FoodConnect- To supply left over food to poors

# Project Overview

Food Connect is a platform built on Salesforce, designed to streamline the collection and distribution of surplus food from a variety of donors—such as restaurants, event venues, and households—to underserved communities. By harnessing Salesforce’s robust CRM capabilities, the platform enables efficient management of donor relationships, real-time tracking of food availability, and seamless coordination of logistics for food distribution. With automated workflows in place, Food Connect enhances communication and optimizes supply chain processes, ensuring food reaches those in need promptly and effectively.

Table of Contents

1. Introduction
2. Project Objectives
3. Key Features
4. Salesforce Developer Setup
5. Testing and Validation
6. Video Demonstration
7. Conclusion

# Introduction

*Food Connect* is a purpose-driven platform designed to reduce food waste by redirecting surplus food

those in need. Built on Salesforce, it serves as a robust system for managing donor relationships, tracking food inventory, and coordinating food deliveries. Leveraging Salesforce's CRM, automation, and analytics capabilities, *Food Connect* fosters smooth collaboration among food donors, volunteers, and distribution networks.

# Project Objectives

* + Efficiently distribute leftover food to charities and shelters.
  + Automate workflows for notifications, food pickups, and deliveries.
  + Enable real-time tracking of inventory and supply chain.
  + Enhance community outreach and provide insightful reporting.

# Key Features

* + **Food Pickup and Distribution Tracking:** Automate and track food pickup requests to ensure timely delivery to shelters.
  + **Inventory Management:** Real-time monitoring of food availability for efficient distribution based on demand.
  + **Reporting and Analytics:** Generate reports and dashboards on food distribution, donor contributions, and recipient data.
  + **Mobile Access:** Allow volunteers and coordinators to manage tasks on the go via the Salesforce Mobile app.

# Salesforce DeveloperSetup And WorkFlow

Creating a Salesforce Developer Account:

1. Visit Salesforce Developer Signup.
2. Fill out the signup form:
   * . First Name & Last Name : Kalepu Sai Teja
   * . [Email :](mailto:22135a0515@gvpce.ac.i) [21131a05l2@gvpce.ac.in](mailto:21131a05l2@gvpce.ac.in)
   * . Role: Developer
   * . Company: GVPCE(A)
   * . Country: India
   * . Username:kalepusaiteja9@gmail.com
3. Account Activation

-Check your email inbox for a verification email from Salesforce.

-Click Verify Account.

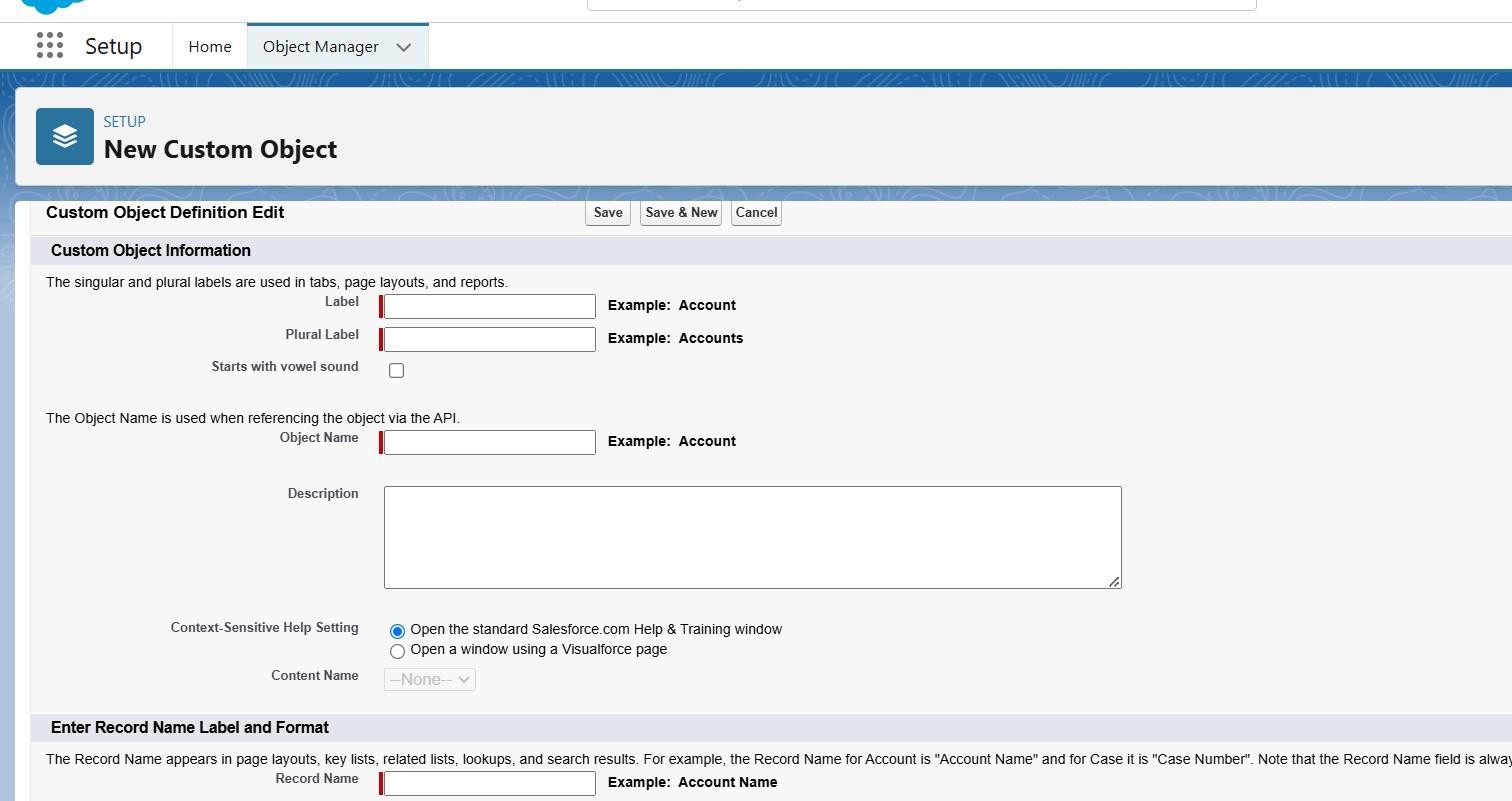
-Set up your password and security question, then click Change Password.

