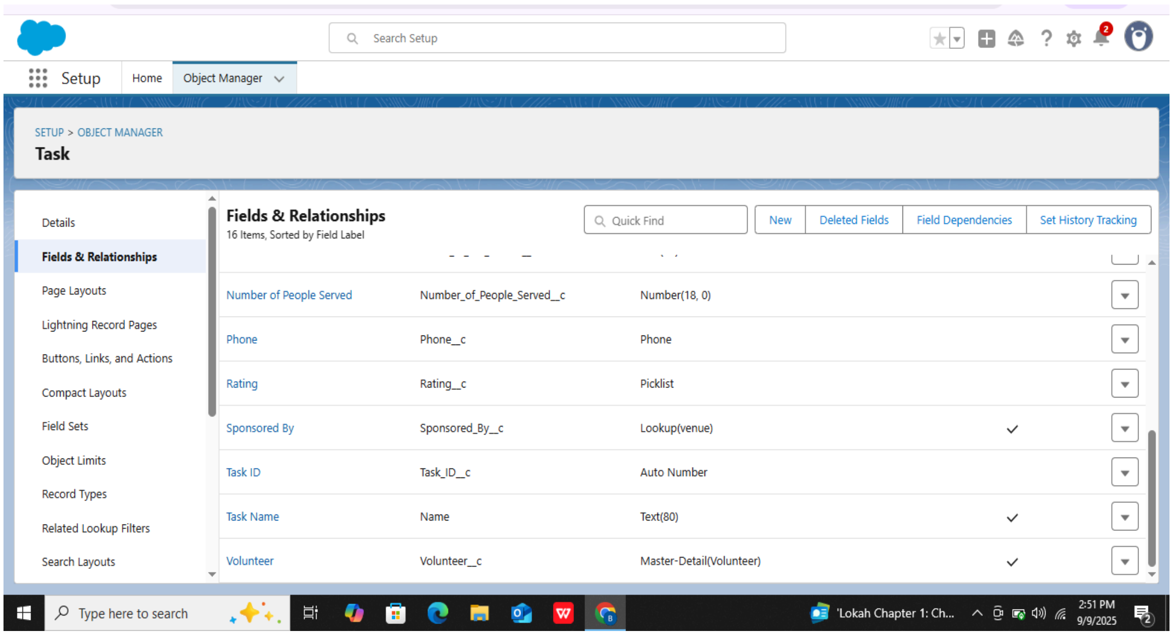


Now we had created for all the FIELDS for tabsand checking all the fields




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
Fields & Relationships
9 Items, Sorted by Field Label
Quick Find
New
Deleted Fields
Field Dependencies
Set History Tracking
Distance Distance__c Number(18, 0)
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)
Type here to search
'Lokah Chapter 1: Ch...
2:51 PM
9/9/2025


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
Fields & Relationships
16 Items, Sorted by Field Label
Quick Find
New
Deleted Fields
Field Dependencies
Set History Tracking
Drop-Off Point Drop_Off_Point__c Lookup(Drop-Off Point)
Execution Detail Execution_Detail__c Lookup(Execution Detail)
Feedback Feedback__c Long Text Area(32768)
Food Category Food_Category__c Picklist (Multi-Select)
Last Modified By LastModifiedById Lookup(User)
Name of the Person Name_of_the_Person__c Text(10)
Number of People Served Number_of_People_Served__c Number(18, 0)
Type here to search
'Lokah Chapter 1: Ch...
2:51 PM
9/9/2025


Search Setup
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Task
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Fields & Relationships
Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
Compact Layouts
Field Sets
Object Limits
Record Types
Related Lookup Filters
Search Layouts
Fields & Relationships
16 Items, Sorted by Field Label
Quick Find
New
Deleted Fields
Field Dependencies
Set History Tracking
Number of People Served | Number_of_People_Served__c | Number(18, 0)
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) | ✓
Volunteer | Volunteer__c | Master-Detail(Volunteer) | ✓
Type here to search
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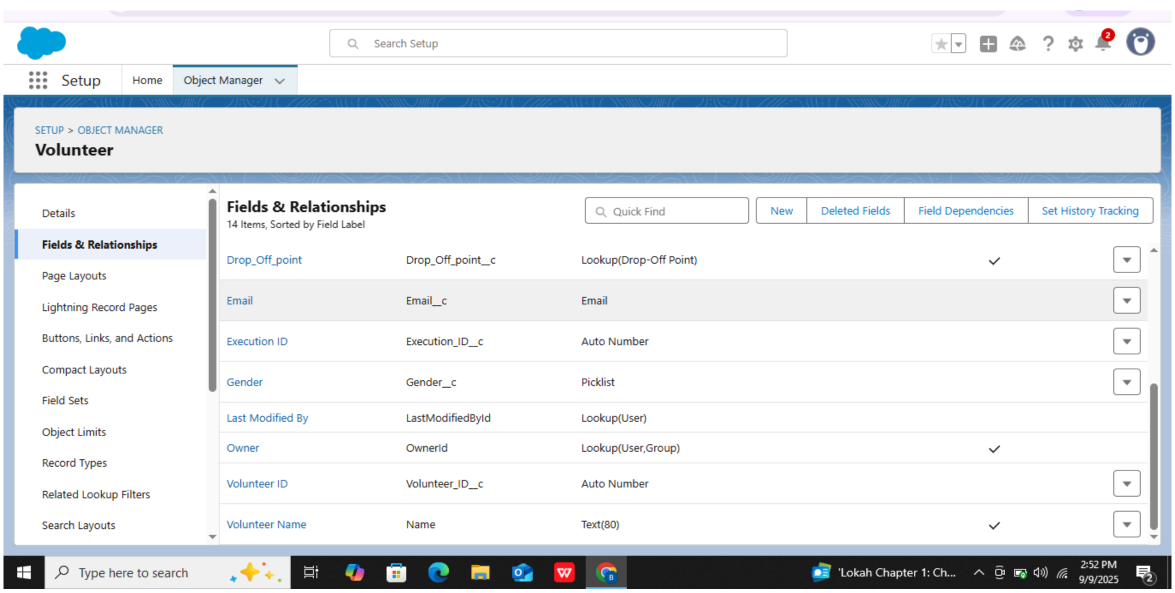
Search Setup
Setup
Home
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SETUP > OBJECT MANAGER
Volunteer
Details
Fields & Relationships
Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
Compact Layouts
Field Sets
Object Limits
Record Types
Related Lookup Filters
Search Layouts
Fields & Relationships
14 Items, Sorted by Field Label
Quick Find
New
Deleted Fields
Field Dependencies
Set History Tracking
Drop_Off_point | Drop_Off_point__c | Lookup(Drop-Off Point) | ✓
Email | Email__c | Email
Execution ID | Execution_ID__c | Auto Number
Gender | Gender__c | Picklist
Last Modified By | LastModifiedById | Lookup(User)
Owner | OwnerId | Lookup(User,Group) | ✓
Volunteer ID | Volunteer_ID__c | Auto Number
Volunteer Name | Name | Text(80) | ✓
Type here to search
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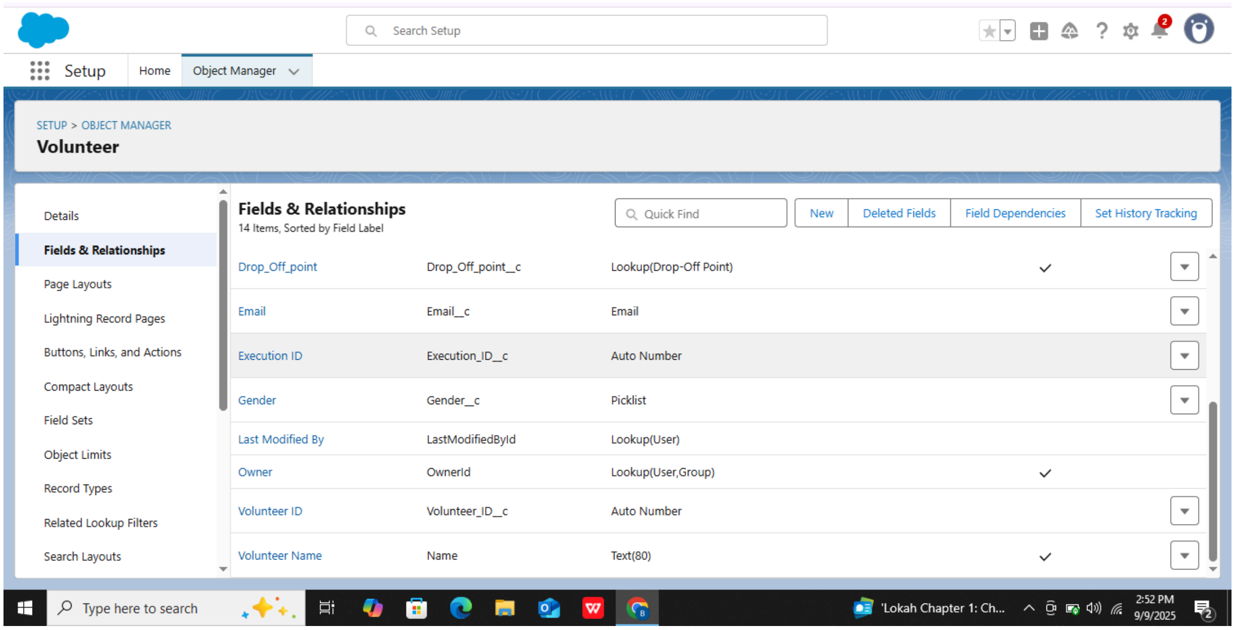
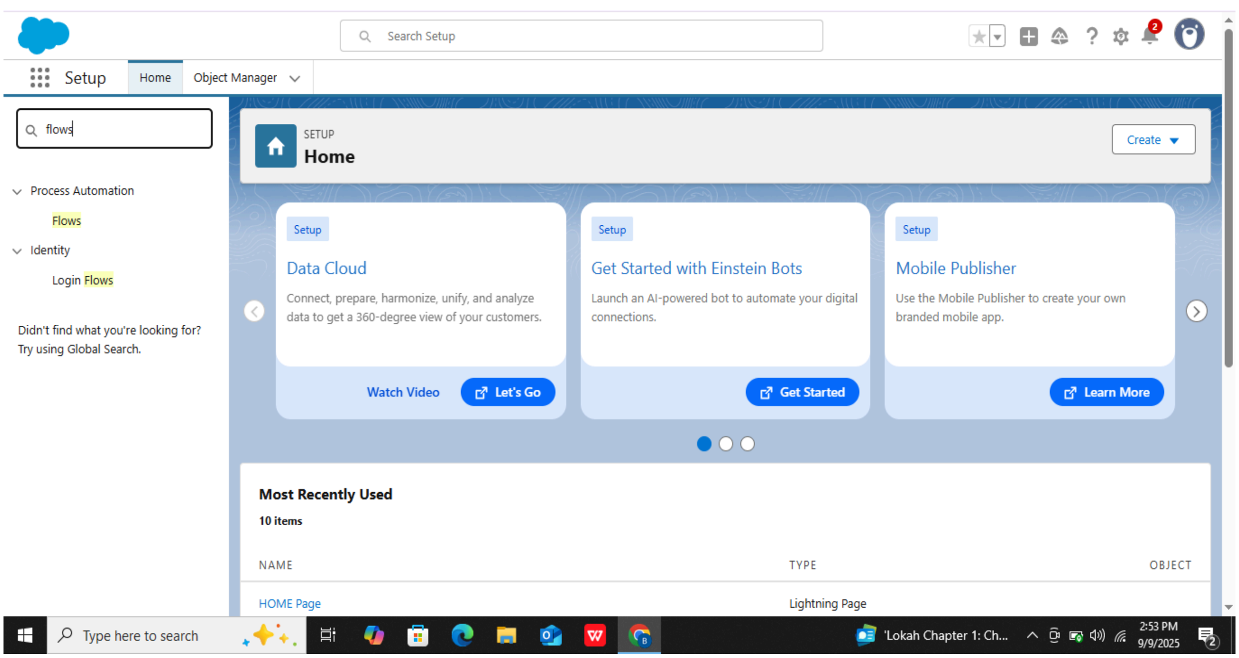
2:52 PM
9/9/2025

