

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.

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1. 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.

2. 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.

3. 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.

4. Salesforce Developer Setup And WorkFlow

Creating a Salesforce Developer Account:

1. Visit Salesforce Developer Signup.

2. Fill out the signup form:

- First Name & Last Name : Pulla Laxmi Ramya Sri
- Email : 21131a05j3@gvpce.ac.in
- Role: Developer
- Company: GVPCE(A)
- Country: India
- Username: xyzuvw@gvpce.com

2. 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.

3. 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:

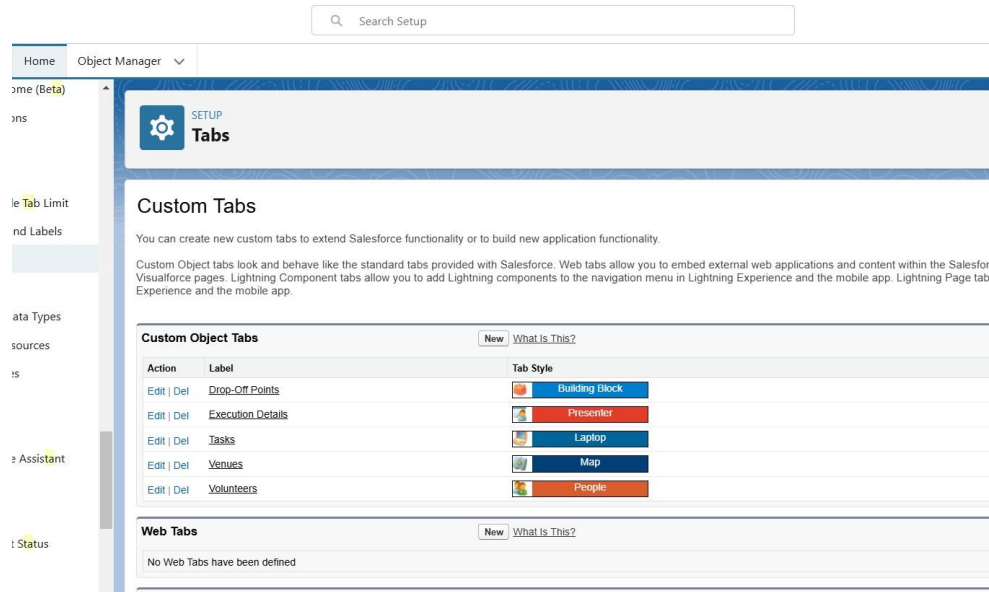
1. From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.
 - Enter the label name >> Drop-Off Point
 - Plural label name>> Drop-Off Points
 - Enter Record Name Label and Format
 - Record Name >> Drop-Off point Name
 - Data Type >> Text
2. Click on Allow reports and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

The screenshot shows the 'New Custom Object' page in Salesforce Setup. The breadcrumb trail is Setup > Home > Object Manager > Create > Custom Object. The page title is 'New Custom Object'. Below the title is a 'Custom Object Definition Edit' section with 'Save', 'Save & New', and 'Cancel' buttons. The 'Custom Object Information' section includes fields for 'Label' (Example: Account), 'Plural Label' (Example: Accounts), and a checkbox for 'Starts with vowel sound'. Below this is the 'Object Name' field (Example: Account) and a 'Description' text area. The 'Context-Sensitive Help Setting' section has two radio buttons: 'Open the standard Salesforce.com Help & Training window' (selected) and 'Open a window using a Visualforce page'. There is also a 'Content Name' dropdown menu set to 'None'. The 'Enter Record Name Label and Format' section at the bottom includes a 'Record Name' field (Example: Account Name) and a note explaining its use in page layouts, key lists, related lists, lookups, and search results.

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.