1. Creating Salesforce Objects

-Go to Object Manager and create the Custom Objects Like Venue, Drop-offpoint, Task, Volunteer, Execution Details.

## For example create drop-off point :

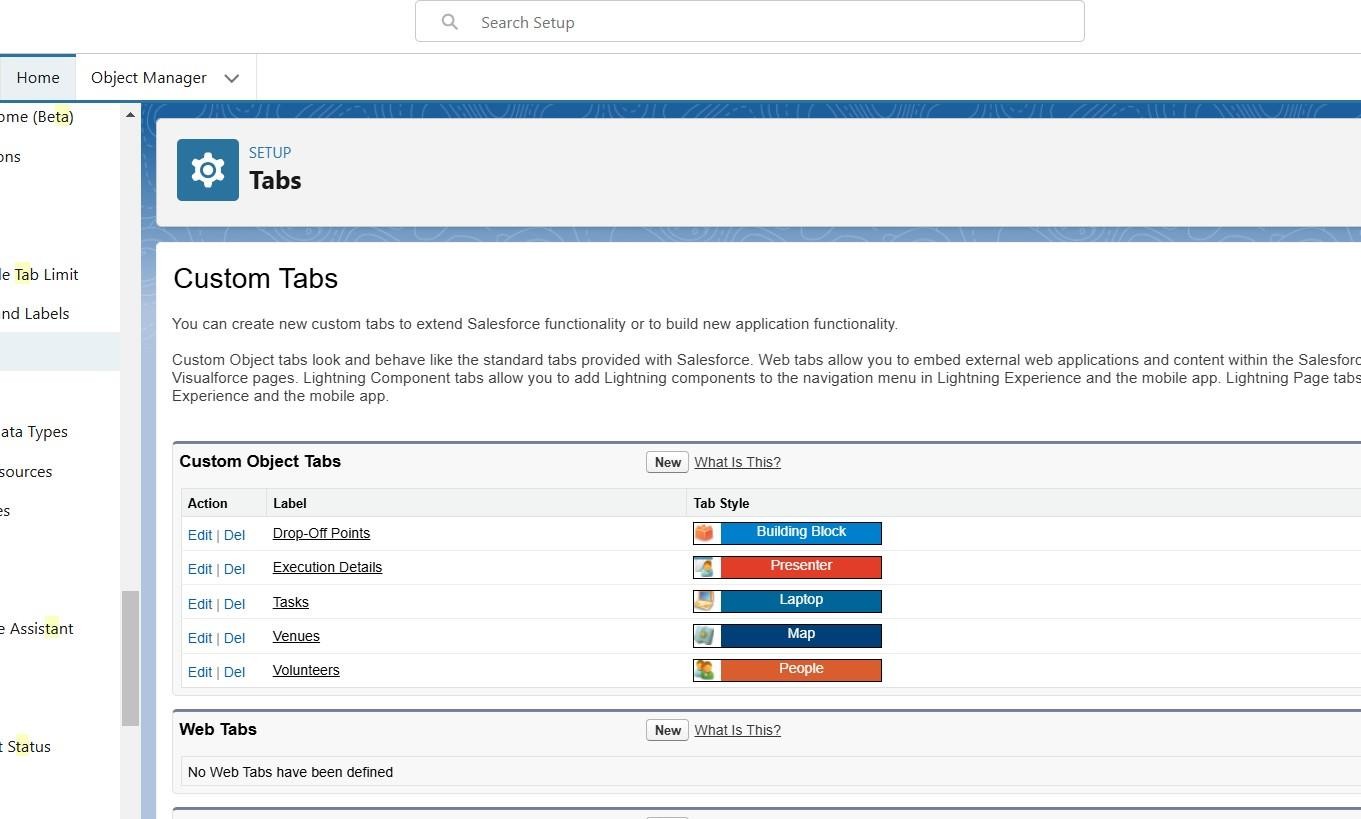
Create Drop-Off Point Object To create an object:

* 1. From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.
     + Enter the label name >> Drop-Off Point
     + Plural label name>> Drop-Off Points
     + 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.

