

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 to

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 :Hymavathi Maddela
- Email:22135a0515@gvpce.ac.i
- Role: Developer
- Company: GVPCE(A)
- Country: India
- Postal Code: 530048
- Username: hymavathi@xyz.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-off point, 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.

Setup Home Object Manager

SETUP New Custom Object

Custom Object Definition Edit Save Save & New Cancel

Custom Object Information

The singular and plural labels are used in tabs, page layouts, and reports.

Label Example: Account

Plural Label Example: Accounts

Starts with vowel sound ☐

The Object Name is used when referencing the object via the API.

Object Name Example: Account

Description

Context-Sensitive Help Setting ☒ Open the standard Salesforce.com Help & Training window ☐ Open a window using a Visualforce page

Content Name

Enter Record Name Label and Format

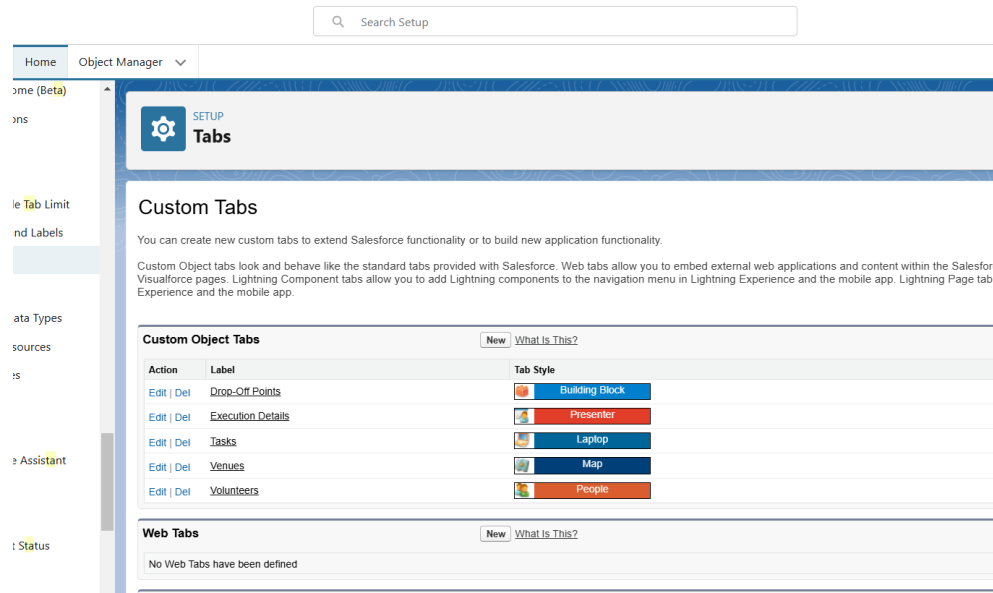
The Record Name appears in page layouts, key lists, related lists, lookups, and search results. For example, the Record Name for Account is "Account Name" and for Case it is "Case Number". Note that the Record Name field is always

Record Name Example: Account Name

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.