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

3. Select Data type as a “Geolocation” and Click on Next

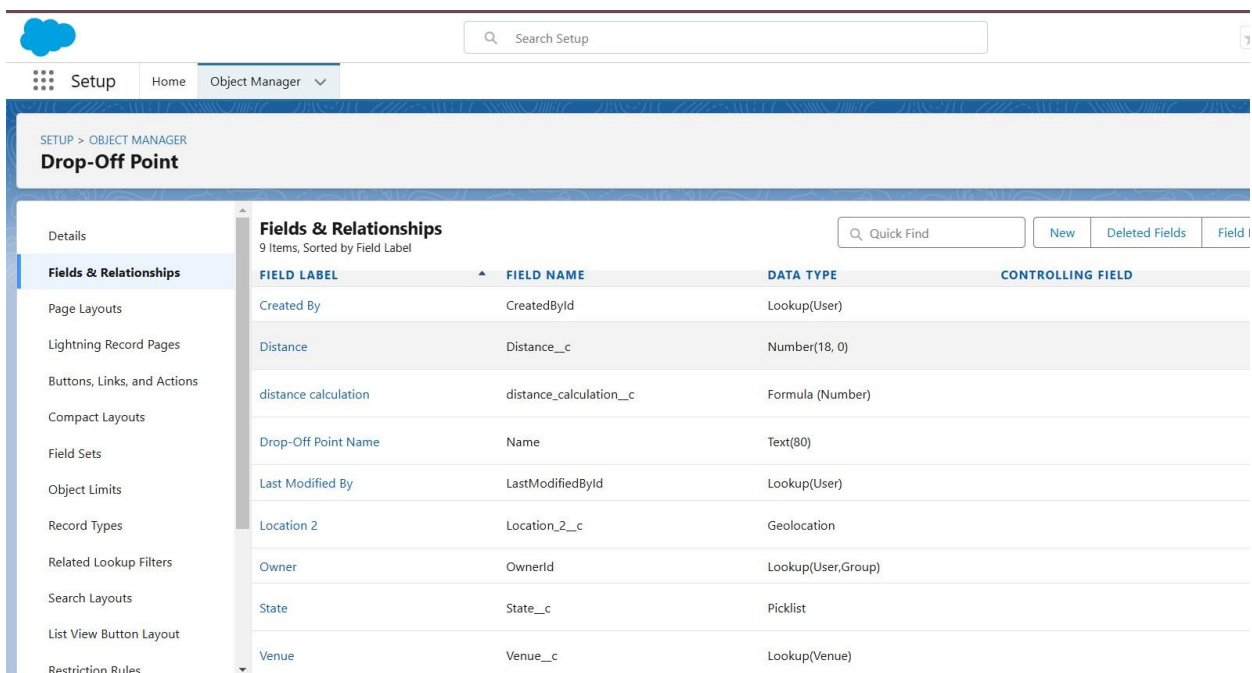
4. Fill the Above as following:

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_2__c , Venue__r.Location__c , 'km')
 5. Click on Next >> Next >> Save and new.



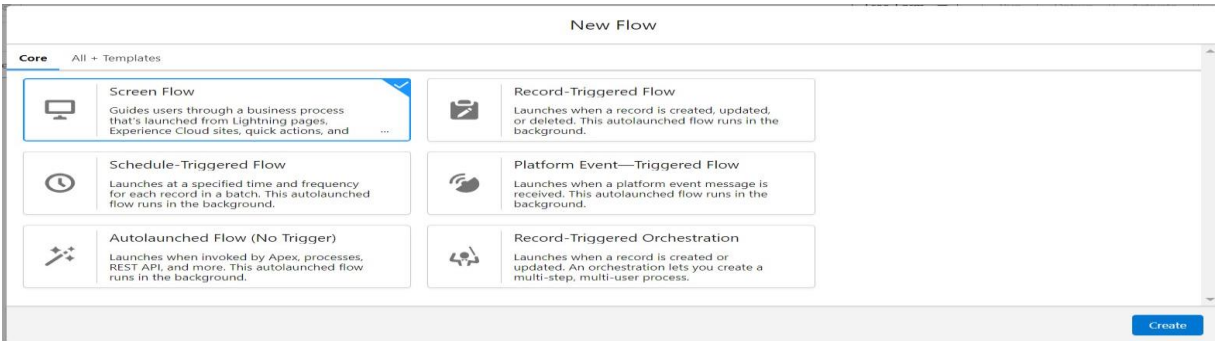
The screenshot shows the Salesforce Setup interface for the 'Drop-Off Point' object. The 'Fields & Relationships' section is active, displaying a table of 9 fields. The table has four columns: FIELD LABEL, FIELD NAME, DATA TYPE, and CONTROLLING FIELD. The fields listed are: Created By (Lookup(User)), Distance (Number(18, 0)), distance calculation (Formula (Number)), Drop-Off Point Name (Text(80)), Last Modified By (Lookup(User)), Location 2 (Geolocation), Owner (Lookup(User,Group)), State (Picklist), and Venue (Lookup(Venue)).

