TO SUPPLY LEFT OVER FOOD TO POOR

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1.Project Overview

This project is focused on addressing food wastage and hunger by creating an efficient system to supply leftover food to the poor. The primary goal is to minimize food waste and ensure that surplus food from restaurants, events, households, and other sources is safely collected, managed, and distributed to those in need.

By leveraging technology such as mobile apps, data analytics, and a well-organized logistics network, the project aims to create a seamless platform connecting food donors with distribution partners (e.g., NGOs, shelters, community centers). This initiative will enhance food accessibility for underserved communities, reduce environmental waste, and foster social responsibility among food providers.

Through this project, we strive to support the long-term vision of alleviating hunger, promoting sustainability, and building a more equitable society.

2. Objectives

Business Goals:

1. Reduce food waste by ensuring surplus food is redirected to those in need.

2. Establish partnerships with restaurants, supermarkets, event organizers, and households to source leftover food.

Specific Outcomes:

1. **Food Redistribution System:** Develop a user-friendly mobile app or platform to connect food donors with distribution organizations efficiently.

2. **Logistics and Delivery Network:** Set up a reliable logistics framework to collect and deliver leftover food promptly while ensuring food safety standards.

3. Salesforce Key Features and Concepts Utilized

To support the food redistribution initiative, the Salesforce platform will play a crucial role in managing operations, tracking donations, and fostering collaboration among stakeholders. The following key features and concepts will be utilized:

1. Sales Cloud

- **Donor Management:** Maintain detailed records of food donors, including restaurants, supermarkets, and households, for efficient tracking and engagement.

- **Lead and Opportunity Tracking:** Identify and convert potential donors into long-term contributors to the program.

2. Service Cloud

- **Support Case Management:** Handle inquiries or issues from donors and distribution partners promptly, ensuring smooth operations.

- **Knowledge Base:** Create a centralized repository of best practices, FAQs, and food safety guidelines for all users.

4. Detailed Steps to Solution Design

Creating Custom Object.

steps

1. From the setup page > Click on Object Manager > Click on Create > Click on Custom Object.

2. On Custom object defining page:

3. Enter the label name, plural label name, click on Allow reports, Allow search.

4. Click on Save.

Following the steps to create custom objects are venue, Drop-of point ,Task,

Volunteer and Execution Details
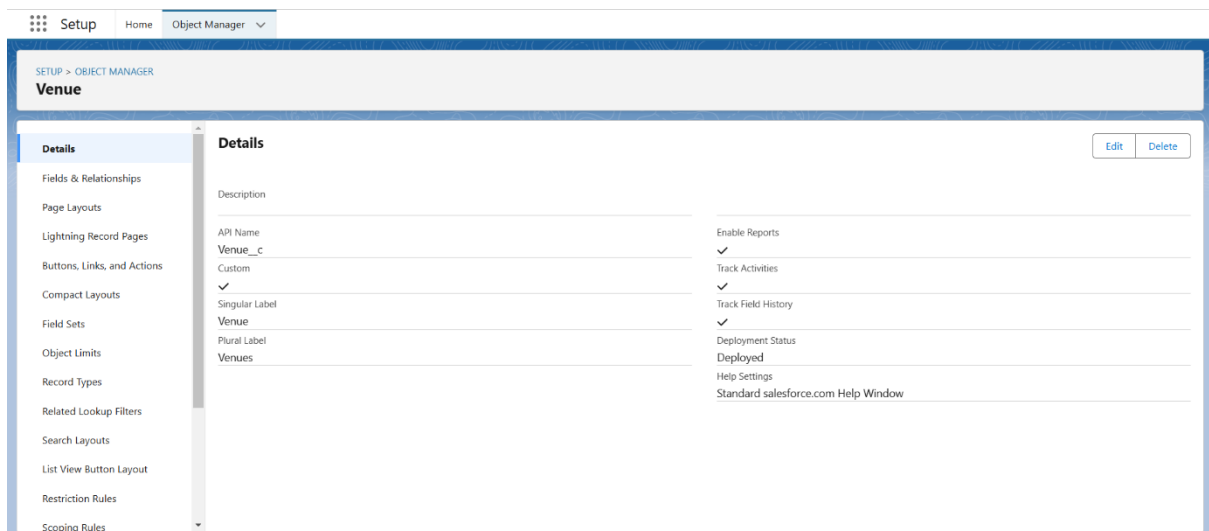
Fig: Venue Object

Tabs

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

Creating a Custom Tab

steps

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

2. 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 .