# Tabs*:*

## To create custom tabs:

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



# Creation of fields for the objects

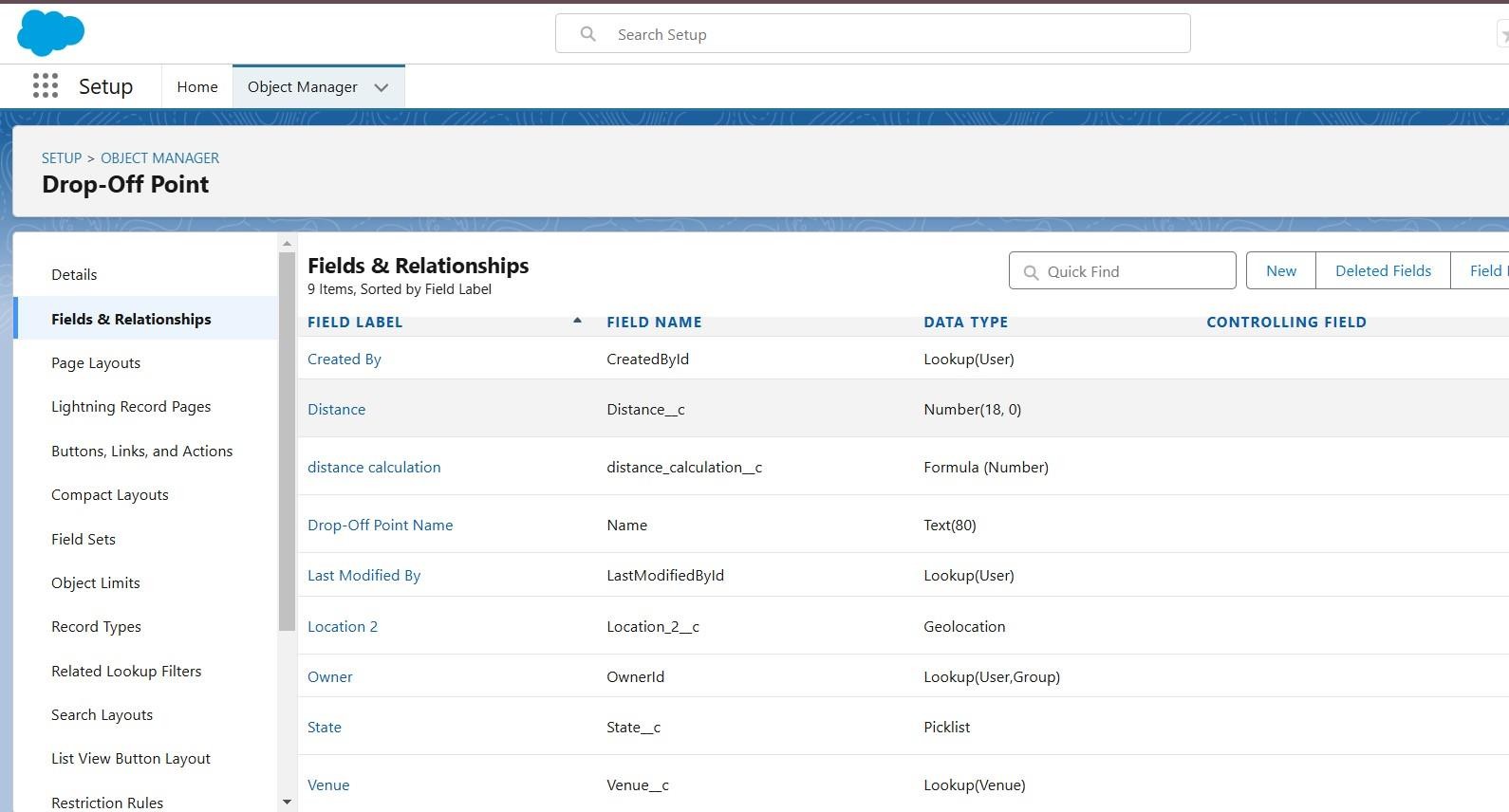
For the Drop-off Point Object:

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

1. Now click on “Fields & Relationships” >> New
2. Select Data type as a “Geolocation” and Click on Next
3. Fill the Above as following:
   1. Field Label : Location 2
   2. Field Name : gets auto generated
   3. Description : Enter the Geolocation of the Drop off Point
   4. Geolocation Options : select Decimal
   5. Decimal Places : 4
   6. Click on Next >> Next >> Save and new.