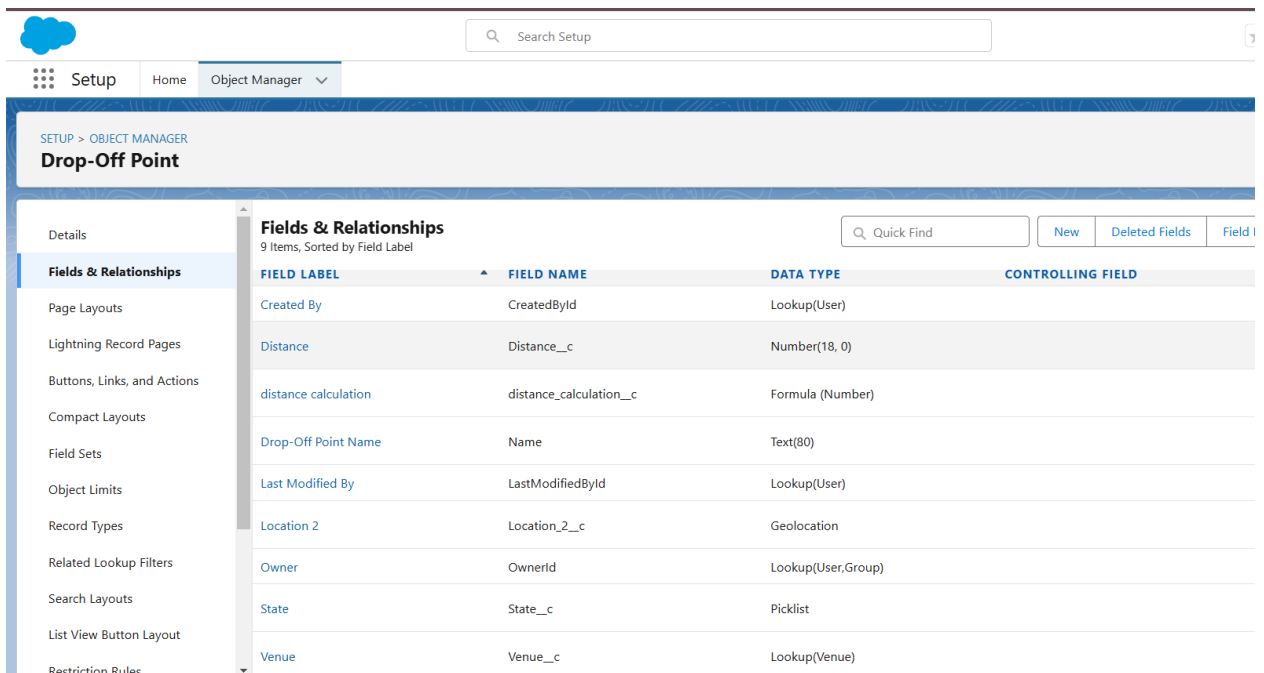
2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “Geolocation” and Click on Next
4. Fill the Above as following:

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.



SETUP > OBJECT MANAGER

Drop-Off Point

Details

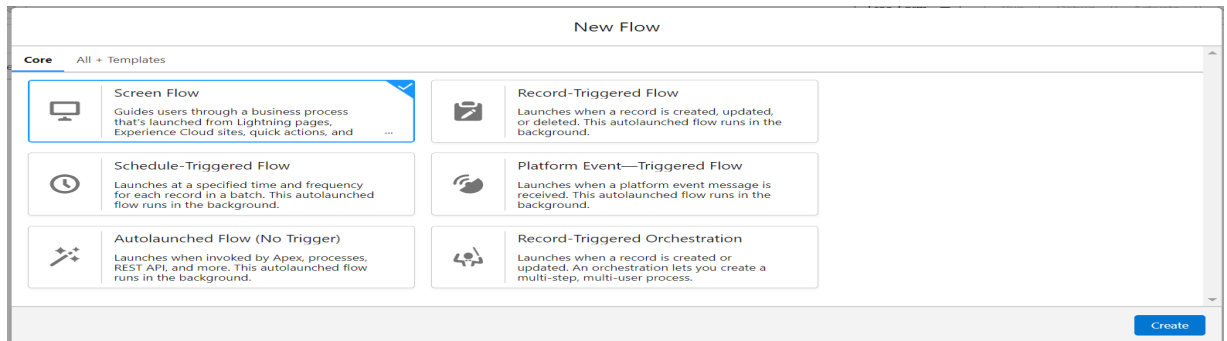
Fields & Relationships
9 Items, Sorted by Field Label

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD
Created By	CreatedById	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	LastModifiedById	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 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.
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:

Create a Record of This Object

* Object
Venue

Set Field Values for the Venue

Field Contact_Email__c	←	Value Contact_Email > Value ×	✕
Field Contact_Phone__c	←	Value Contact_Phone > Value ×	✕
Field Name	←	Value Venue_Name ×	✕
Field Venue_Location__c	←	Value 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 : 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.