3. Make sure that the Append tab to users' existing personal customizations is checked.

4. Click save

5. Now create the Tabs for the remaining Objects, they are "Drop-Off Point, Task, Volunteer, Execution Details".

6. Follow the same steps as mentioned.
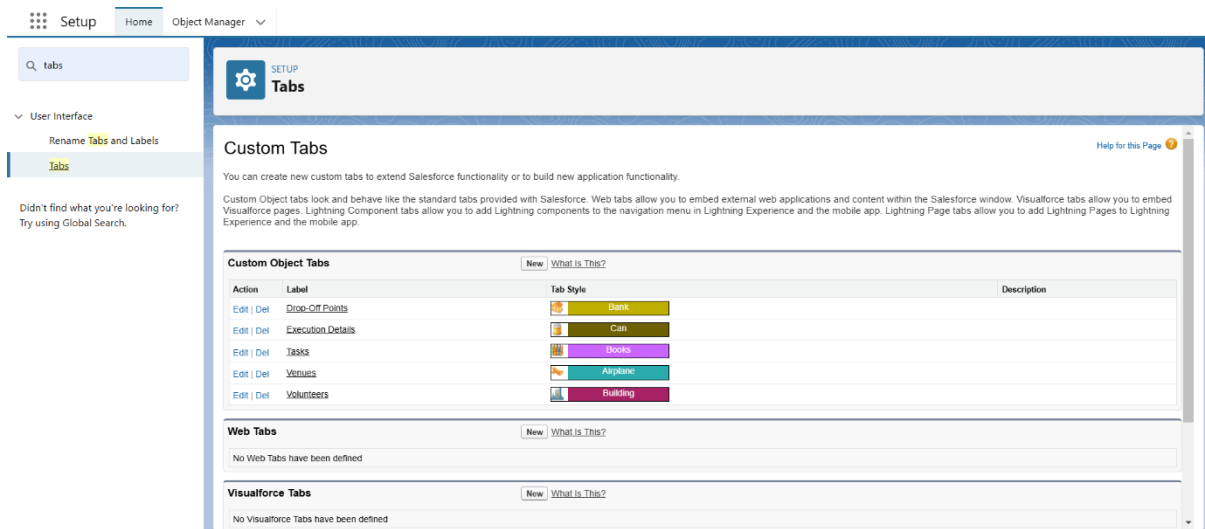
Fig: Custom Tabs

Create a 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.

Fig : Lightning App Foodconnect

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.

Fig : Lightning App Utility Items

6. To Add User Profiles: Search profiles (System administrator) in the search bar >> click on the arrow button >> save & finish.
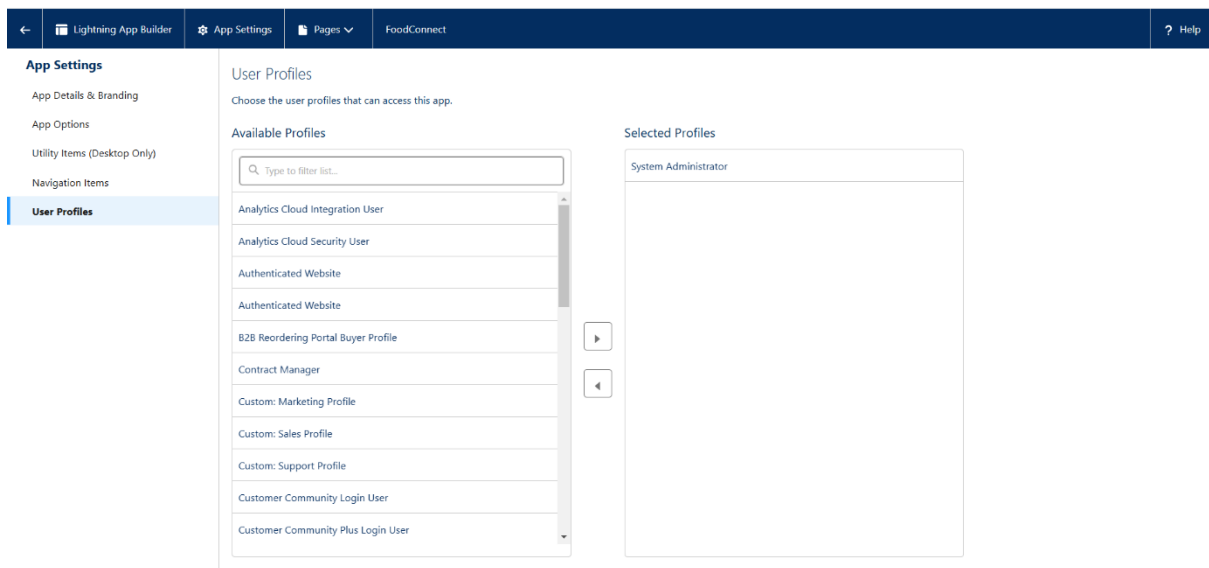
Fig : Lightning App System administrator