To create another fields in an object:

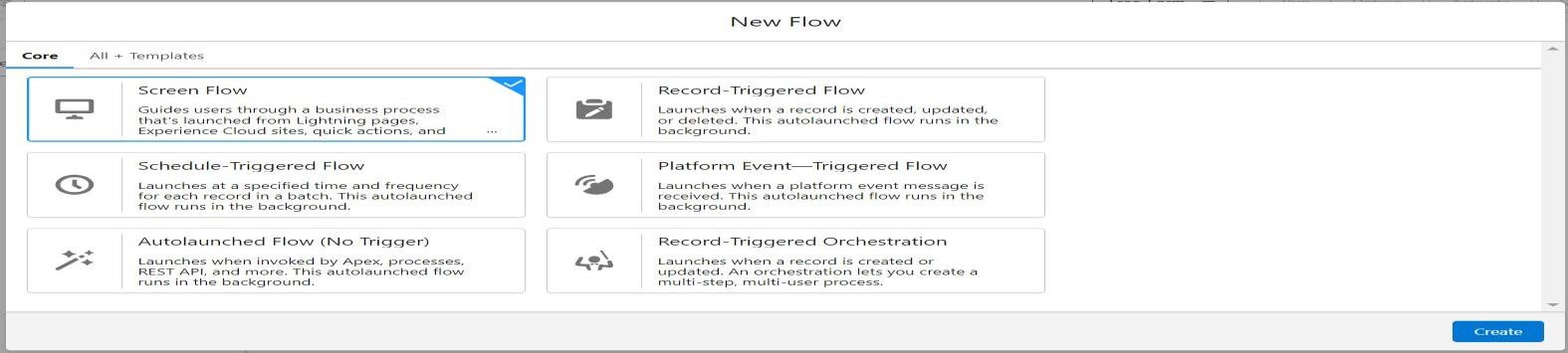
1. Go to setup >> click on Object Manager >> type object name(Drop-Off point) in search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “Formula” and Click on Next
4. Fill the Above as following:
   1. Field Label : distance calculation
   2. Field Name : distance\_calculation
   3. Formula Return Type : Number
   4. Formula Options : DISTANCE( Location\_2c , Venue r.Location c , 'km')
   5. Click on Next >> Next >> Save and new.



### 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.



1. Click on the ‘+’ icon in between start and end, and click on screen element.
2. Under the Screen Properties:Label : Venue Details

API Name : Venue\_Details

1. Now lets add components in this flow. Click on Text Component and name it as:Label : Venue Name

API Name : Venue\_Name

1. Click on Email Component and name it as:Label : Email

API Name : Contact\_Email

1. Click on Phone Component and name it as:Label : Phone

API Name : Contact\_Phone

1. Click on Text Component and name it as:Label : Venue Location

API Name : Venue\_Location

1. Click on Number Component and name it as:Label : Latitude

API Name : Latitude

1. Click on Number Component and name it as:Label : longitude

API Name : longitude

1. Next click on Done.
2. Click on the ‘+’ icon in between Venue details and end, and click on create record element.
3. Now label it as

Label : Create Venue RecordAPI Name :

Create\_Venue\_Record

How Many Records to Create : One

How to Set the Record Fields : Use separate resources, and literal valuesObject : Venue

Set Field Values for the Venue : Click on ‘Add Field’ 5 timesField : Value = Contact\_Email c :

{!Contact\_Email.value} Field : Value = Contact\_Phone c

: {!Contact\_Phone.value} Field : Value = Name :

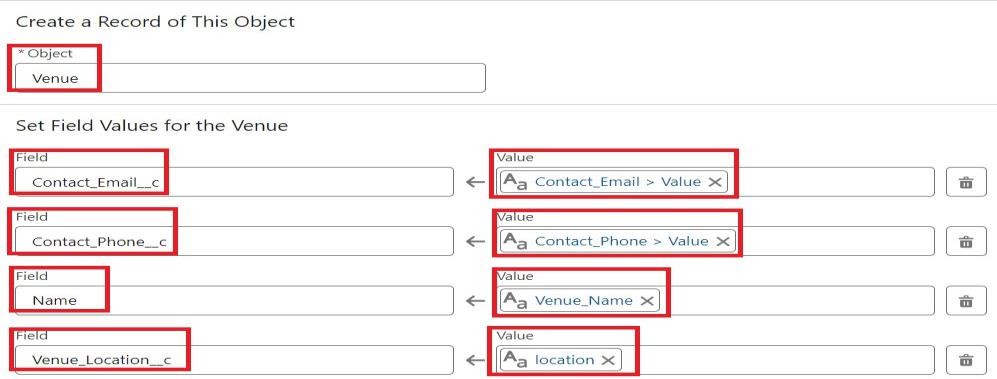
{!Venue\_Name}

Field : Value = Venue\_Location c : {!location} Field : Value = LocationLatitudes :

{!latitude}

Field : Value = LocationLongitude s : {!longitude}

1. This would look like:



1. Click on Save as:

Flow Label : Venue Form Flow API Name :

Venue\_Form

# Trigger Code:

trigger DropOffTrigger on Drop\_Off\_point c (before insert) { for(Drop\_Off\_pointc Drop : Trigger.new){

Drop.Distancec = Drop.distance\_calculation c}

}

# Creation Of Users:

## User-1:

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 : Ikshaka\_Foundation

Alias : iiksh

Email : Give Your Email

Username : [ikshakafoundation@sb.com](mailto:ikshakafoundation@sb.com) (give the username different) Nickname : Auto Populated

User License : Salesforce Platform

Profile : NGOs ProfileActive :

Check

3.Click On Save.

