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 DeveloperSetup 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.

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.
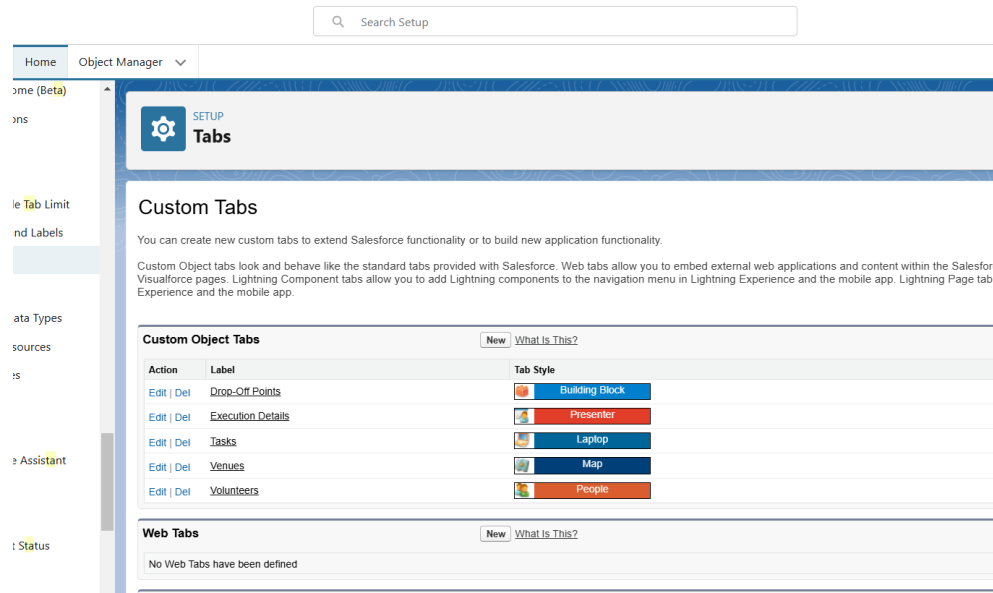
Creation of fields for the objects

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.
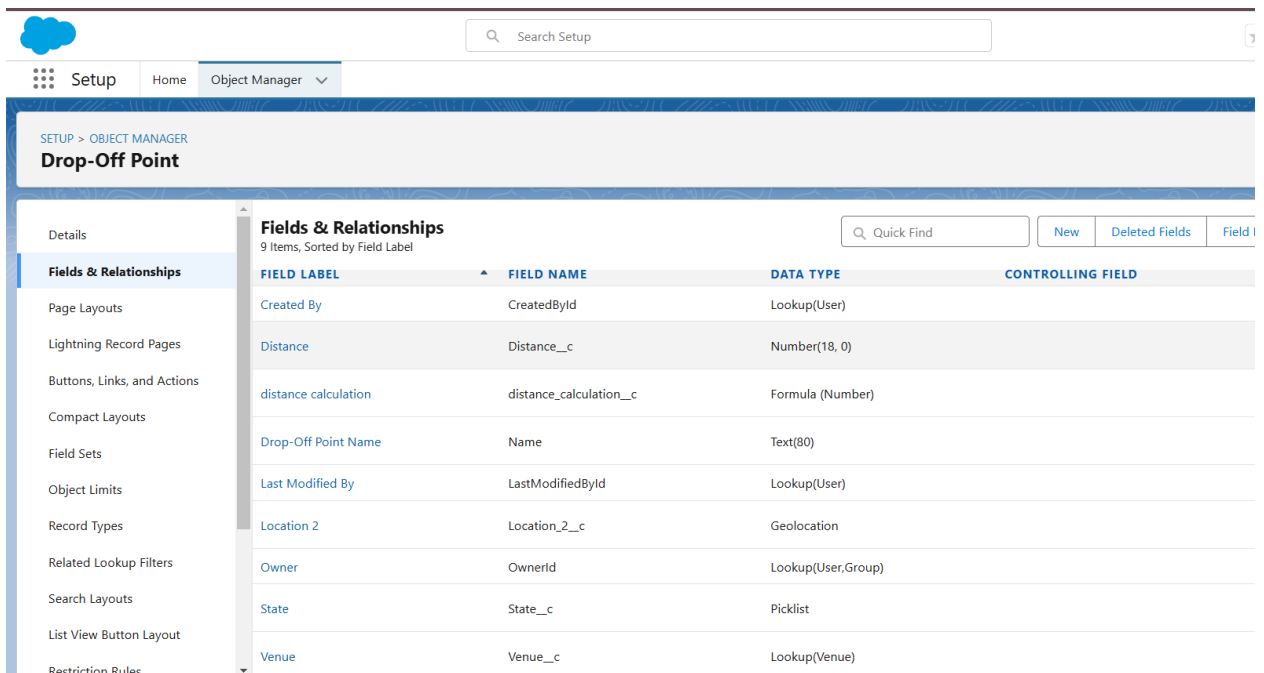
2. Now click on "Fields & Relationships" >> New

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.