Fields

Creation of Relationship fields in objects
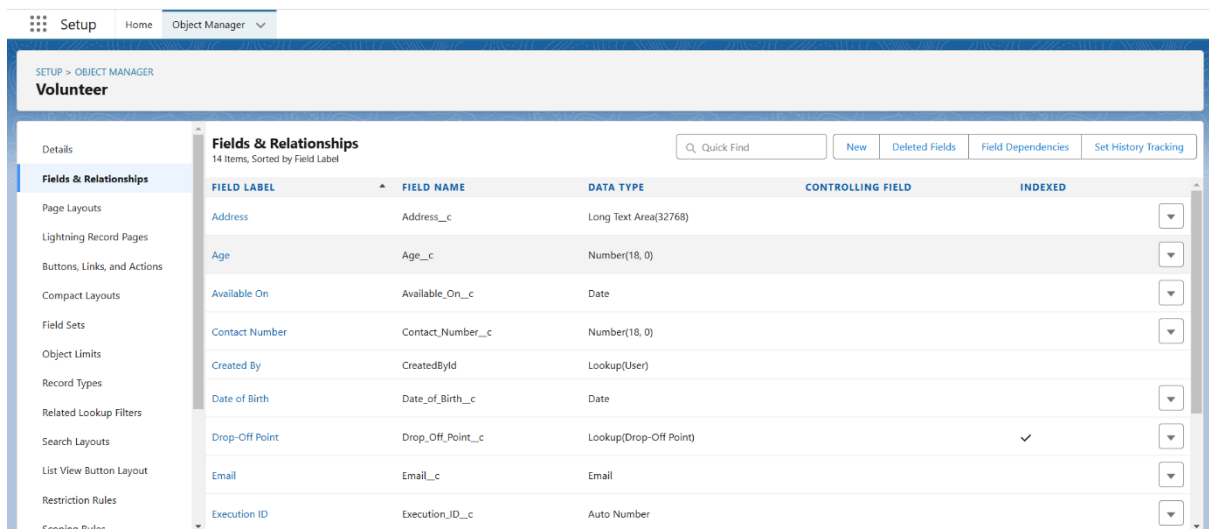
1. Creation of Relationship Field on Volunteer Object