The screenshot shows the 'User Edit' page in Salesforce. The page title is 'User Edit' and the user being edited is 'Iksha Foundation Iksha_Foundation'. The page has a 'SETUP Users' header and a 'Help for this Page' link. The 'General Information' section contains the following fields:

- First Name: Iksha Foundation
- Last Name: Iksha_Foundation
- Alias: iiksh
- Email: 22135a0515@gvpce.ac.in
- Username: hyma@xyz.com
- Nickname: User173002190807373593
- Title: (empty)
- Company: (empty)
- Department: (empty)
- Division: (empty)
- Role: <None Specified>
- User License: Salesforce Platform
- Profile: NGOs Profile
- Active: ☒
- Marketing User: ☐
- Offline User: ☐
- Knowledge User: ☐
- Flow User: ☐
- Service Cloud User: ☐
- Site.com Contributor User: ☐
- Site.com Publisher User: ☐
- WDC User: ☐
- Data.com User Type: -None--

Buttons at the top of the form are 'Save', 'Save & New', and 'Cancel'. A red bar at the bottom right indicates 'Required Information'.

User-2,User-3:

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

2. Give Different First Name, Last Name based on Different NGO's.

SETUP Users

User: **NSS NSS** [User Profile Help for this Page](#)

[Permissions Set Assignments](#) | [Permissions Set Assignments Activation Required](#) | [Permissions Set Group Assignments](#) | [Permissions Set License Assignments](#) | [Personal Groups](#) | [Public Groups](#) | [Queue Membership](#) | [Queue Membership](#) | [Teams](#) | [Managers in the Role Hierarchy](#) | [OAuth Apps](#) | [Third-Party Account Links](#) | [Installed Mobile Apps](#) | [Authentication Settings for External Systems](#) | [Login History](#) | [User Provisioning Accounts](#)

User Detail [Edit](#) [Sharing](#) [Reset Password](#) [Freeze](#) [View Summary](#)

Name	NSS NSS	Rule	
Alias	nss	User License	Salesforce Platform
Email	22135a0215@yvoce.ac.in Identify	Profile	NGO's Profile
Username	nss@yvoce.com	Active	<input checked="" type="checkbox"/>
Nickname	User17300221802265169032 Identify	Marketing User	<input type="checkbox"/>
Title		Offline User	<input type="checkbox"/>
Company		Knowledge User	<input type="checkbox"/>
Department		Flow User	<input type="checkbox"/>
Division		Service Cloud User	<input type="checkbox"/>
Address		Site.com Contributor User	<input type="checkbox"/>
Time Zone	(GMT+05:30) India Standard Time (Asia/Kolkata)	Site.com Publisher User	<input type="checkbox"/>
Locale	English (India)	WDC User	<input type="checkbox"/>
Language	English	Mobile Push Registrations	View
Delegated Approver		Data.com User Type	Identify
Manager		Accessibility Mode (Classic Only)	<input type="checkbox"/> Identify
Receive Approval Request Emails	Only if I am an approver	Debug Mode	<input type="checkbox"/> Identify

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.

REPORTS	Report Name	Description	Folder	Created By	Created On	Subscribed
Recent	Volunteer Task		Private Reports	Hymavathi Maddela	27/10/2024, 4:25 pm	
Created by Me	venue and Drop Off point		Custom Reports	Hymavathi Maddela	27/10/2024, 3:38 pm	
Private Reports	Sample Flow Report: Screen Flows	Which flows run, what's the status of each interview, and how long do users take to complete the screens?	Public Reports	Automated Process	27/10/2024, 7:51 am	
Public Reports						
All Reports						
FOLDERS						
All Folders						
Created by Me						

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:

FoodConnect Home Venues Tasks Drop-Off Points Execution Details Volunteers Reports Dashboards

Dashboard Task Execution Details

Last refreshed 1 day ago. Refresh this dashboard to see the latest data. As of 27-Oct-2024, 4:35 pm Viewing as Hymavathi Maddela

venue and Drop Off point

To view this table, refresh the dashboard.

Volunteer Task

We can't draw this chart because there is no data.

View Report

View Report (Volunteer Task)

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Sharing Rules:

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

Label : Rule 1

Rule Name : Rule_1

4. Select your rule type : Select Based on criteria.
5. Select which records to be shared:

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

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

Public Groups : Iksha

7. Click on Save.

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 With

Public Groups : Street Cause

17. Click on Save.

Sharing Settings

No sharing rules specified.

Work Type Sharing Rules [New] [Recalculate] [Work Type Sharing Rules Help ?](#)

No sharing rules specified.

Work Type Group Sharing Rules [New] [Recalculate] [Work Type Group Sharing Rules Help ?](#)

No sharing rules specified.