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.
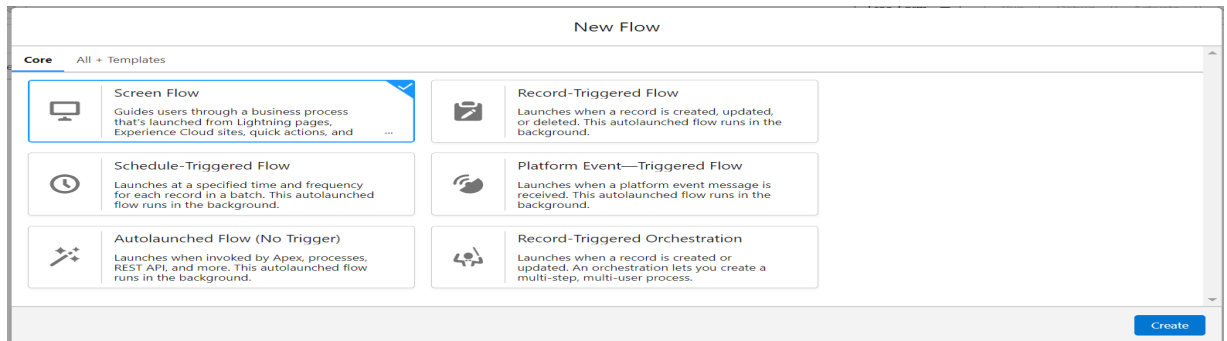
3. Click on the '+' icon in between start and end, and click on screen element.

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:

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.

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.

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 : 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.

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..
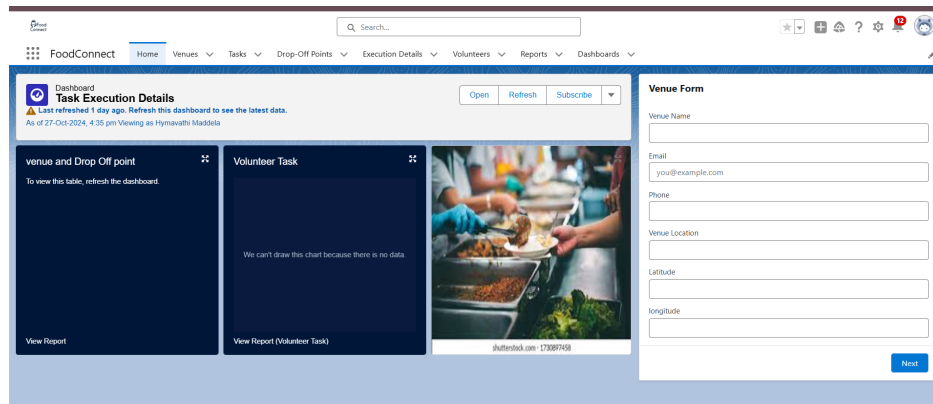
5. On the right hand side:

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.

```
File ▾   Edit ▾   Debug ▾   Test ▾   Workspace ▾   Help ▾   <   >
DropOffTrigger.apxt ×
Code Coverage: None ▾   API Version:   62 ▾

1 ▾  trigger DropOffTrigger on Drop_Off_Point__c (before insert) {
2 ▾      for(Drop_Off_point__c Drop : Trigger.new){
3
4              Drop.Distance__c = Drop.distance_calculation__c;
5
6          }
7
8  }

Logs   Tests   Checkpoints   Query Editor   View State   Progress   Problems
Name                              Line      Problem
```
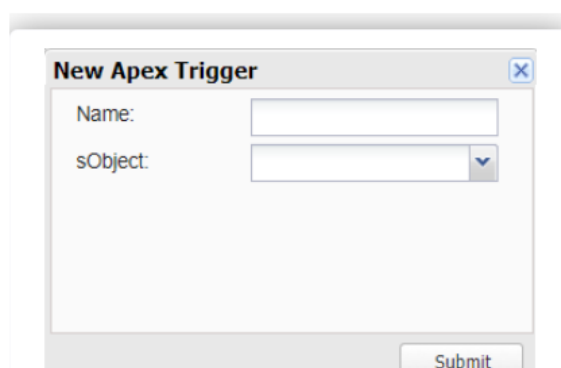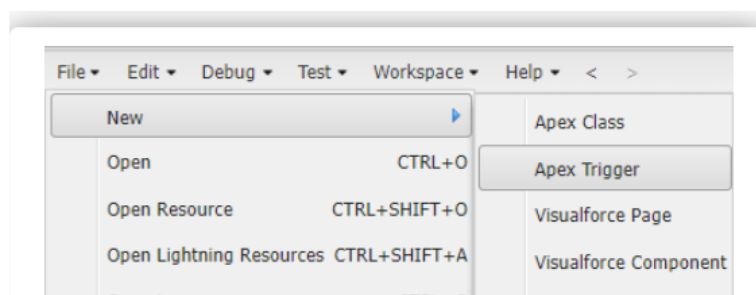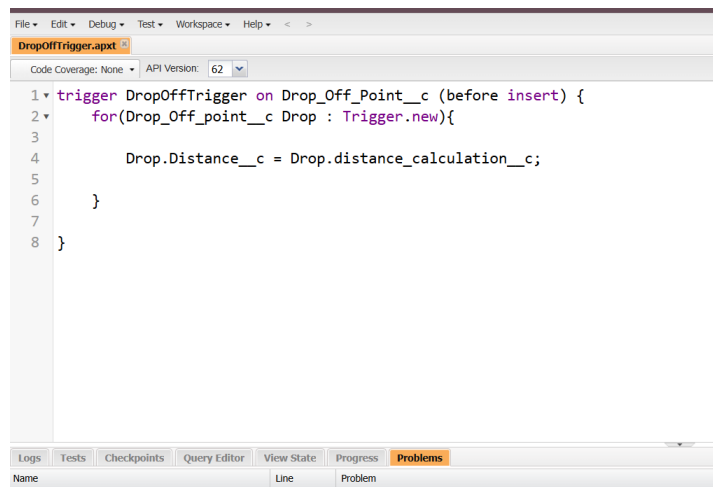
6.Vedio Demonstation

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.