

# To Supply Leftover Food to Poor

Category: Salesforce

Skills Required: Salesforce Developer

## 1. Project Overview

### 1.1 Project Objectives and Goals

**Objective:** This project aims to develop a Salesforce-based application designed to manage and streamline the distribution of leftover food to underserved communities. The primary goal is to enhance the efficiency of food drop-offs, coordinate tasks, manage volunteers, and generate insightful reports.

## 2. Detailed Description of Implemented Features

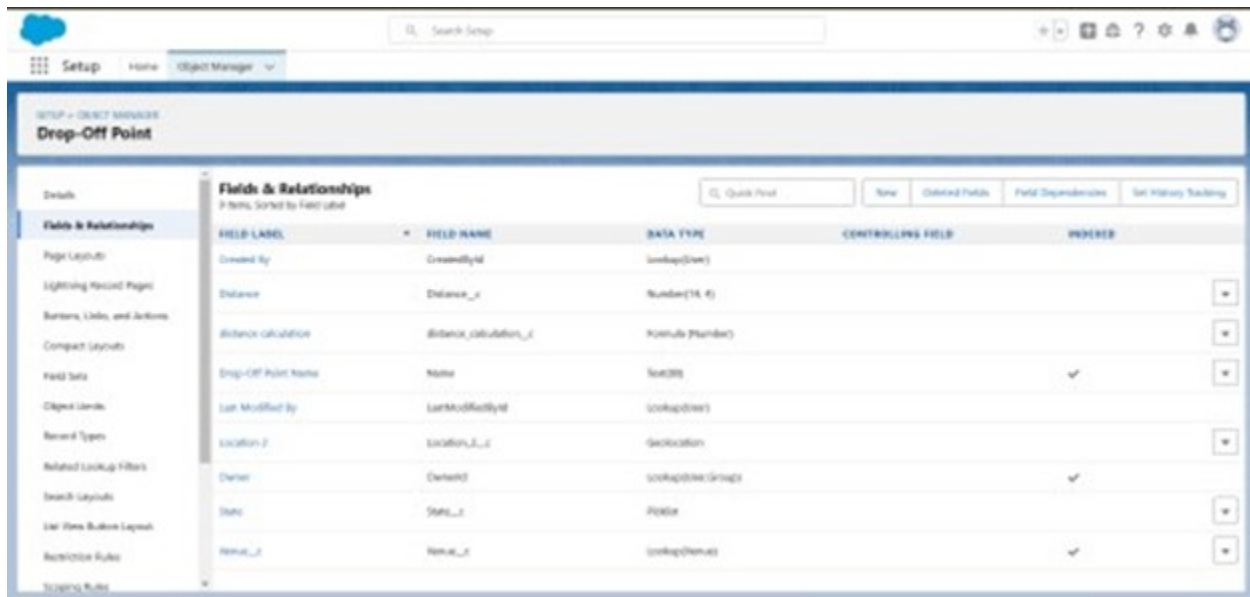
### 2.1 Custom Objects

#### 1. Drop-Off Point:

■ **Purpose:** The Drop-Off Point object captures essential details about locations where food is dropped off. This helps in tracking and managing food distribution points effectively.

■ **Fields:**

- **Drop-Off Point Name:** A text field representing the name of the drop-off point.
- **Location Details:** A text field for additional details about the drop-off point location.
- **Distance:** A number field that records the distance from the drop-off point to the delivery area.
- **Venue:** A lookup relationship field linking to the Venue object to provide a connection between drop-off points and venues.