Drop-Off Point Sharing Rules [New] [Recalculate] [Drop-Off Point Sharing Rules Help ?](#)

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:

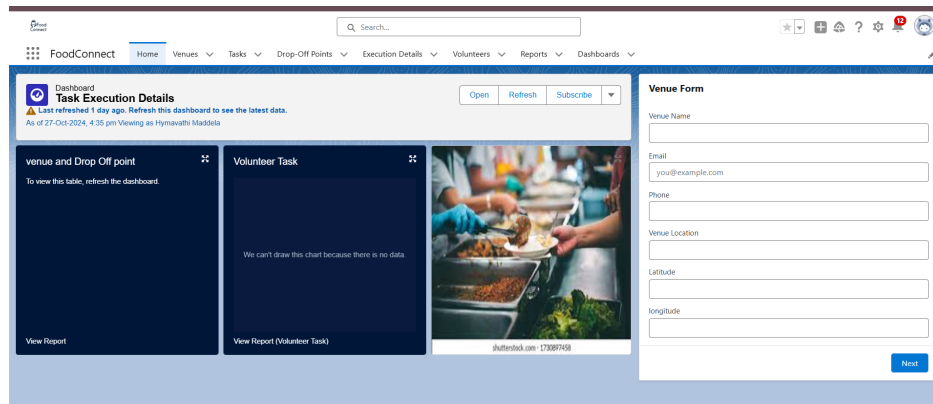
Flow : Venue Flow

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.

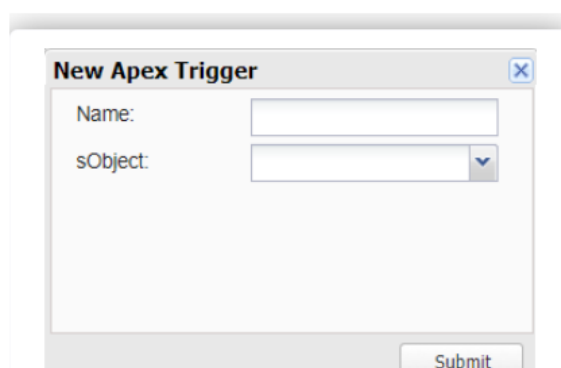
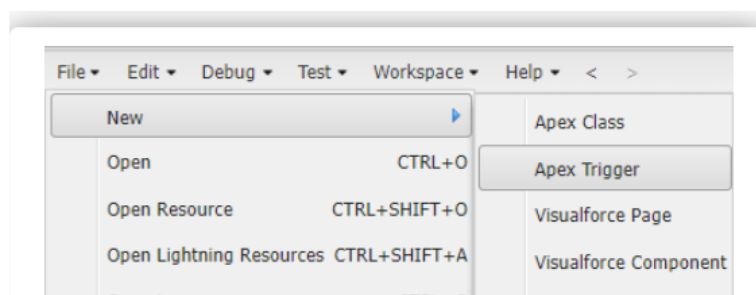
9. FoodConnect Home Page would Look Like this.

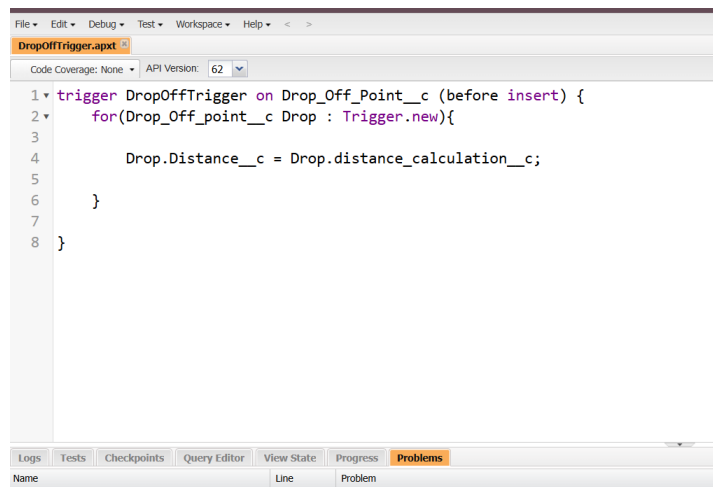


5. Testing and Validation

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 : DropOffTrigger
sObject: 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.