## User-2,User-3:

1. Create another Two Users by following steps in Activity - 1 with similar User License and Profile.
2. Give First Name and Last Name based on Different NGO’s

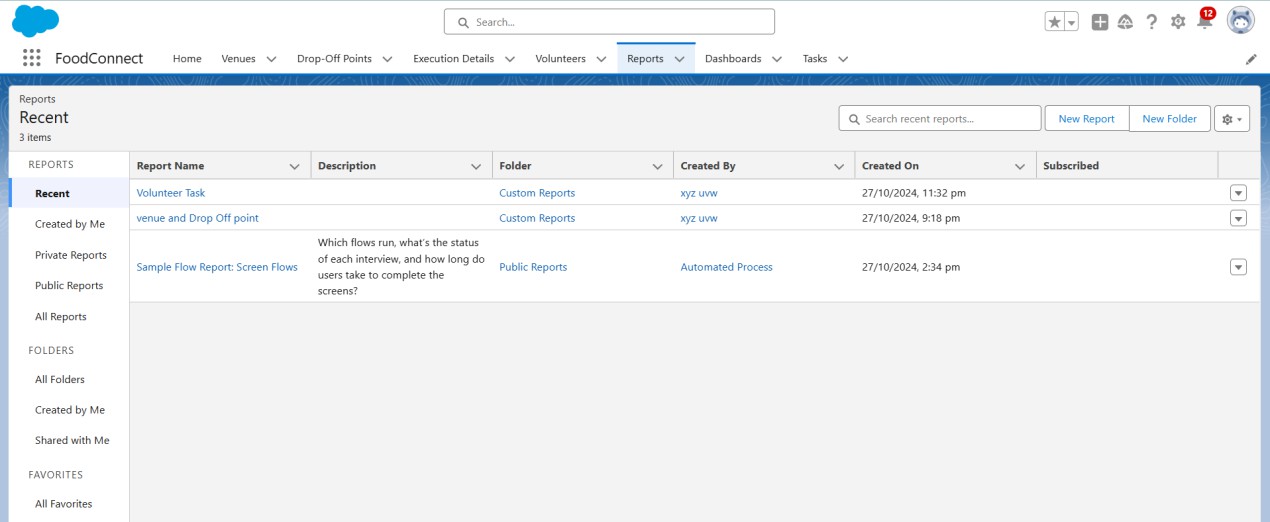
### Creation Of Report :

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

Folder Label : Custom Reports

Folder Unique Name : CustomReports

1. Open Custom Reports and click on New Report
2. Select Report Type : Venue with DropOff with Volunteer
3. Then click on Start Report.
4. In GROUP ROWS : Add Volunteer Name
5. In Columns : Add Venue Name, Drop-Off point Name, Distance.
6. Now click on Save & Run.
7. Give Label as :
8. Report Name : venue and Drop Off point
9. Report Unique Name : Auto Populated
10. Click on Select Folder and select Custom Report, then click on Save.



# Dashboards:

Adding venue and Drop Off point Report to the Dashboard

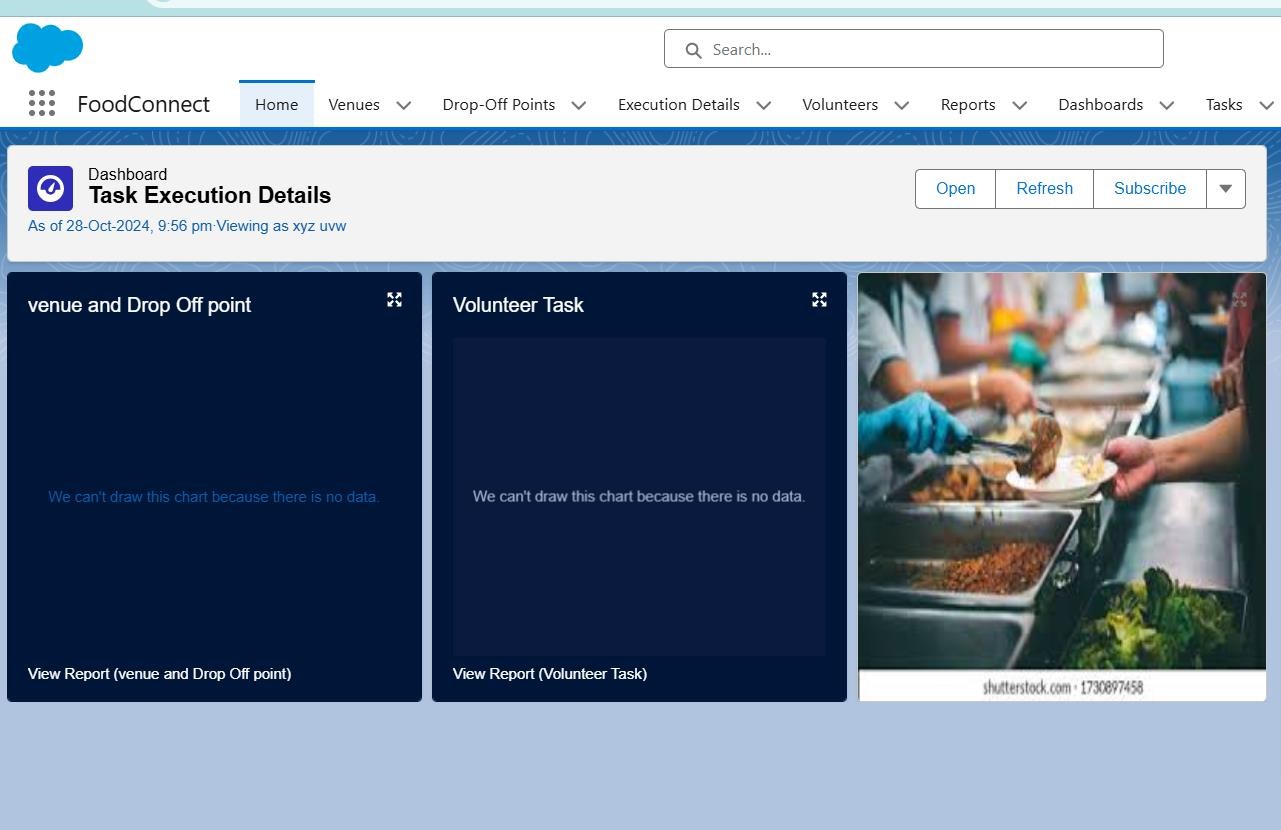
1. Go to the app(FoodConnect) >> click on the Dashboards tab.
2. Click on New Folder.