Setup - OBJECT MANAGER

Drop-Off Point

Fields & Relationships

7 items, Sorted by Field Label

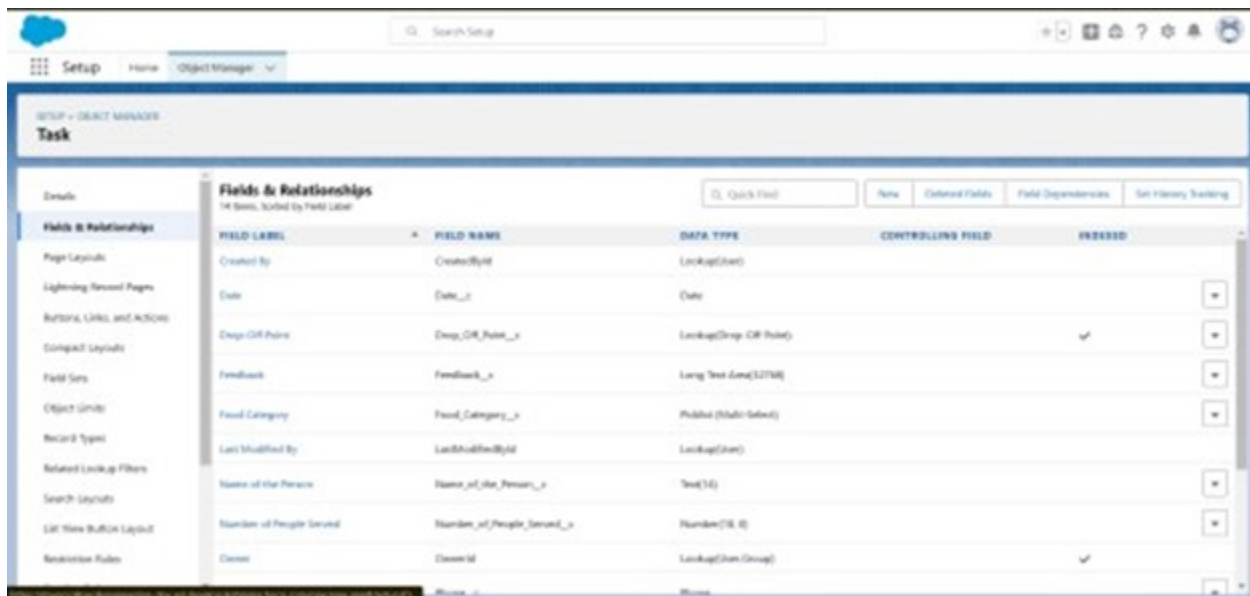
FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Distance	Distance__c	Number(16, 6)		
Distance calculation	DistanceCalculation__c	Formula (Number)		
Drop-Off Point Name	Name	Text(255)		✓
Last Modified By	LastModifiedById	Lookup(User)		
Location ID	Location_ID__c	Geolocation		
Owner	OwnerId	Lookup(Drop-Off Point Group)		✓
State	State__c	Picklist		
Status	Status__c	Lookup(Status)		✓

## 2. Task:

■ Purpose: The Task object is used to manage and track various tasks related to food distribution, including assigning tasks to volunteers and recording task details.

### ■ Fields:

- Task Name: A text field representing the name of the task.
- Date: A date field indicating when the task is scheduled or completed.
- Rating: A numeric field used to rate the task performance.
- Drop-Off Point: A lookup relationship field linking to the Drop-Off Point object to associate tasks with specific drop-off points.
- Sponsored By: A lookup relationship field linking to the Drop-Off Point object to indicate the sponsor of the task.