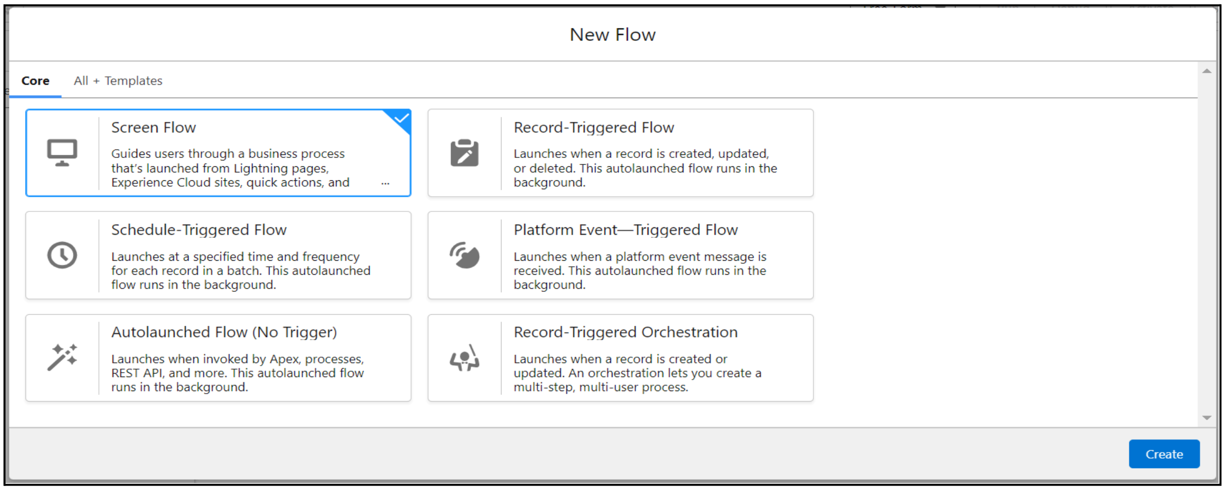


FLOWS:



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

Select the Screen flow. Click on create.



3. Click on the '+' icon in between 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:

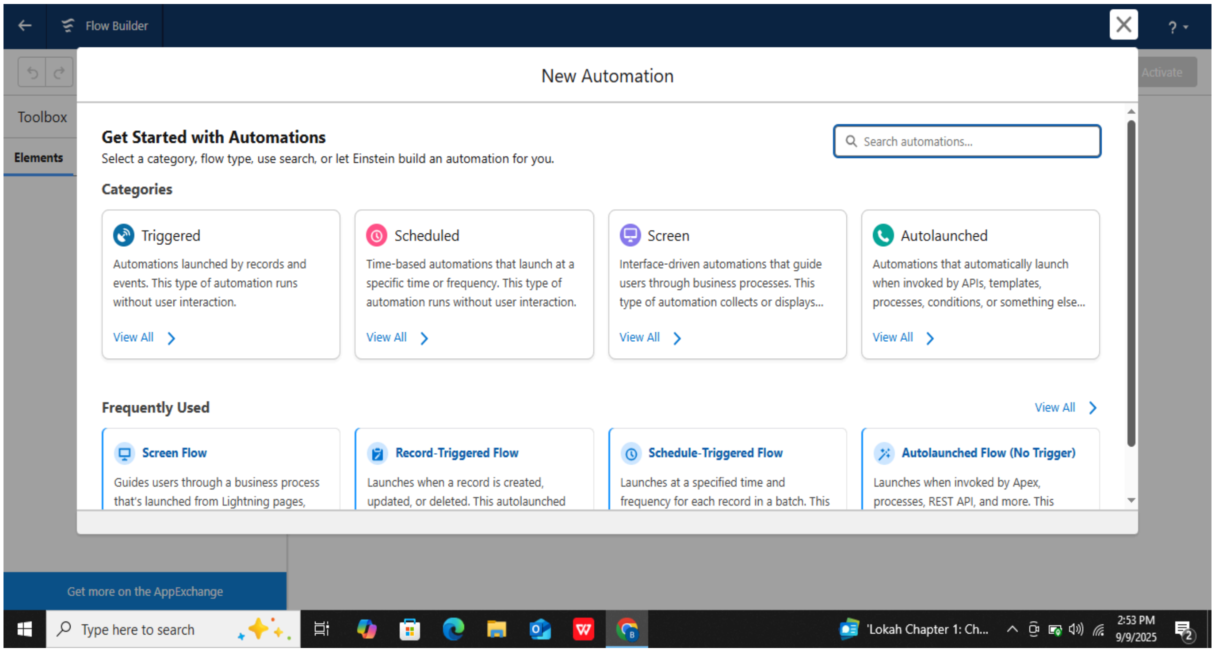
   Label : Latitude

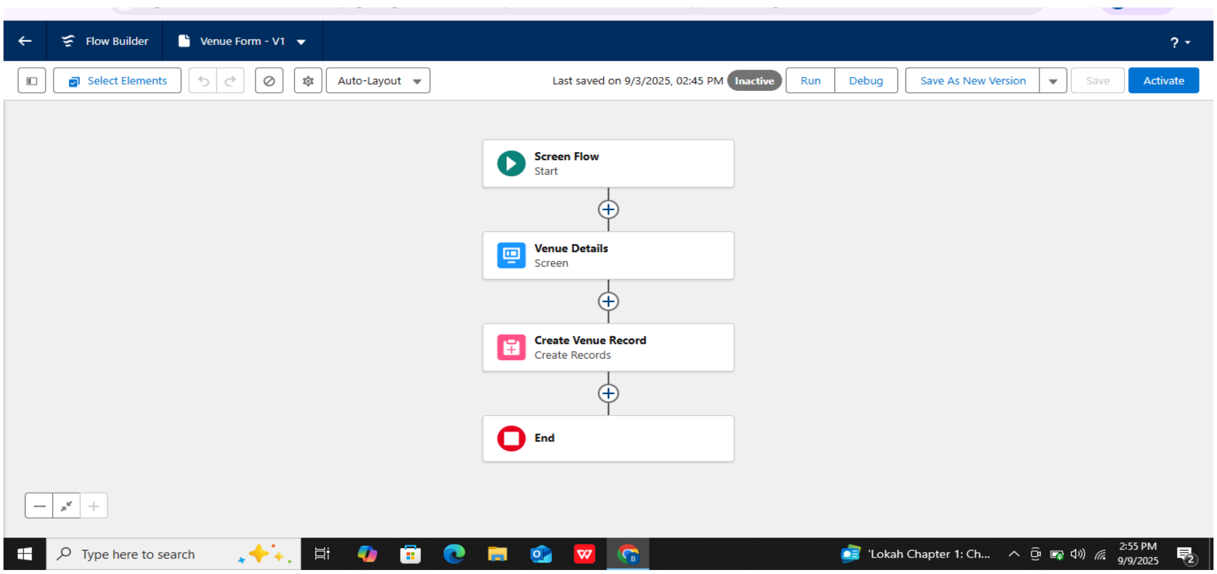
   API Name : Latitude
10. Click on Number Component and name it as:

    Label : longitude

    API Name : longitude

11. Next click on Done.

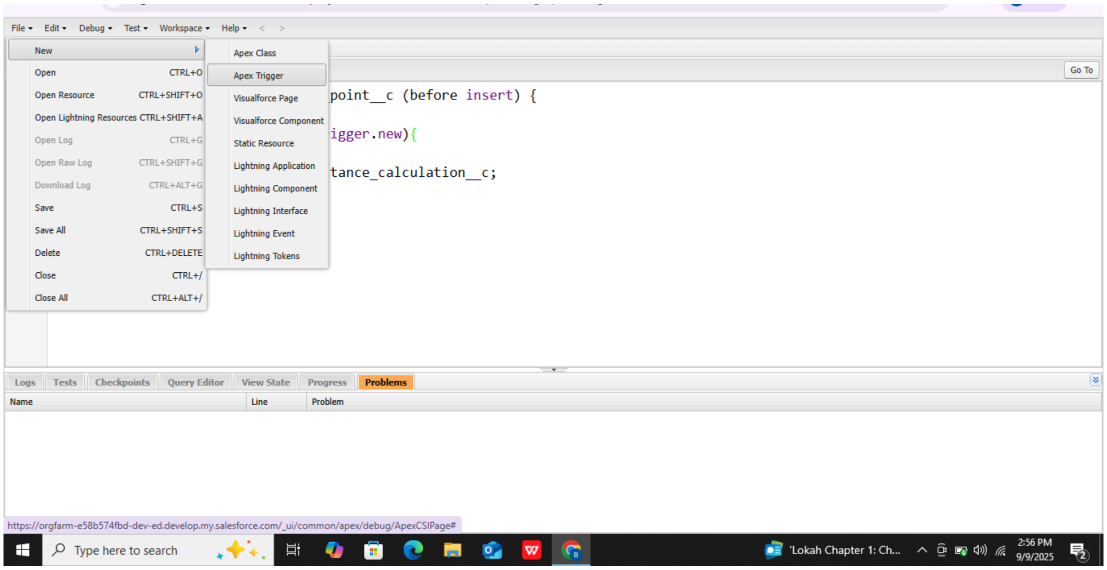


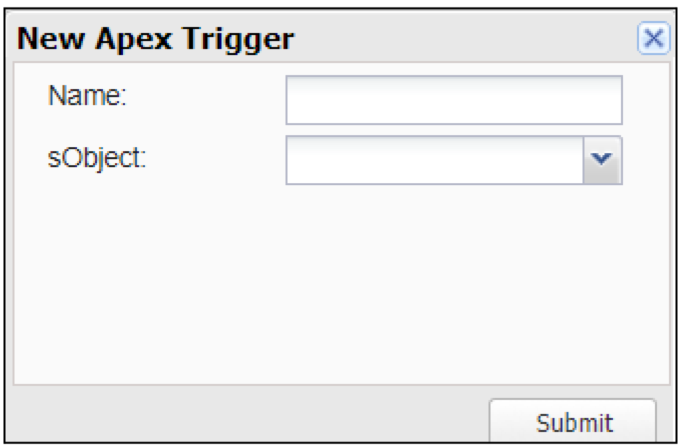


Trigger:

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.



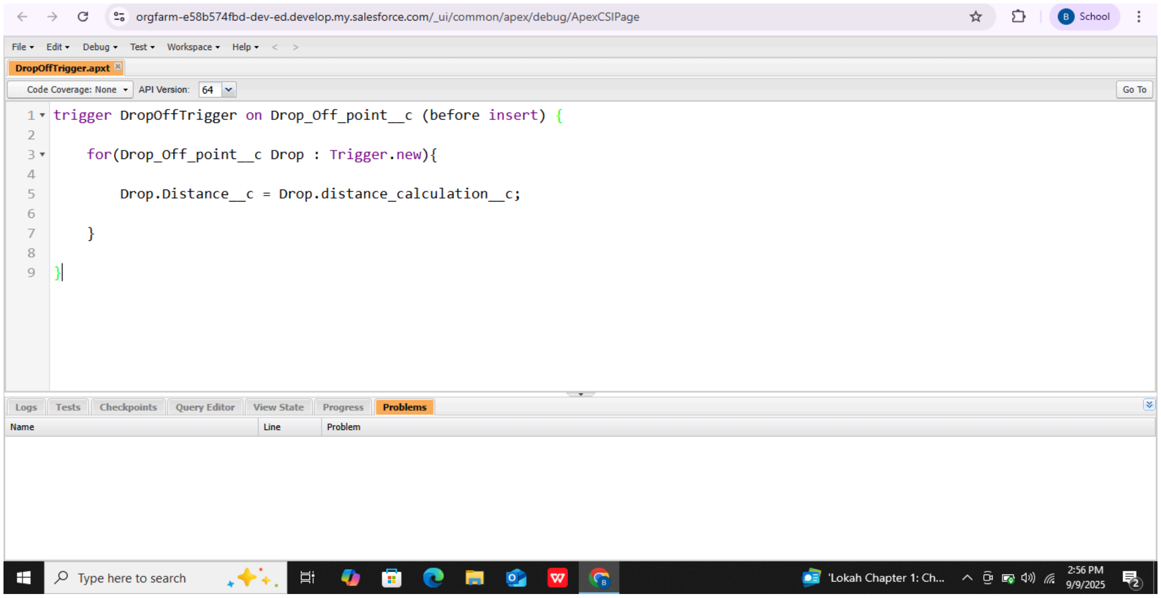


5. Enter Name : DropOffTrigger
   sObject: Drop-Off Point
6. Click on Submit.

Trigger Code:

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;
   }
}
```

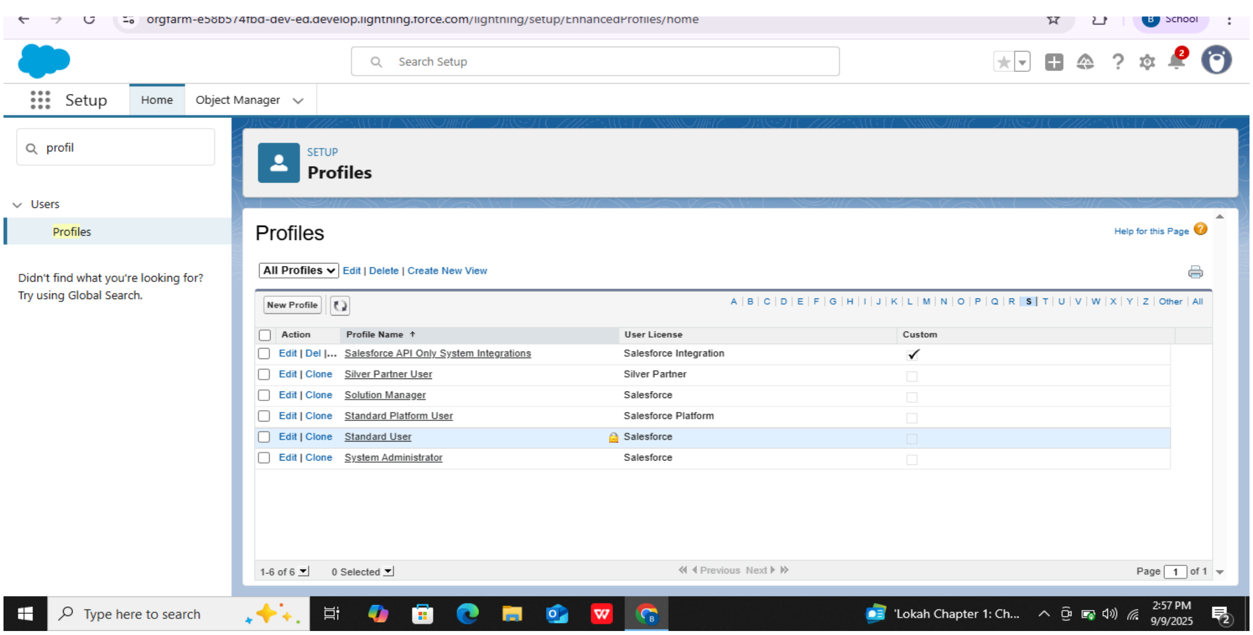


Profiles:

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



Creation of Users:

users>> New user

First Name : Iksha Foundation

Last Name : Iksha_Foundation

Alias : iiksh

Email : Give Your Email

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

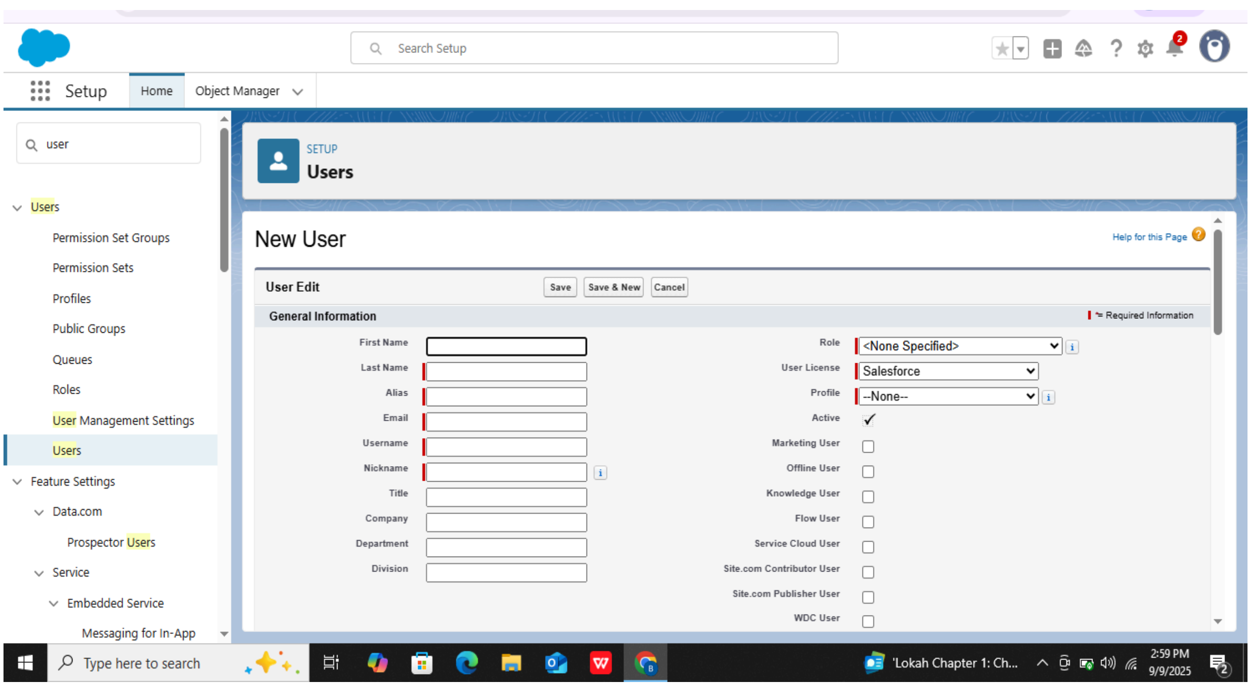
Nickname : Auto Populated

User License : Salesforce Platform

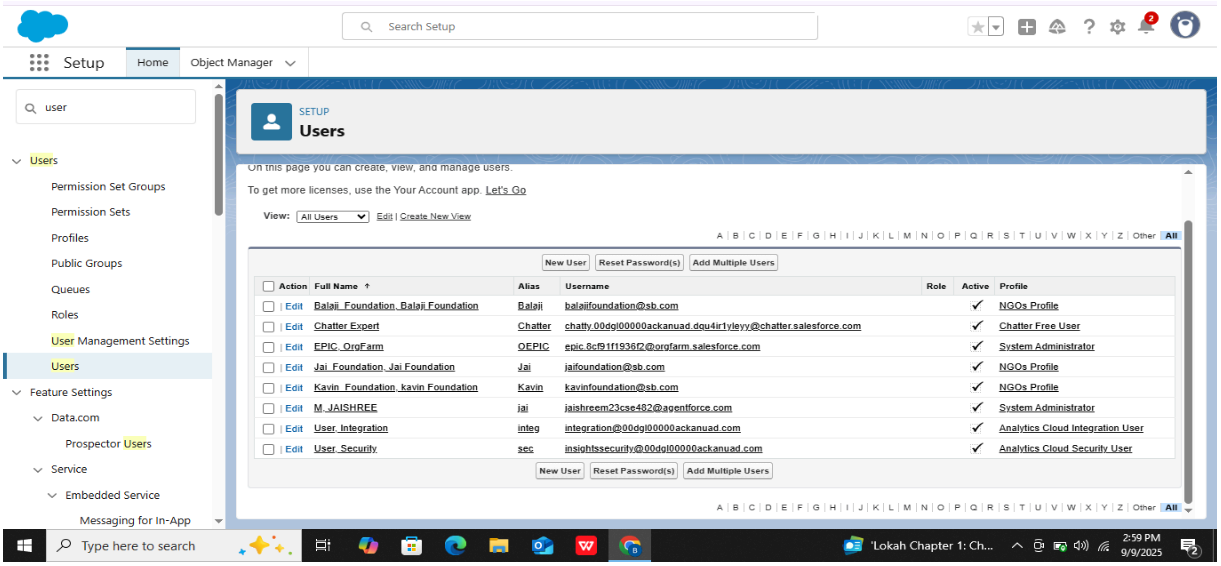
Profile : NGOs Profile

Active : Check

a. Click on Save



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



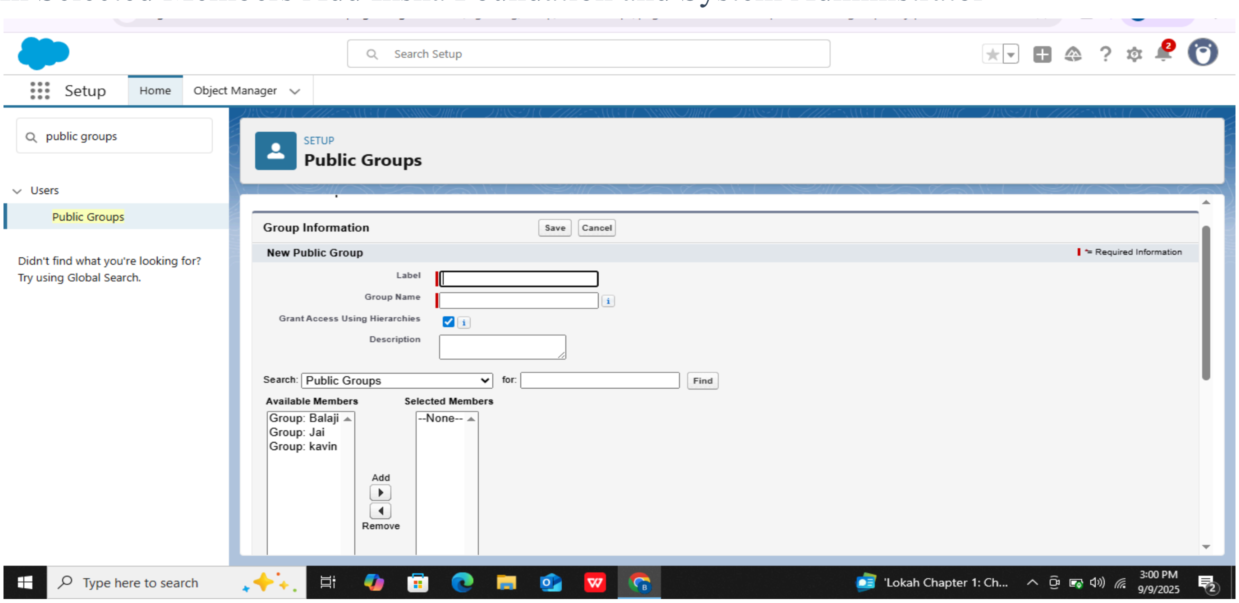
Public Groups:

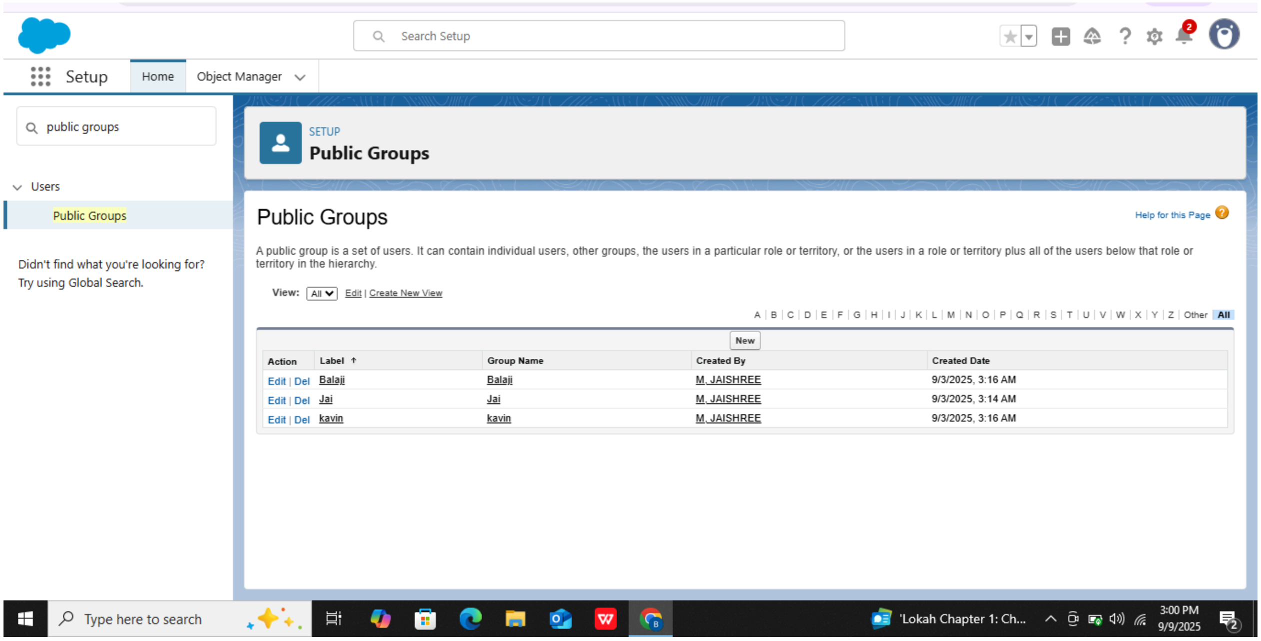
1. Public Groups in Quick Find bar >> click on Public Groups >> click on New.