Fig : Relationship Field on Volunteer Object
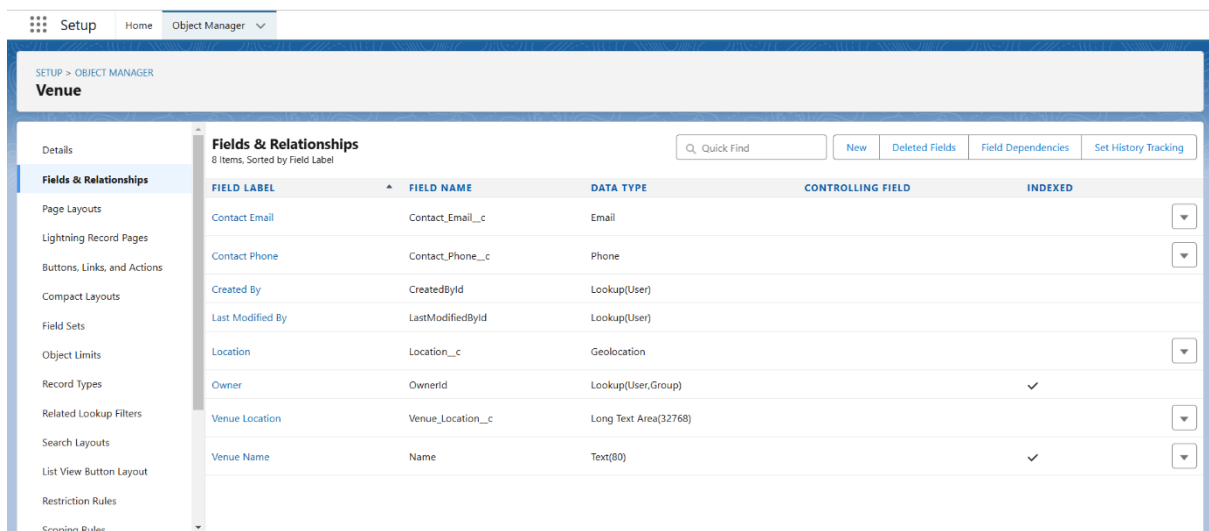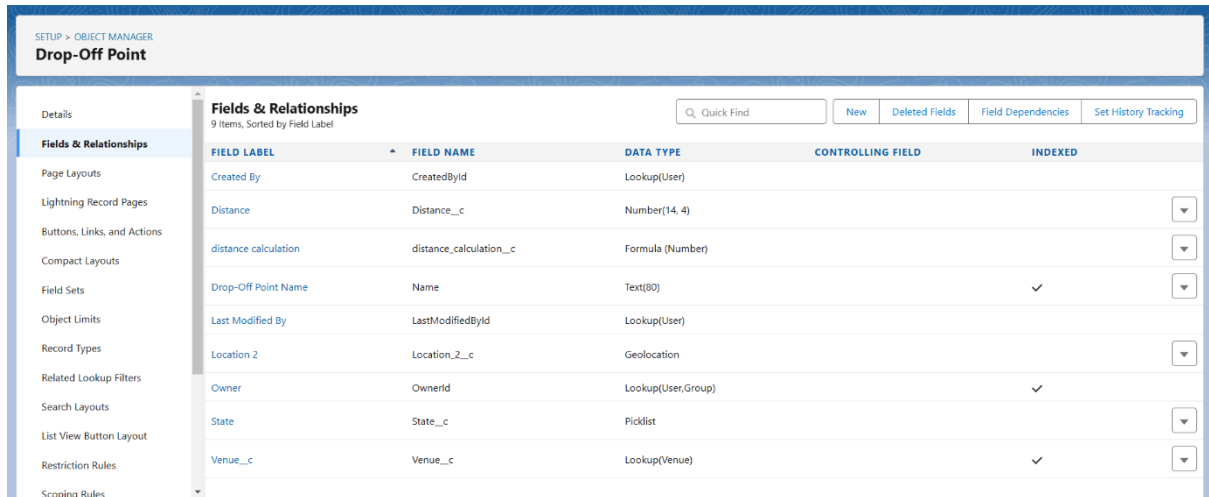
2. Creation of fields for the Venue object
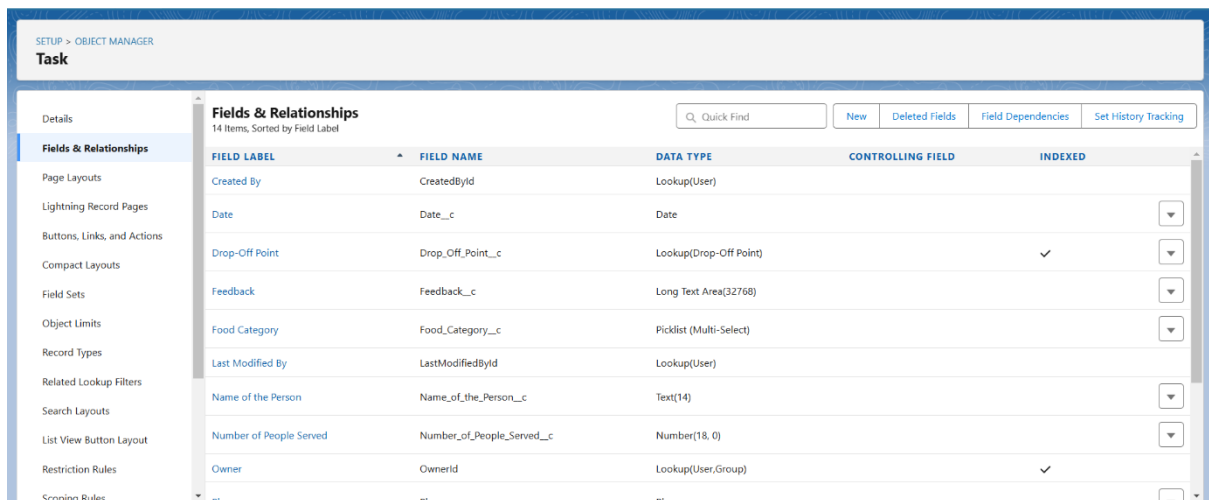
3. Creation of fields for the Drop-Off point object