Folder Label : Custom Dashboards Folder Unique Name : Auto Populated

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

Display As : Select Lightning Table Component Theme : Select Dark (Optional)

# OVERVIEW OF DASHBOARD:



**Sharing Rules:**

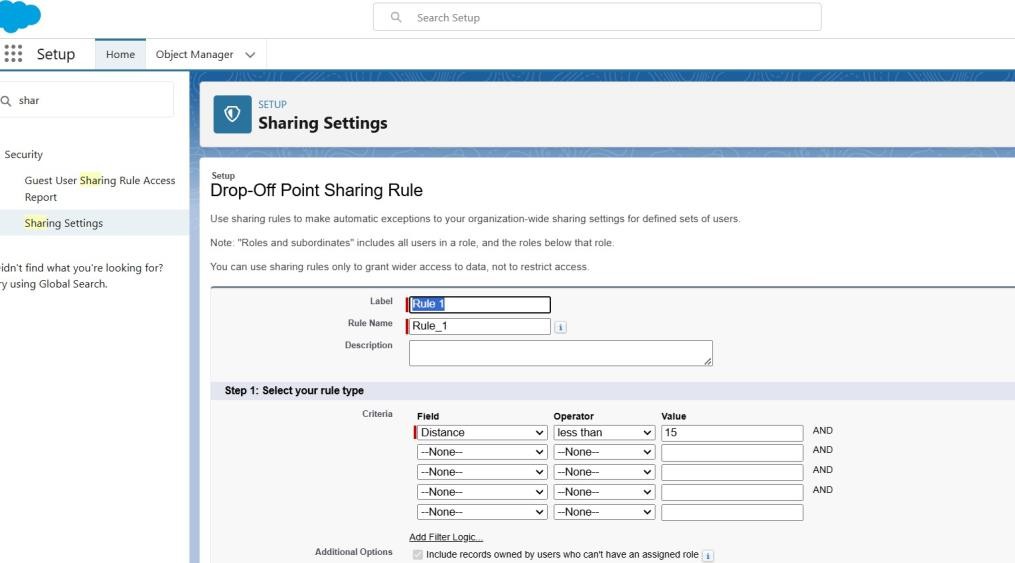
1. Go to setup >> type Sharing Settings in quick find box >> Click on the Sharing Settings.
2. Scroll down and find Drop-Off point Sharing Rules.
3. Click on new near Drop-Off point Sharing Rules and Name it as:Label : Rule 1

Rule Name : Rule\_1

1. Select your rule type : Select Based on criteria.
2. Select which records to be shared:

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

1. Select the users to share with : Near Share WithPublic Groups : Ikshaka
2. Click on Save.



1. Click on new near Drop-Off point Sharing Rules and Name

it as:Label : Rule 2 Rule Name : Rule\_2

1. Select your rule type : Select Based on criteria.
2. Select which records to be shared:

Field : Operator : Value = Distance : greater than : 15 Field : Operator : Value = Distance : less or equal : 30