2. Under Group Information:

   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





Report Types:

1. 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

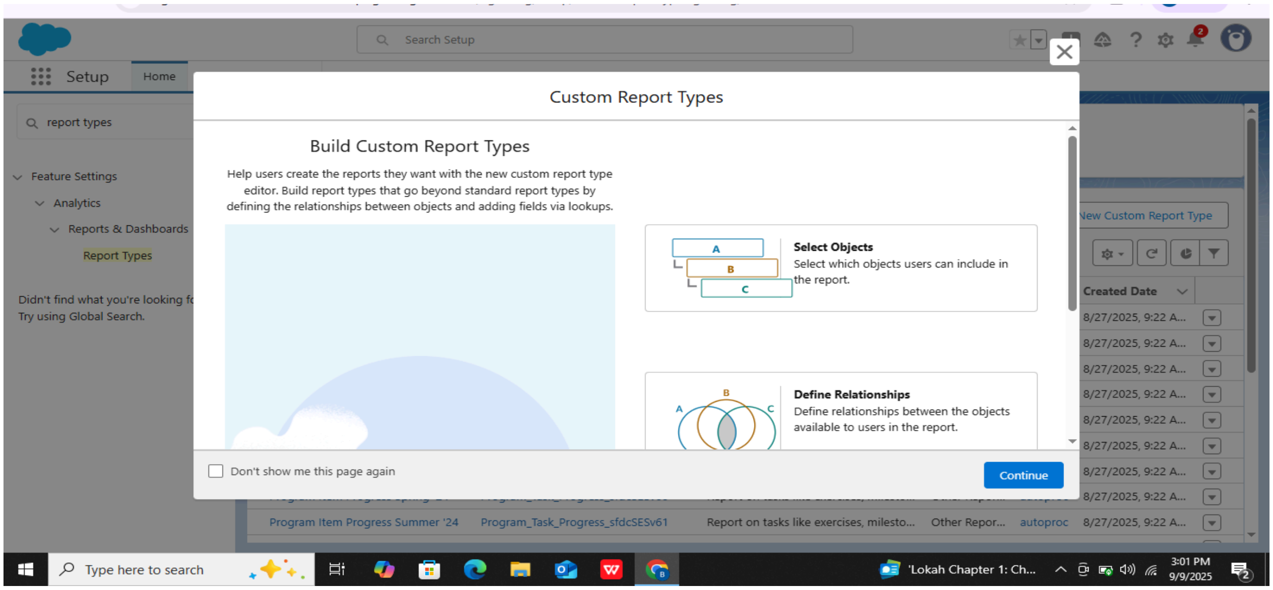
   Report Type Name : Venue_with_DropOff_with_Volunteer

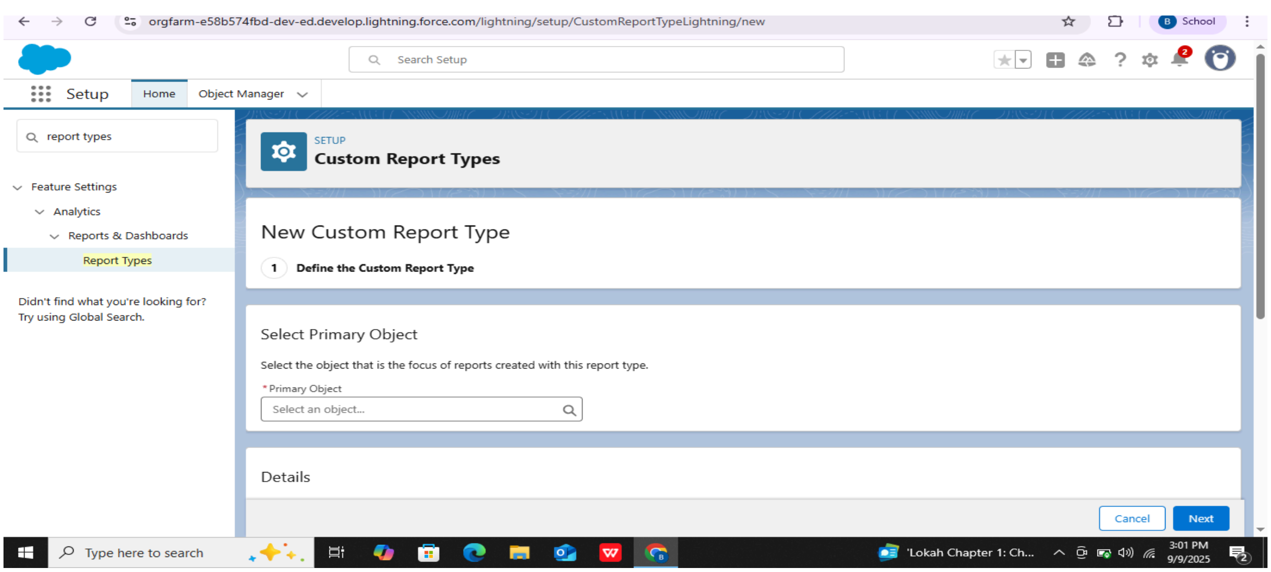
   Description : Venue with DropOff with Volunteer

   Store in Category : Select Other Reports

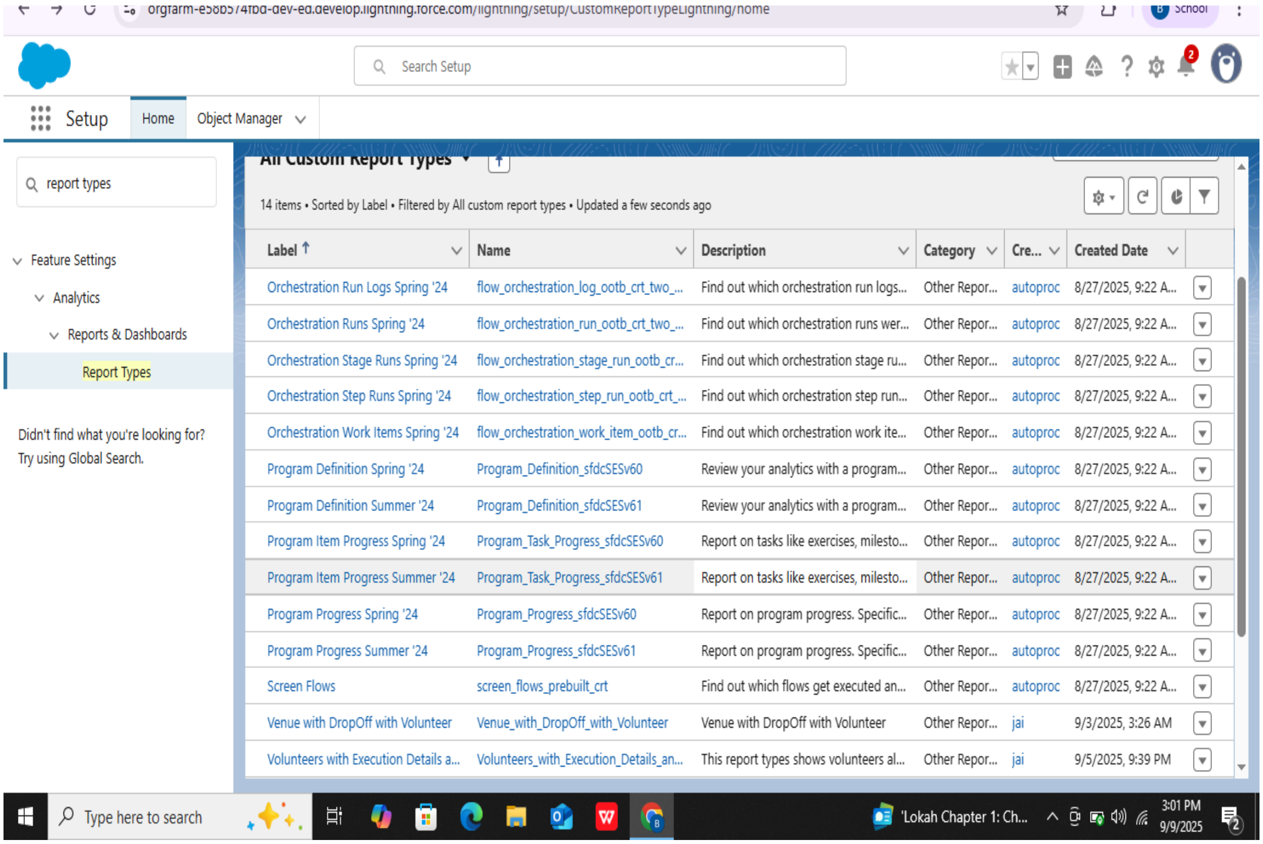
   Deployment Status : Deployed
3. Click on Next
4. Near Click to relate another Object Select Drop-Off Points.
5. And also select "A" records may or may not have related "B" records.
6. Now again Near Click to relate another Object Select Volunteers.

7. Now click on Save.