Fig : Field on Drop-Off point Object
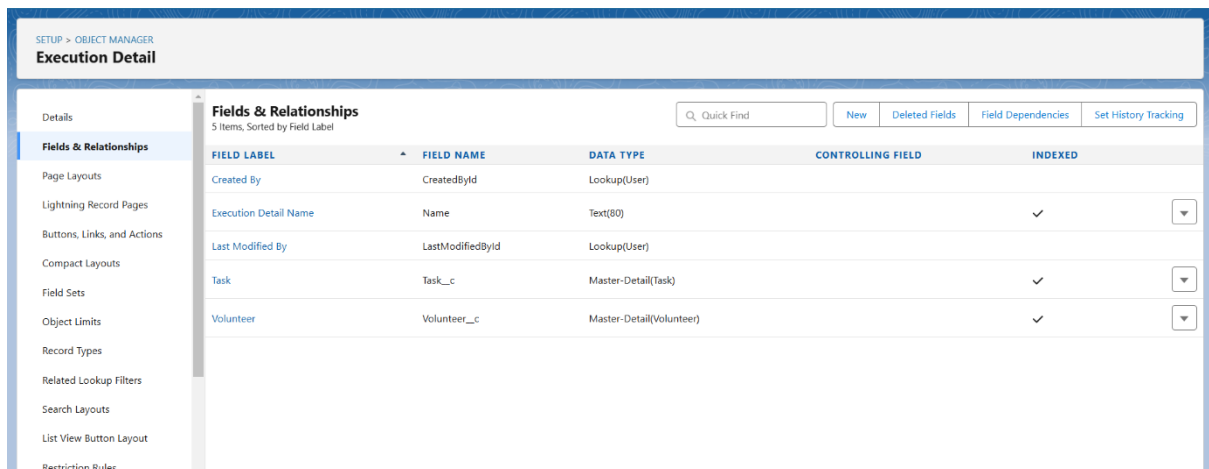
4. Creation of fields for the Task object

Fig : Field on Task Object

5. Creation of fields for the Execution Details object

Fig : Field on Execution Details Object

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:

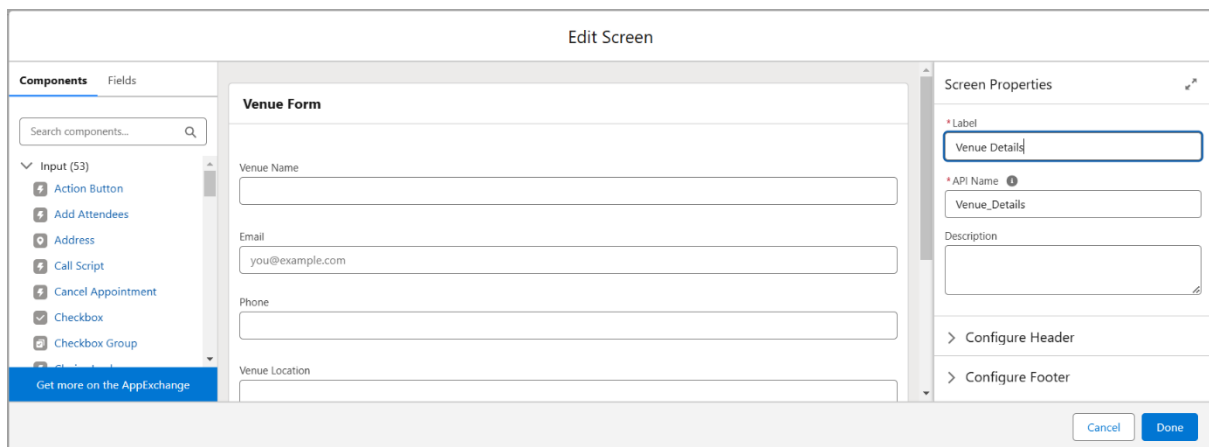Label : longitude

API Name : longitude

Fig: Screen Venue Details

11. Next click on Done. This would like below

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}

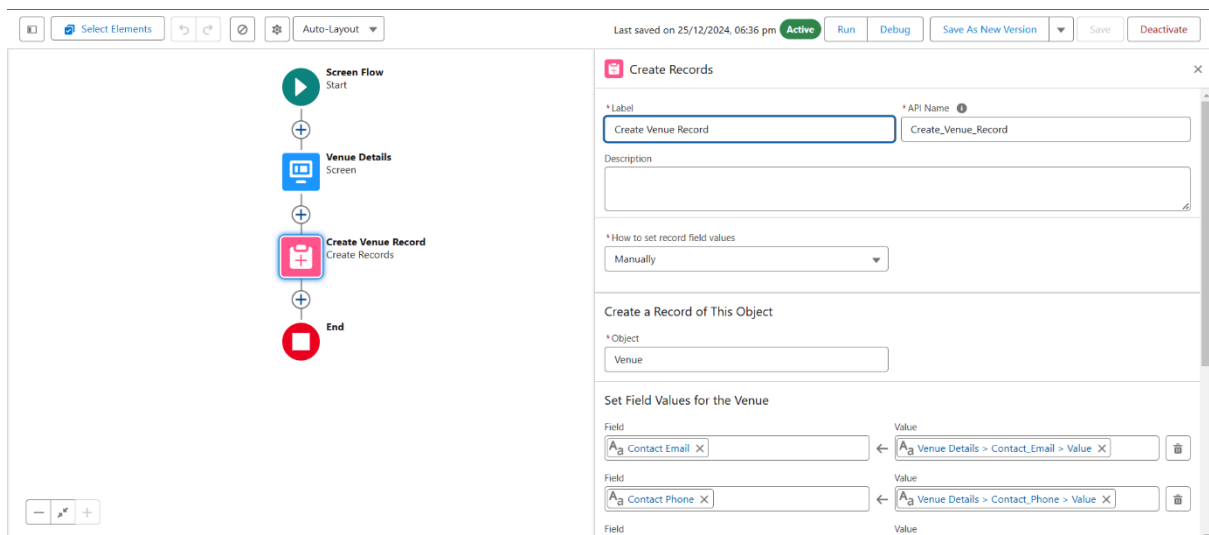Field : Value = Location__Longitude__s : {!longitude}