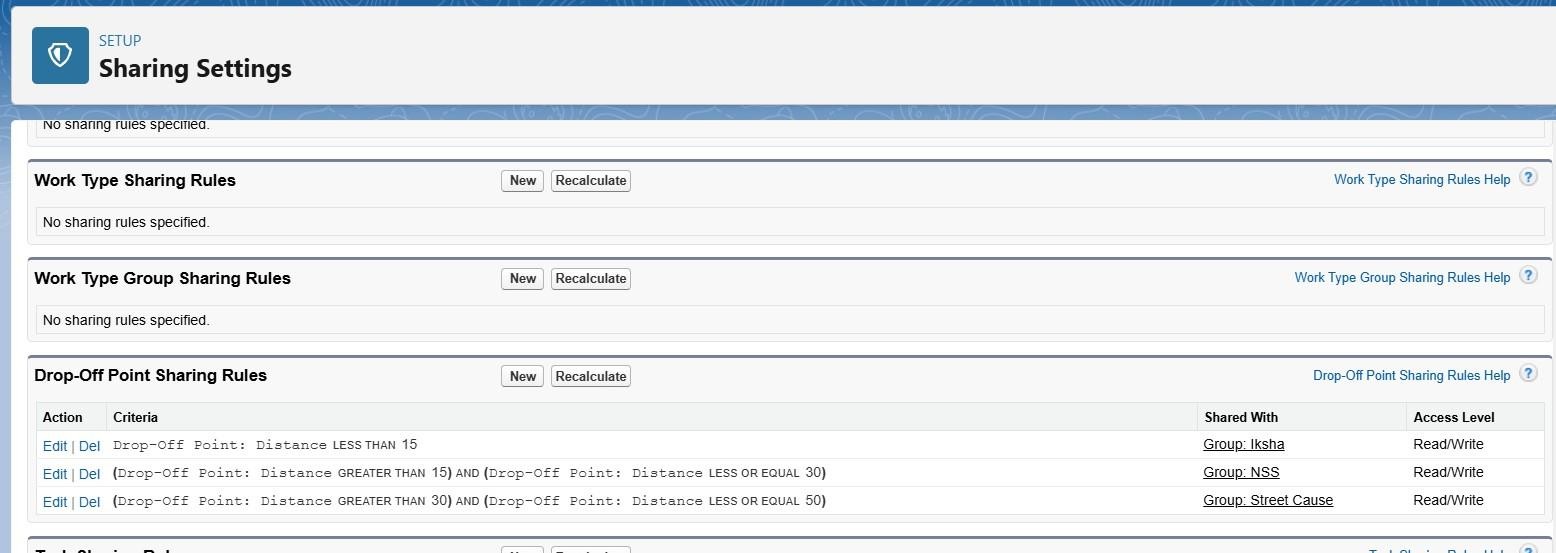
1. Select the users to share with : Near Share With Public Groups : NSS
2. Click on Save.
3. Click on new near Drop-Off point Sharing Rules and Name it as:Label : Rule 3

Rule Name : Rule\_3

1. Select your rule type : Select Based on criteria.
2. Select which records to be shared:

Field : Operator : Value = Distance : greater than : 30 Field : Operator : Value = Distance : less or equal : 50

1. Select the users to share with : Near Share WithPublic Groups : Street Cause
2. Click on Save.

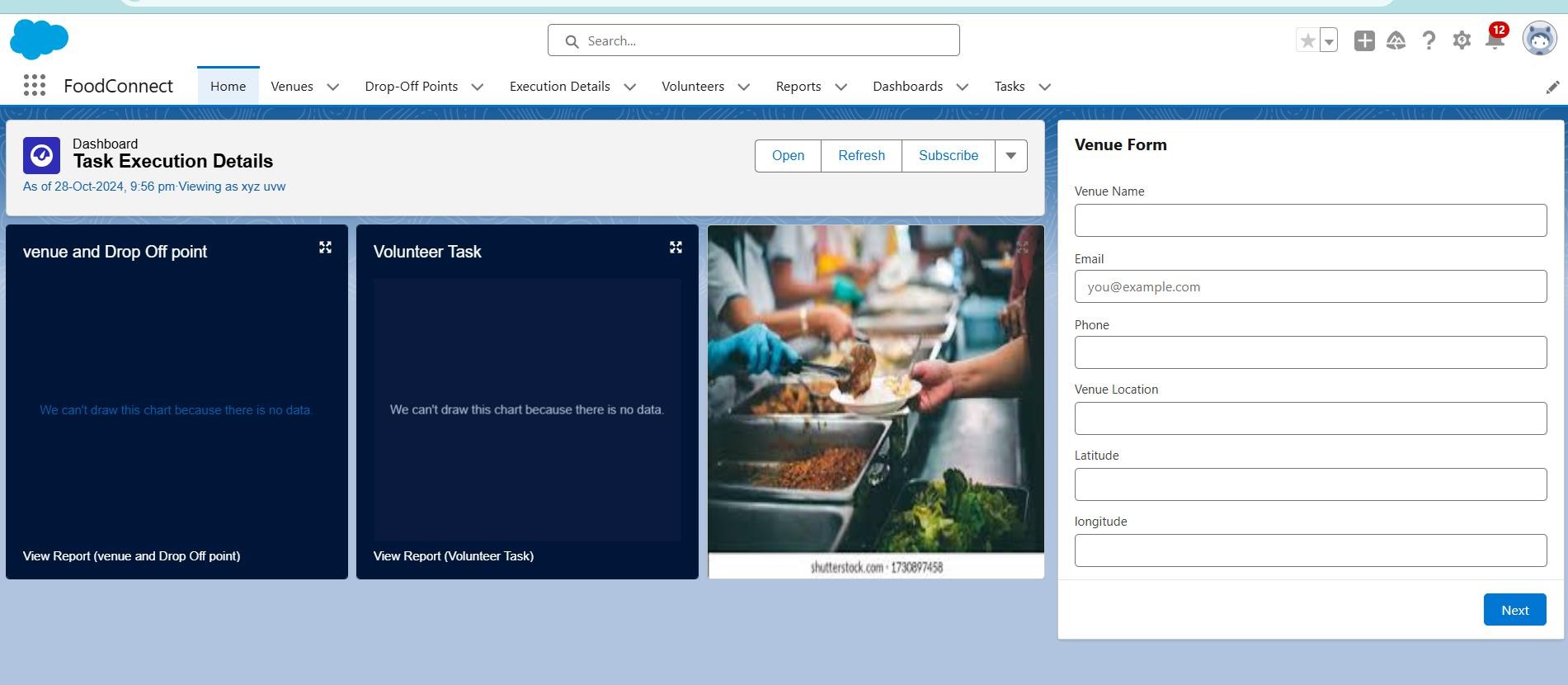
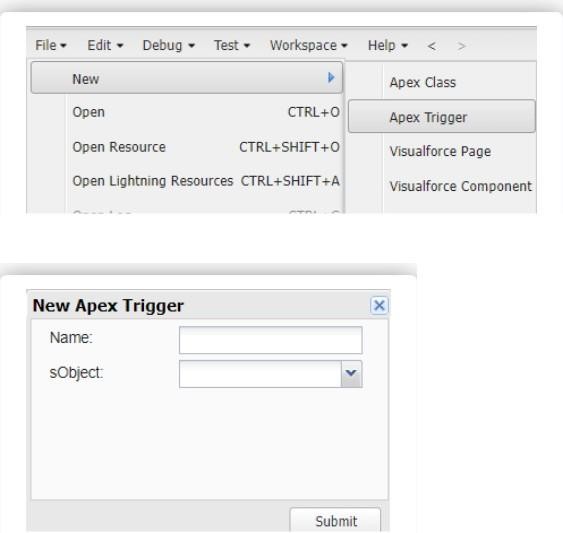