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD
Created By	CreatedBy	Lookup(User)	
Distance	Distance__c	Number(18, 0)	
distance calculation	distance_calculation__c	Formula (Number)	
Drop-Off Point Name	Name	Text(80)	
Last Modified By	LastModifiedBy	Lookup(User)	
Location 2	Location_2__c	Geolocation	
Owner	OwnerId	Lookup(User,Group)	
State	State__c	Picklist	
Venue	Venue__c	Lookup(Venue)	

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 let's 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.
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

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 = Location_Latitude_s :

{!latitude}

Field : Value = Location_Longitude__s : {!longitude}

14. This would look like:

Create a Record of This Object

* Object
Venue

Set Field Values for the Venue

Field	Value
Contact_Email_c	Contact_Email > Value
Contact_Phone_c	Contact_Phone > Value
Name	Venue_Name
Venue_Location_c	location

15. 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_point_c Drop : Trigger.new){
    Drop.Distance__c = 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 : ikshakaoundation@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

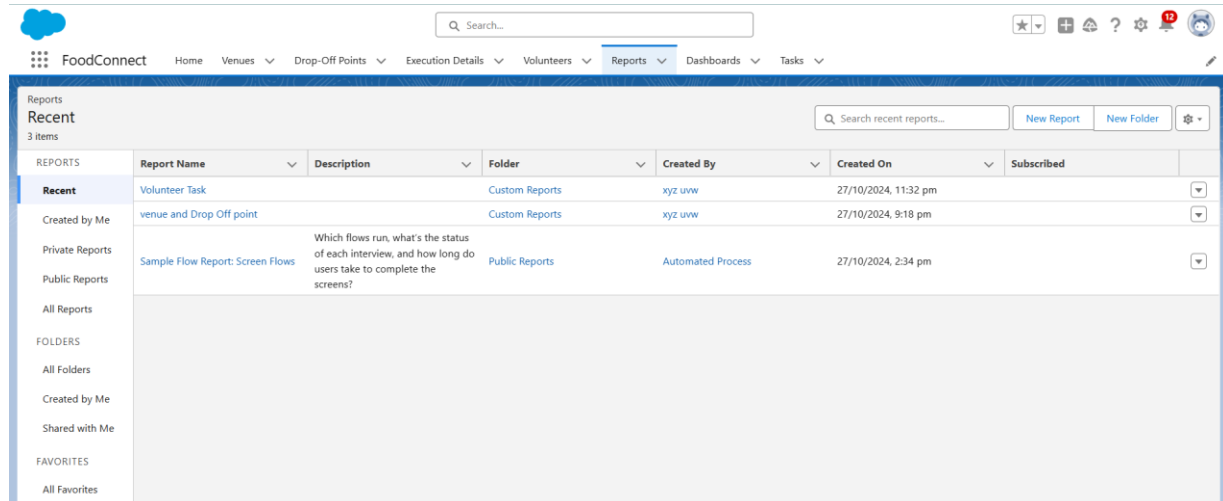
Creation Of Report :

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

Folder Label : Custom Reports

Folder Unique Name : CustomReports
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.