Fig : Venue record

14. This would look like:

15. Click on Save as:

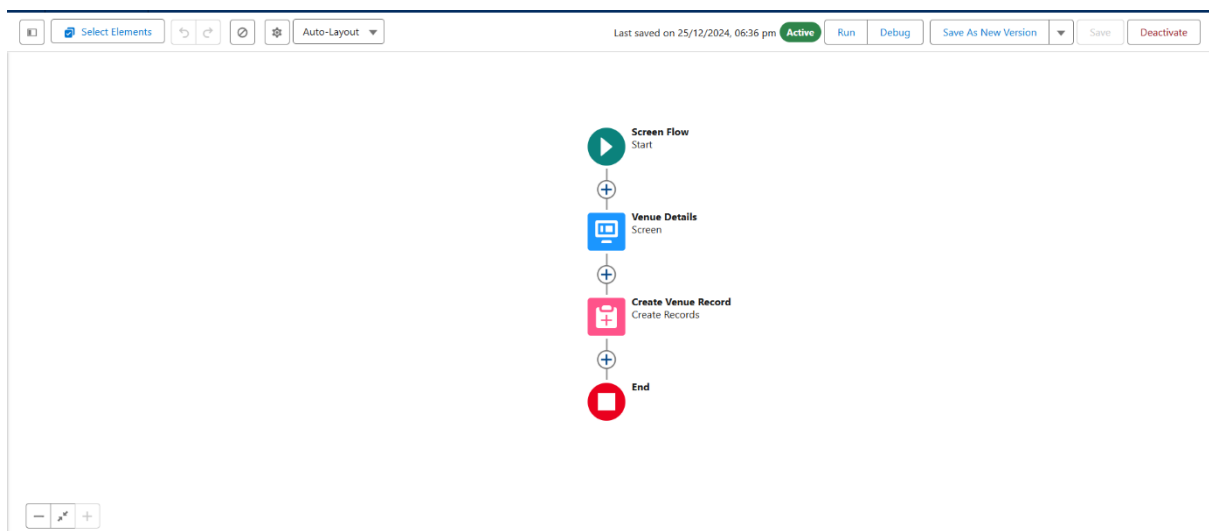Flow Label : Venue Form

Flow API Name : Venue_Form

Fig : Venue form flow

Trigger

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
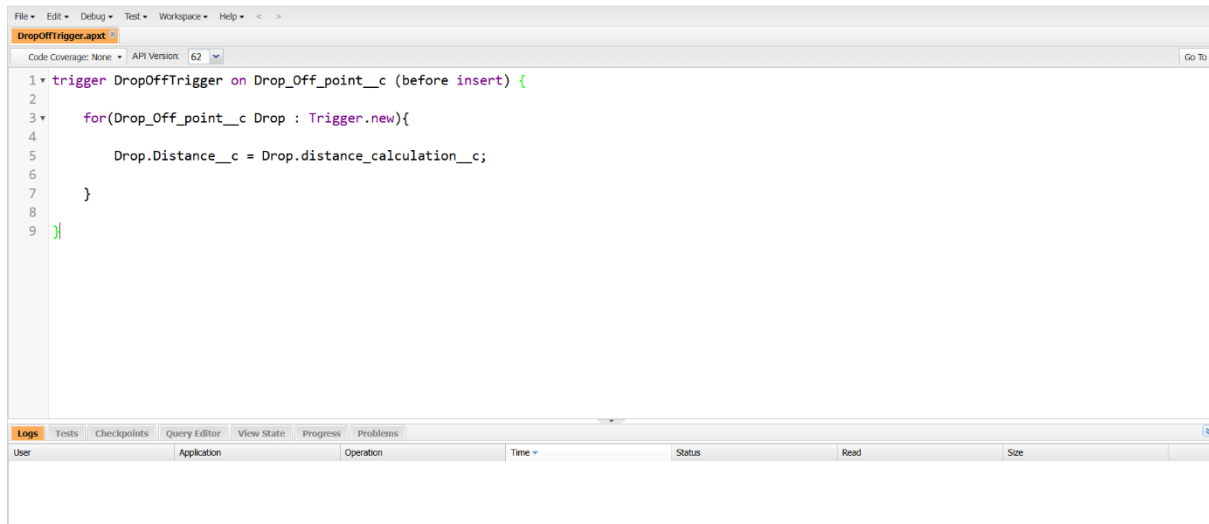
6. Click on Submit.


```
trigger DropOffTrigger on Drop_Off_point__c (before insert) {

    for(Drop_Off_point__c Drop : Trigger.new){

        Drop.Distance__c = Drop.distance_calculation__c;

    }

}
```

Fig :Trigger code

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.