Setup - OBJECT MANAGER

Task

Fields & Relationships

14 items, Sorted by Field Label

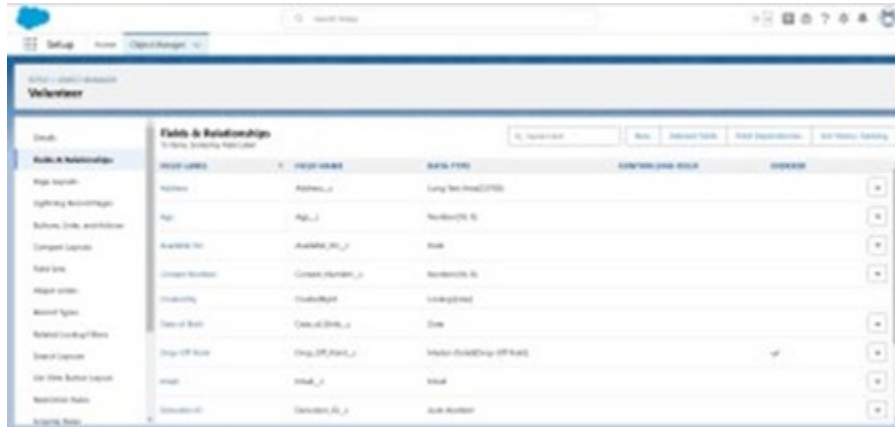
FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Date	Date__c	Date		
Drop-Off Point	Drop_Off_Point__c	Lookup(Drop-Off Point)		✓
Feedback	Feedback__c	Long Text Area (2708)		
Food Category	Food_Category__c	Picklist (Multi-Select)		
Last Modified By	LastModifiedById	Lookup(User)		
Name of the Person	Name_of_the_Person__c	Text(75)		
Number of People Served	Number_of_People_Served__c	Number(16, 6)		
Owner	OwnerId	Lookup(Drop-Off Point Group)		✓

### 3. Volunteer:

■ Purpose: The Volunteer object keeps track of individuals who are involved in the food distribution process, including their contact information and assigned tasks.

■ Fields:

- Volunteer Name: A text field for the name of the volunteer.
- Contact Email: An email field for the volunteer's contact email.
- Contact Phone: A phone field for the volunteer's contact number.
- Assigned Tasks: A related list showing tasks assigned to the volunteer.

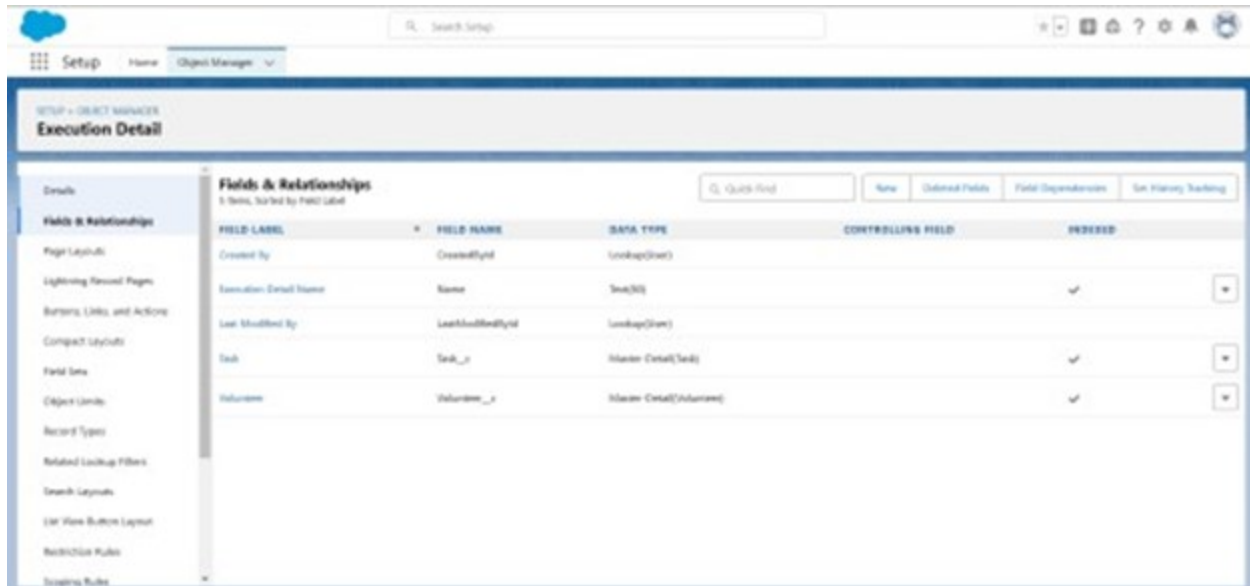


### 4. Execution Detail:

■ Purpose: The Execution Detail object captures detailed information about food distribution activities, including which volunteers and task are associated with each distribution.