VERIFIYING THE RECORD TYPES WHICH HAD BEEN CREATED BY US.



Reports:

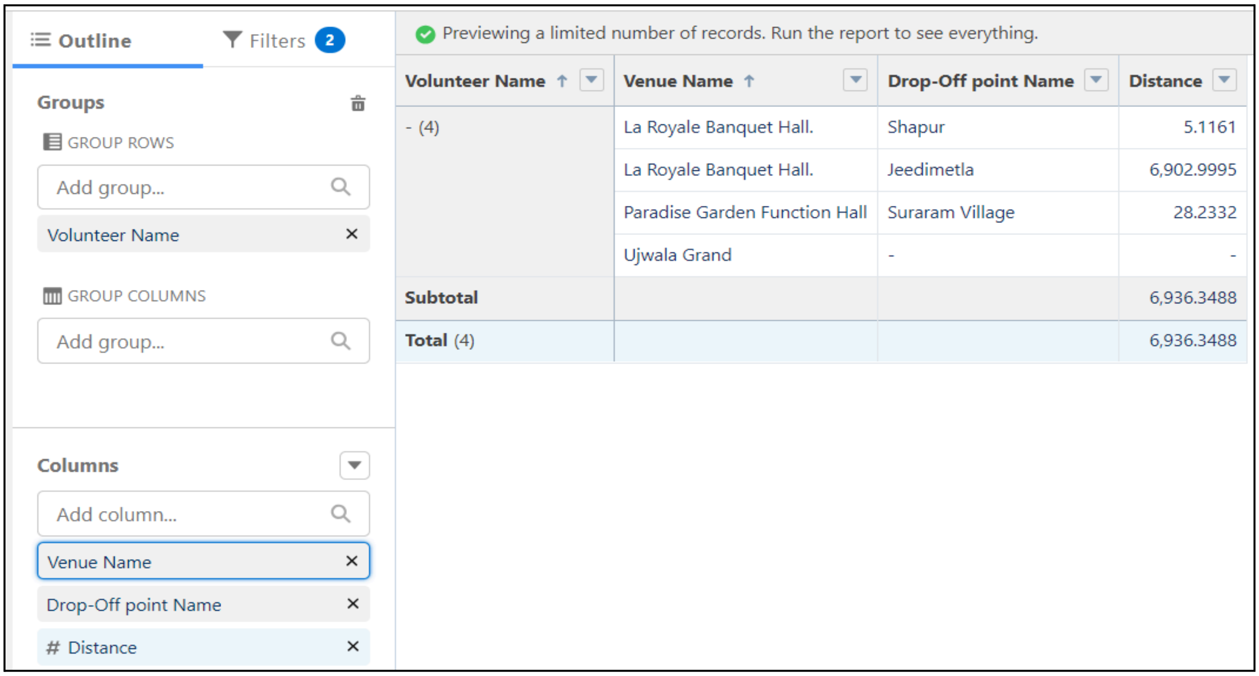
Go to the app(FoodConnect) >> click on the reports tab
Click on New Folder.

Folder Label : Custom Reports

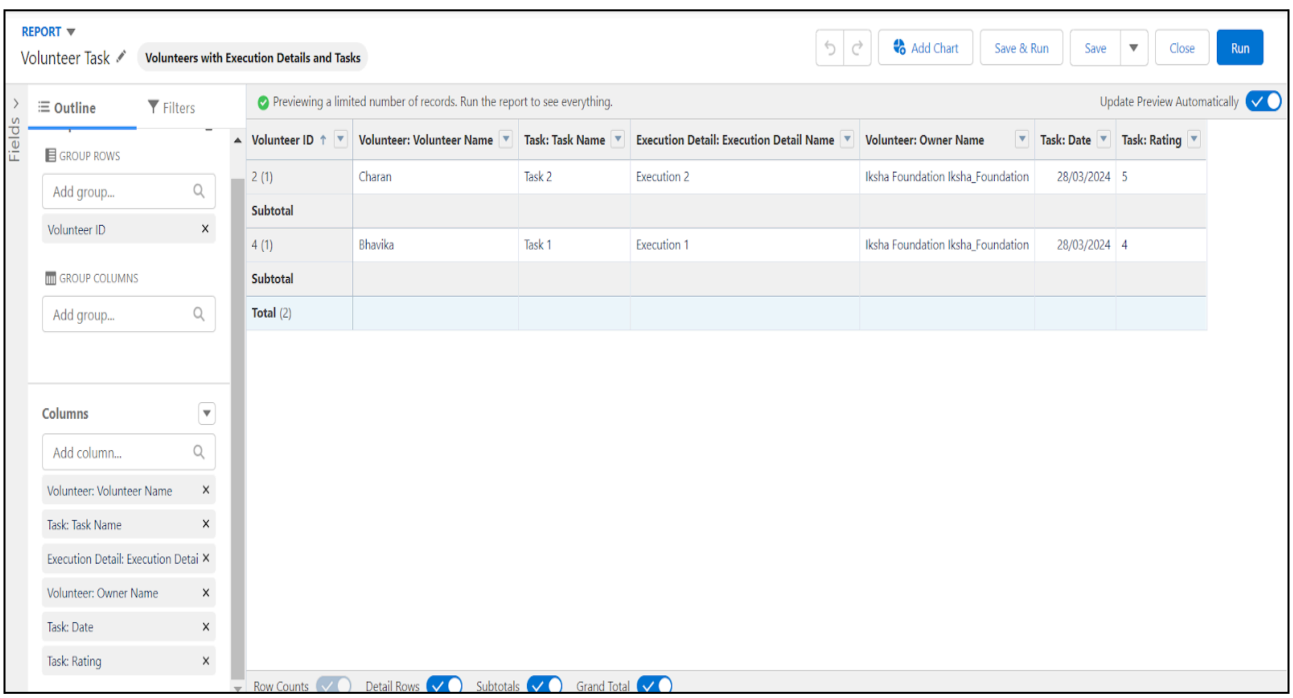
Folder Unique Name : CustomReports

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.

a. Now click on Save & Run.
b. Give Label as :
c. Report Name : venue and Drop Off point
d. Report Unique Name : Auto Populated
e. Click on Select Folder and select Custom Report, then click on Save.



Click on Custom Reports Folder and click on New Report
Select Report Type : Volunteers with Execution Details and Tasks.
Then click on Start Report.
In GROUP ROWS : Volunteer ID
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