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

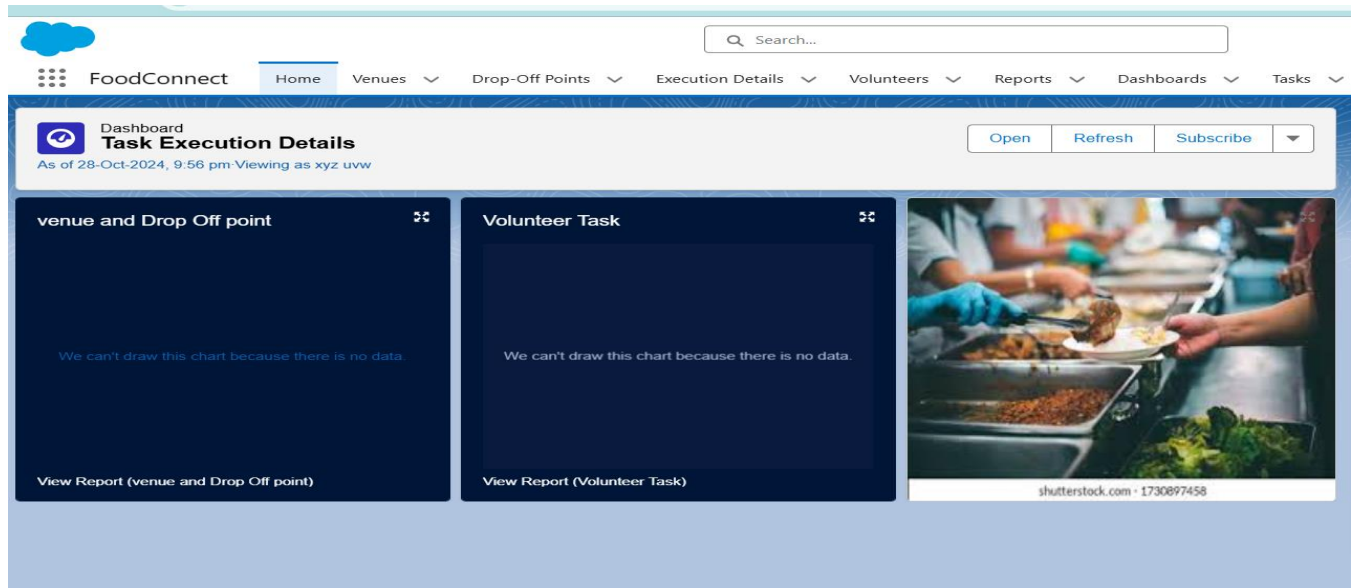
Folder Unique Name : Auto

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)

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
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 : Ikshaka
7. Click on Save.

Search Setup

Setup

Home Object Manager

Search shar

Security

Guest User Sharing Rule Access Report

Sharing Settings

Didn't find what you're looking for? Try using Global Search.

SETUP

Sharing Settings

Setup

Drop-Off Point Sharing Rule

Use sharing rules to make automatic exceptions to your organization-wide sharing settings for defined sets of users.

Note: "Roles and subordinates" includes all users in a role, and the roles below that role.

You can use sharing rules only to grant wider access to data, not to restrict access.

Label: Rule 1

Rule Name: Rule_1

Description:

Step 1: Select your rule type

Criteria	Field	Operator	Value	
	Distance	less than	15	AND
	--None--	--None--		AND
	--None--	--None--		AND
	--None--	--None--		AND
	--None--	--None--		AND

Add Filter Logic...

Additional Options

☐ Include records owned by users who can't have an assigned role

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

WithPublic Groups : Street Cause

17. Click on Save.

Action	Criteria	Shared With	Access Level
Edit Del	Drop-Off Point: Distance LESS THAN 15	Group: Iksha	Read/Write
Edit Del	(Drop-Off Point: Distance GREATER THAN 15) AND (Drop-Off Point: Distance LESS OR EQUAL 30)	Group: NSS	Read/Write
Edit Del	(Drop-Off Point: Distance GREATER THAN 30) AND (Drop-Off Point: Distance LESS OR EQUAL 50)	Group: Street Cause	Read/Write

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.

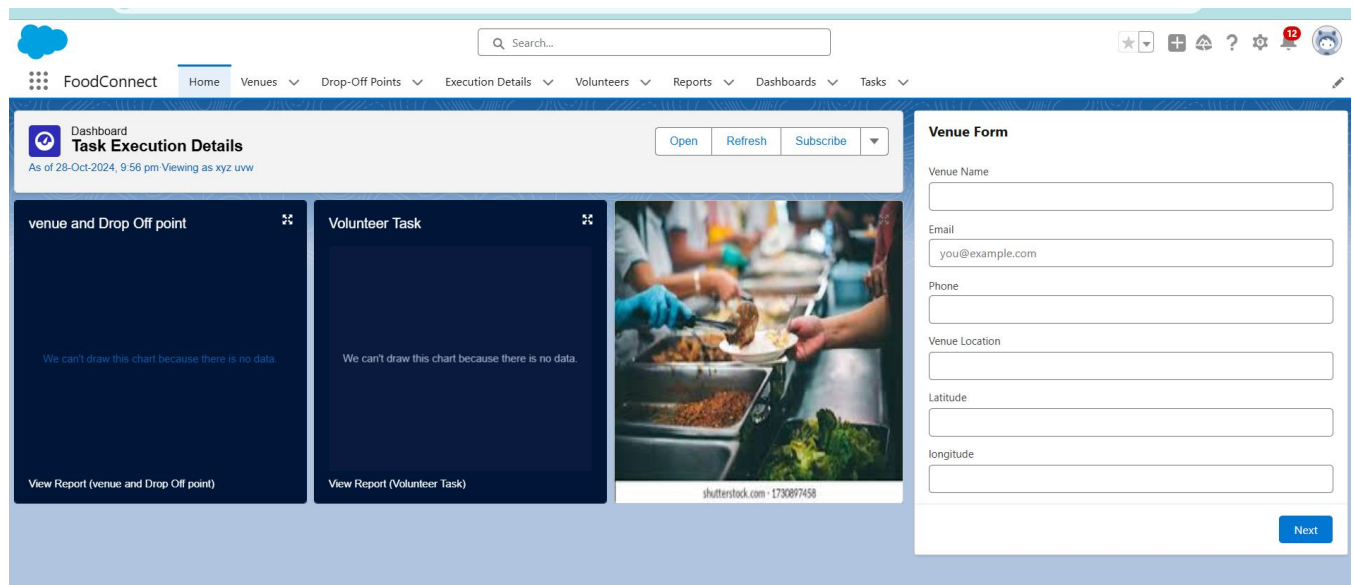
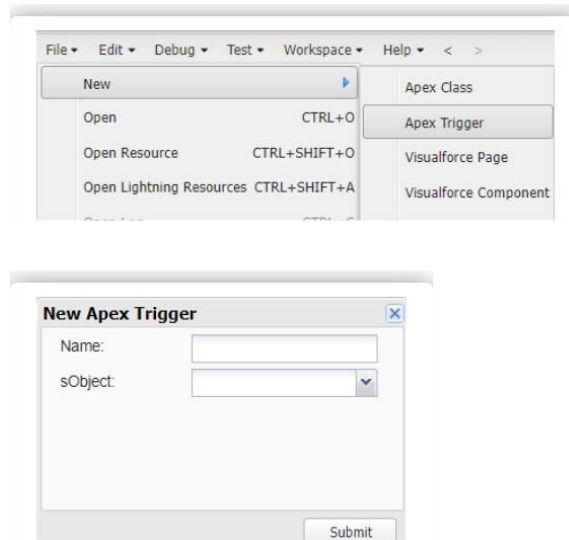
3. Select Standard Home Page.