# Creation Of HomePage:

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

1. Near Components search for Dashboard, then Drag and Drop it in first Section.
2. Click on Save and Activation, then click on App Default, then Add Assignments.
3. Add FoodConnect App and then Save.
4. FoodConnect Home Page would Look Like this.



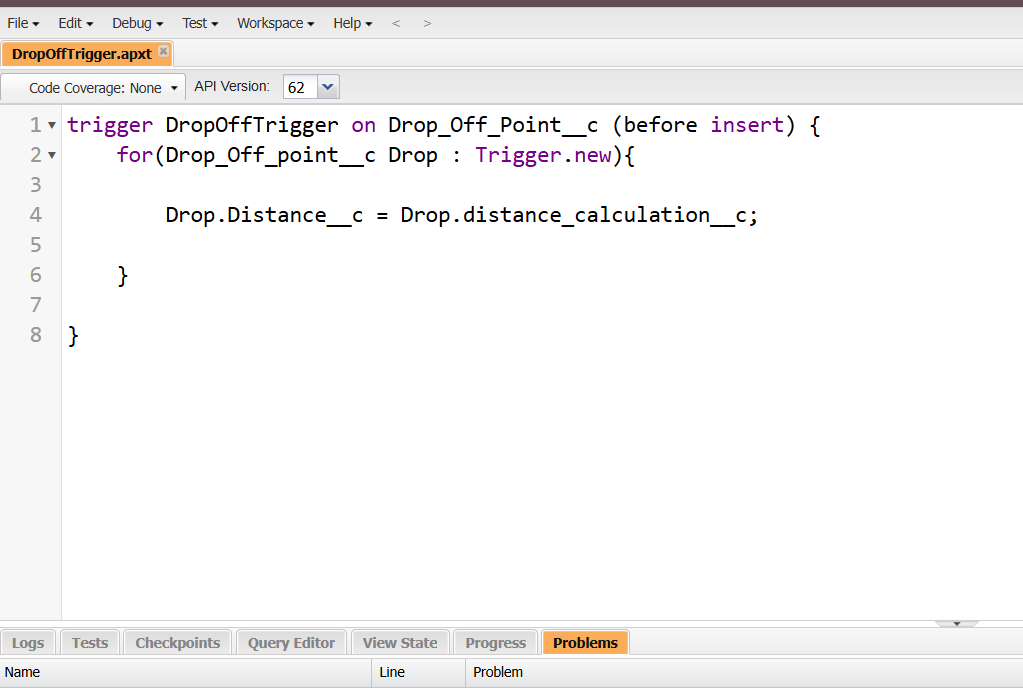
# Testing and Validation

### 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 :

DropOffTriggersObject:

Drop-Off Point

1. Click on Submit.

## Vedio Demonstation

Here are links to view the *Food Connect* project in action:

* **GitHub Repository:** https://github.com/SaiTejaKalepu09/SalesForceProject

## Project DemoVideo:

https://drive.google.com/file/d/1C8rnCe9rNpvLagdAN0OT5f\_8gRJrmfv\_/view?usp=sharing

These resources provide a comprehensive look at the platform’s structure, functionality, and real-time operations, showcasing how *Food Connect* facilitates the effective distribution of surplus food to those in need.

## Conclusion

The *Food Connect* project leverages Salesforce to establish an efficient, transparent system for managing surplus food donations. By streamlining coordination with volunteers and ensuring prompt deliveries to those in need, *Food Connect* tackles food insecurity and optimizes resource usage. This project exemplifies Salesforce's adaptability for non-profit operations, showcasing how technology-driven automation can bridge the gap between excess food and under-resourced communities, making a measurable impact.