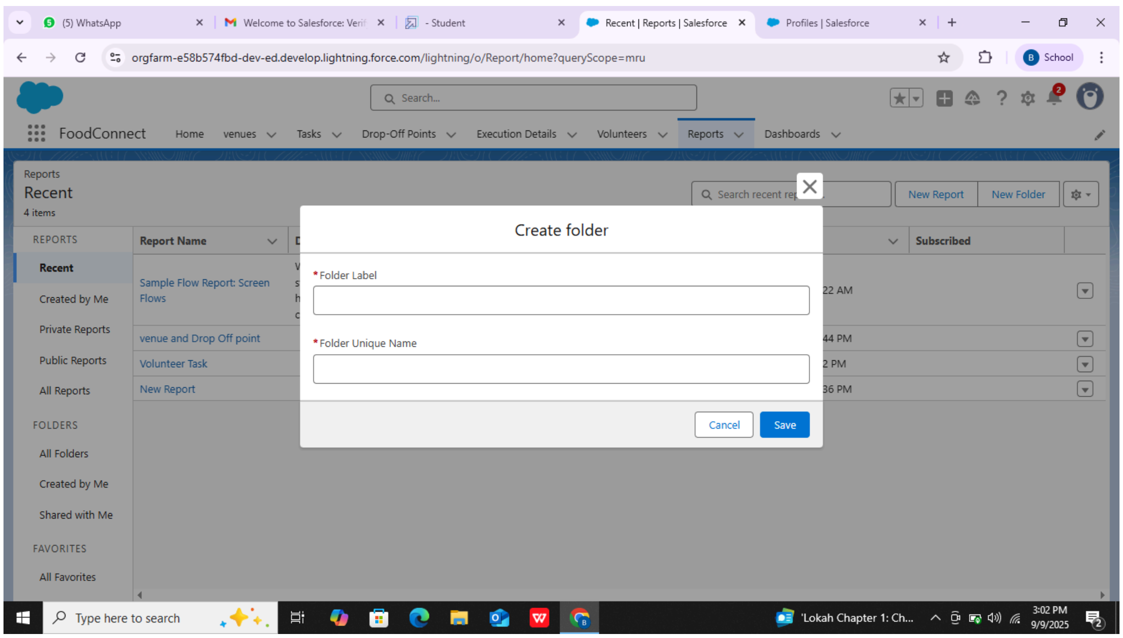
1. Click on Select Folder and select Custom Report, then click on Save.

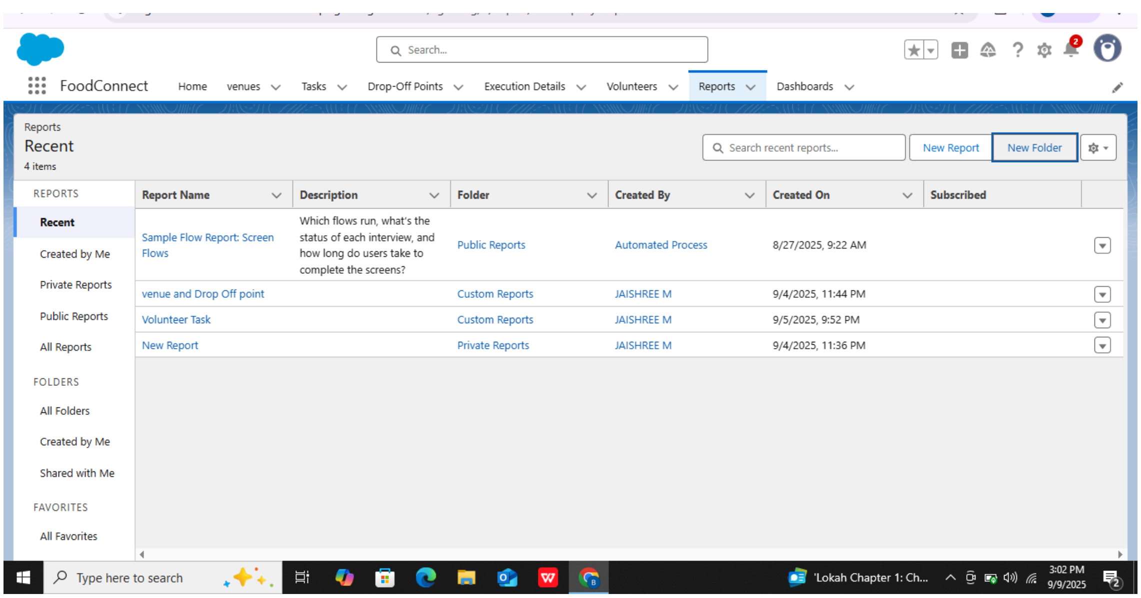
Dashboards:

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

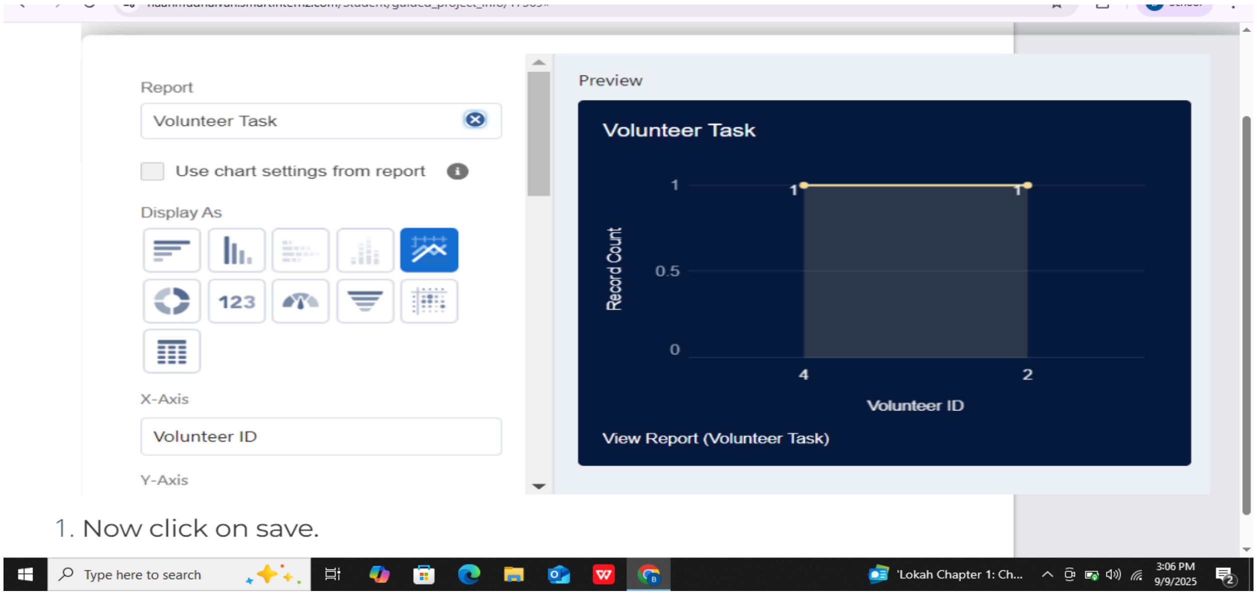
    Folder Label : Custom Dashboards

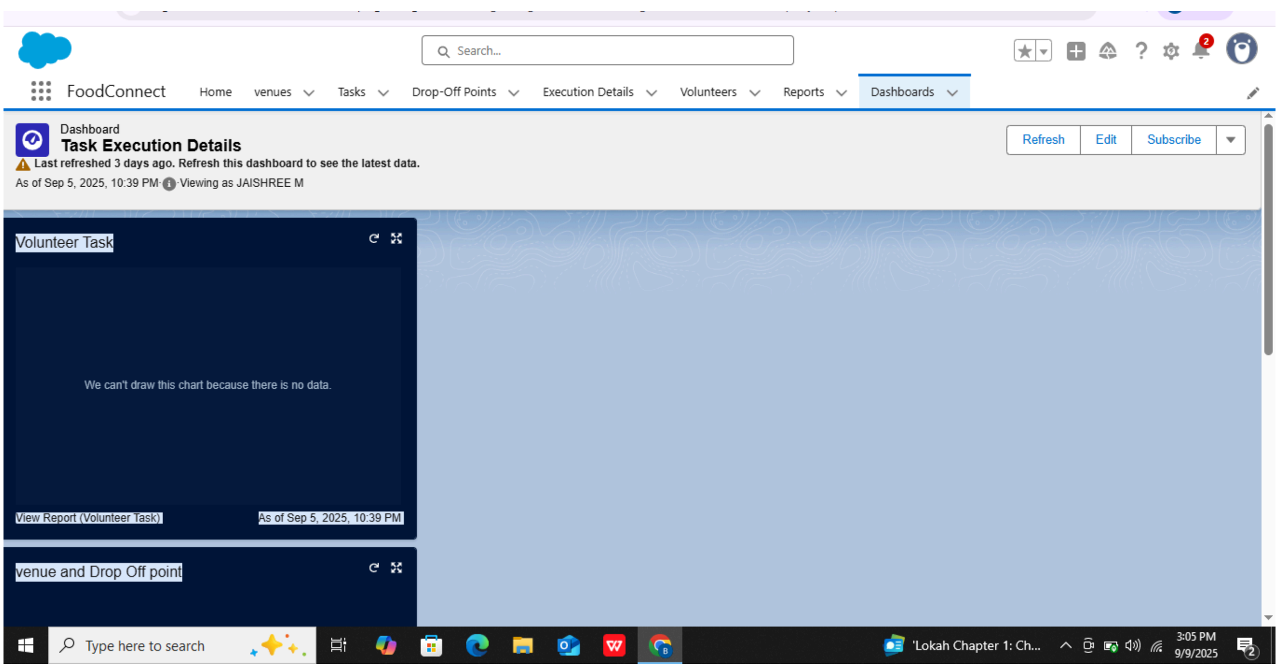
    Folder Unique Name : Auto Populated
3. Open Custom Dashboards and click on New Dashboards
4. Name : Organization Details
5. Click on Widget and select Chart or Table
6. In Select Report : Select venue and Drop Off point Report.
7. Then click on select





In Add





Component:

Display As : Select Lightning Table

Component Theme : Select Dark (Optional)

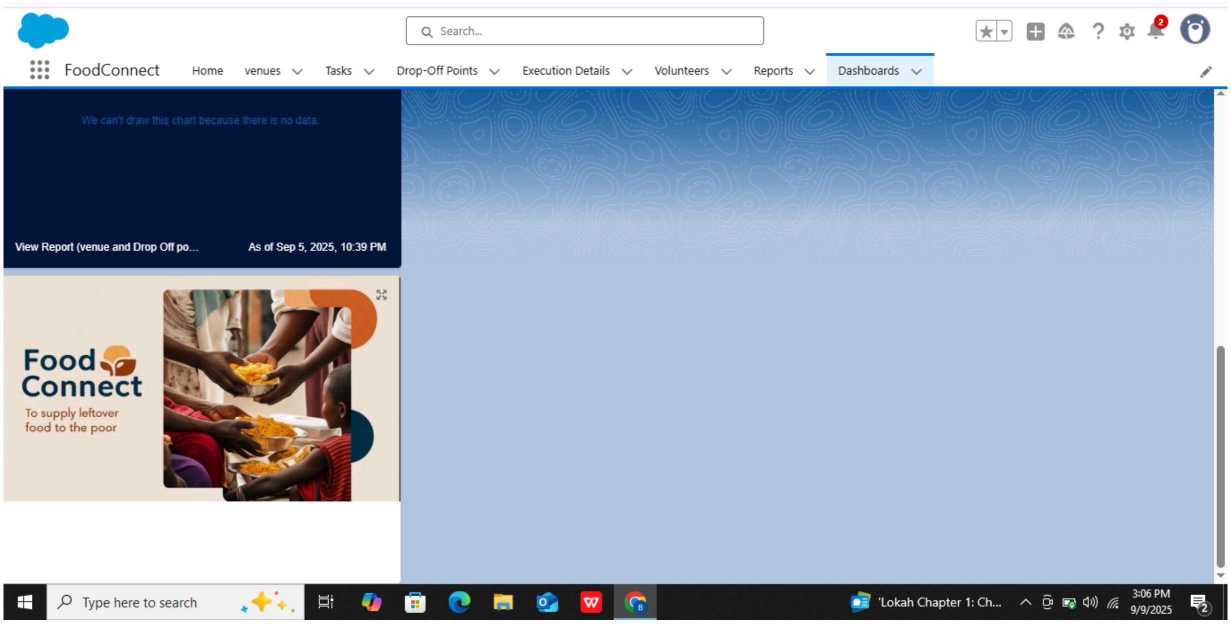
Adding a Picture to the Dashboard:

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.



Sharing Rules:

1. 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:

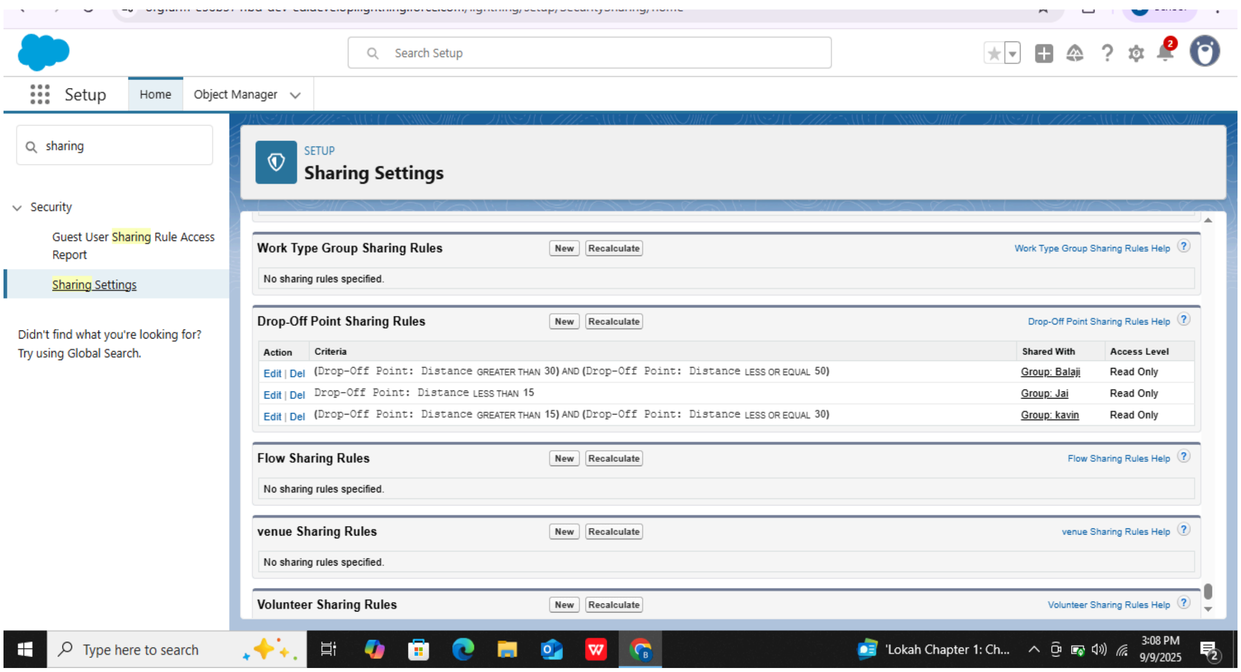
    Field : Operator : Value = Distance : greater than : 30

    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.



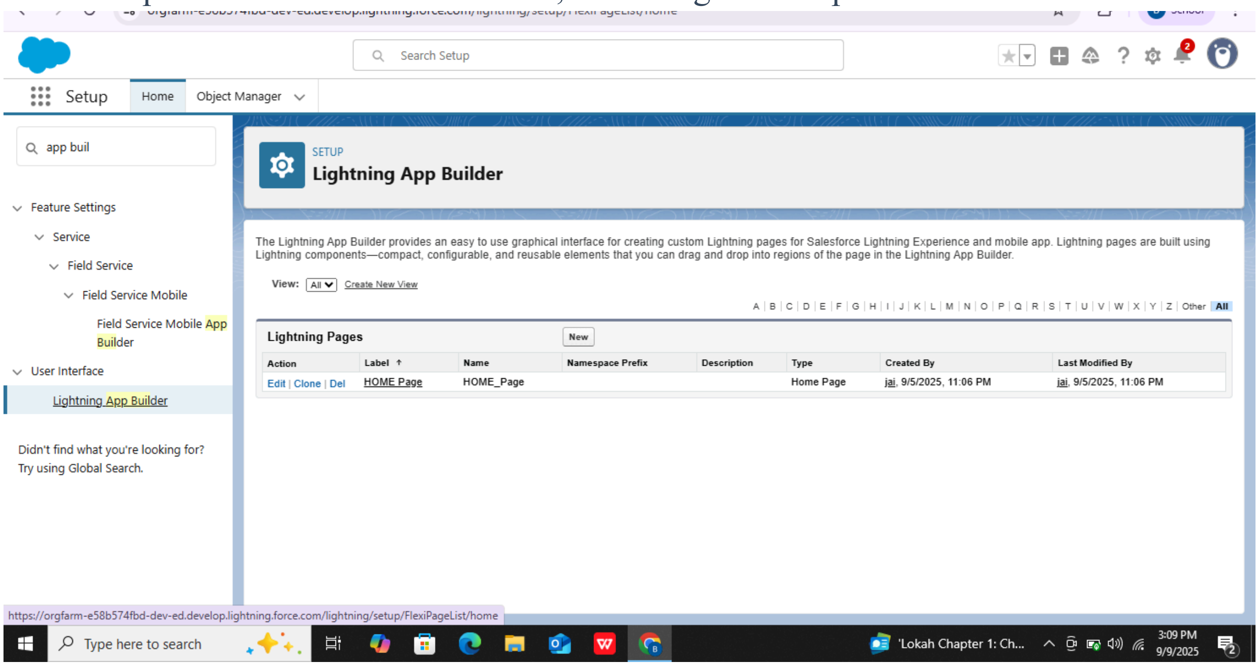
Home Page:

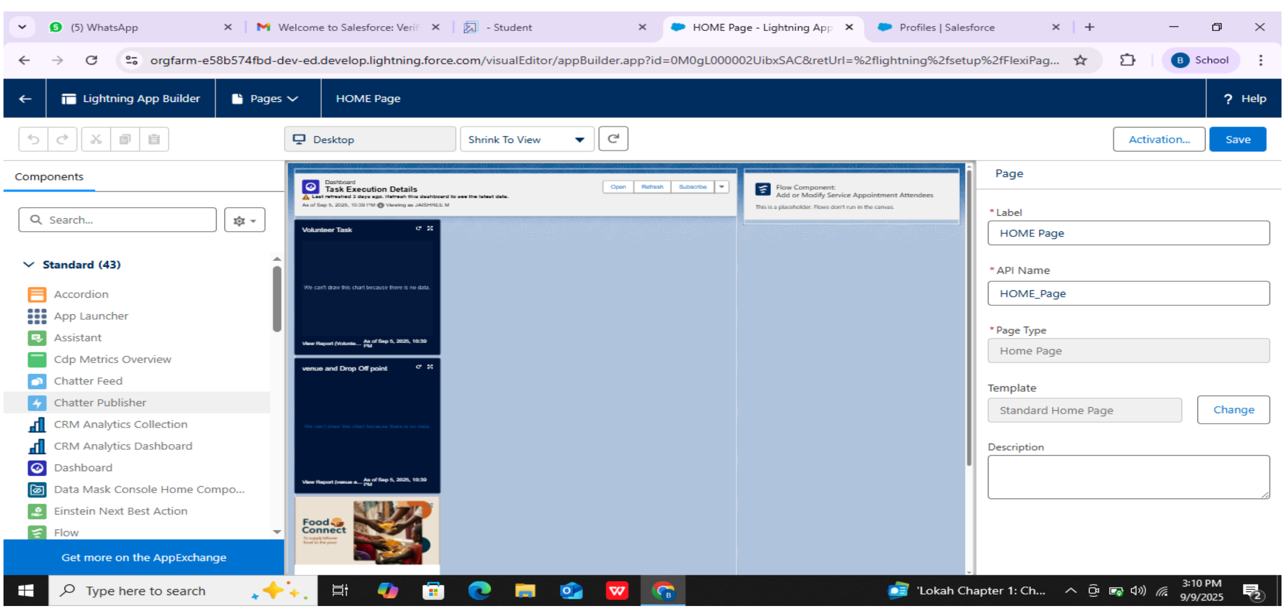
Creation of Home Page

1. 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

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





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

Conclusion

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

APPENDIX

● **Source Code:** Provided in Apex Triggers

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