4. Then click on Save

Creation of Users

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

Creation of User2, User3

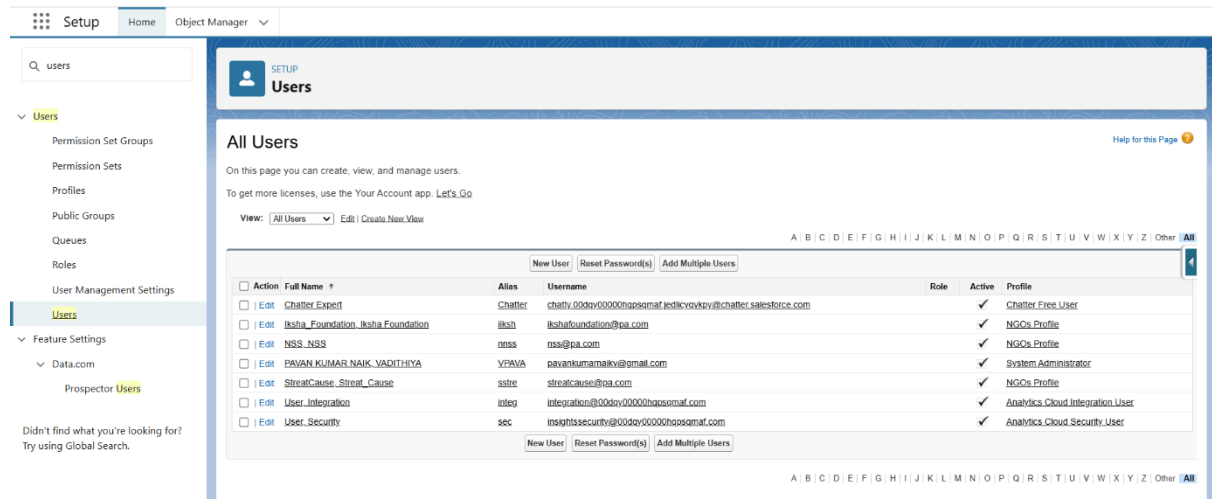user2:NSS

user3:Street Cause

Fig : Users

Creation of Public Group 1 & 2

1. Go to setup page >> type 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

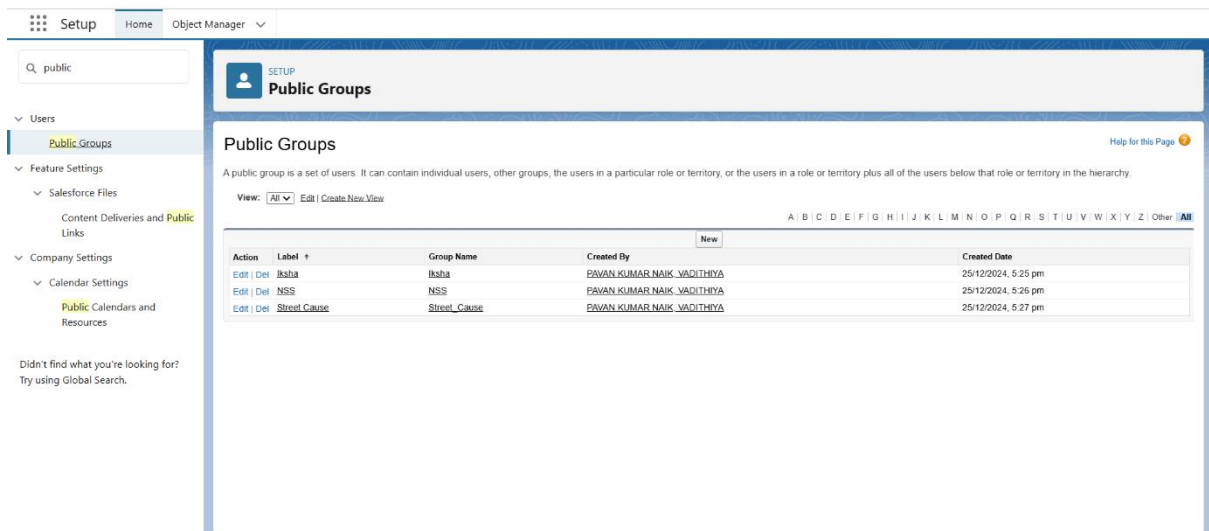3. In Search, Select Users.

4. In Selected Members Add Iksha Foundation and System Administrator

Fig :Public Group 1 & 2

Creation of Report Types   1

1. Go to setup page >> type 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.

Report Types   2

Report Type Label :Volunteers with Execution Details and Tasks

Report Type Name : Volunteers_with_Execution_Details_and_Tasks

Fig:Venue with DropOff with Volunteer

Fig:Volunteers with Execution Details and Tasks

Creation of Home Page

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.

Fig : Home Page FoodConnect

5. Implementation Project

Step1 : Filling Venue form to collect leftover food

Fig : Venue form details

Step 2: Filling New Task Details under venue Form

Fig : New Task Details

Fig :Task details added at Venue form

Step 3:Filling New Drop-Of Point details

New Drop-Off Point

Information

Drop-Off Point Name
Krishnapuram

Venue__c
Tea Triangle

Location 2

Latitude
14

Longitude
80

State
Andhra Pradesh

Distance
200.0000

Owner
VADITHIYA PAVAN KUMAR NAIK

Cancel   Save & New   Save

Fig : New Drop-Of Point details

Step 4:Filling New Volunteer details

New Volunteer

Information

Volunteer Name
Jagan

Drop-Off Point
Krishnapuram

Volunteer ID

Gender
Male

Available On
26/12/2024

Age
22

Email
jagan@gmail.com

Contact Number

Owner
VADITHIYA PAVAN KUMAR NAIK

Cancel   Save & New   Save

Fig :New Volunteer details

Step 5 : Filling New Execution Details

* = Required Information

Information

* Execution Detail Name

ABCD

* Volunteer

Jagan

* Task

Food

Cancel   Save & New   Save

Fig:New Execution Details

Step 6: Updated Home Page after filled all new details

Fig :Updated Home Page

6. Conclusion

The "FoodConnect" application represents a significant step toward addressing the dual challenges of food wastage and hunger by leveraging the power of the Salesforce platform. This innovative solution not only facilitates the efficient redistribution of surplus food to the underprivileged but also fosters a sense of community and social responsibility among donors.

By streamlining the donation process, providing real-time tracking, and offering insightful data reporting, the platform ensures transparency, efficiency, and accountability. Through its scalability and adaptability, FoodConnect has the potential to expand its reach, helping communities worldwide reduce food waste and support hunger relief efforts.

Ultimately, this project contributes to creating a sustainable and equitable system that aligns with global goals to combat hunger and promote sustainability, driving positive social and environmental impact for the long term.