4. Near Components search for Flow and Drag and Drop in Right Side Section..

5. On the right hand side:

Flow : Venue Flow

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.



5. Testing and Validation

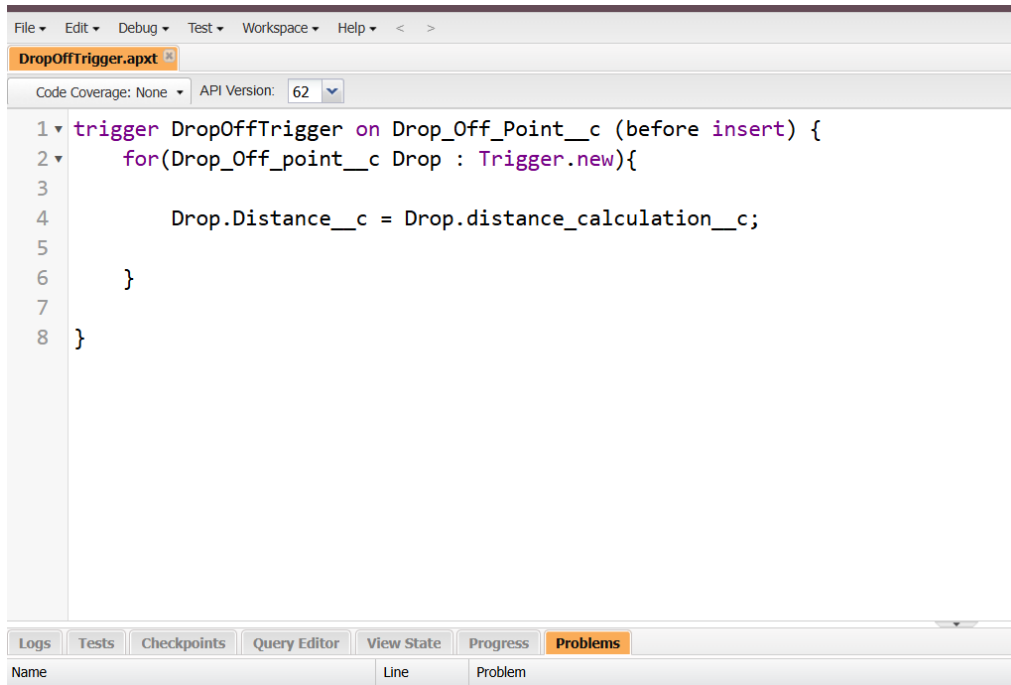
Create a Trigger

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

6. Click on Submit.



6. Vedio Demonstation

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

- **GitHub Repository:** <https://github.com/Hyma274/Food-Connect>
- **Project DemoVideo:**

<https://drive.google.com/file/d/135rhJu1qmL9NCwcqkFJmy97gHbEI7nle/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.

7. 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.