■ Fields:

- Execution Detail Name: A text field for naming the execution detail record.
- Volunteer: A master-detail relationship field linking to the Volunteer object to associate execution details with a specific volunteer.
- Task: A master-detail relationship field linking to the Task object to associate execution details with a specific task.
- Details: A text field for additional information about the execution



## 2.2 Object Relationships

- Master-Detail Relationships:

- Execution Detail to Volunteer: Ensures that each execution detail record is linked to a volunteer, making volunteer information essential for each distribution record.

- Execution Detail to Task: Ensures that each execution detail record is linked to a task, making task information essential for each distribution record.

- Lookup Relationships:

- Task to Drop-Off Point: Connects tasks to drop-off points, providing context on where each task is executed.

- Task to Volunteer:

Connects tasks to volunteers, enabling tracking of which volunteer is responsible for each task.

- Drop-Off Point to Venue: Links drop-off points to venues, facilitating a detailed understanding of where food is being dropped off.

## 2.3 Sharing Rules

To ensure that records are shared appropriately based on distance criteria, the following sharing rules were set up:

- Rule 1:

- Label: Rule 1

- Criteria: Records where the distance is less than 15 km

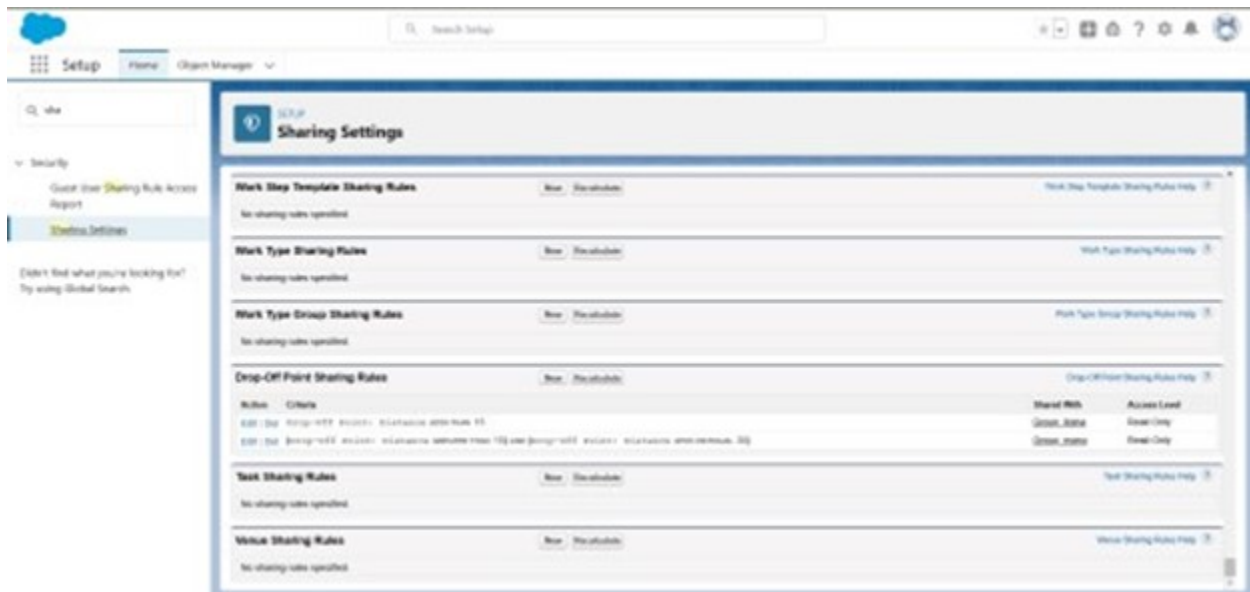
- Access: Shared with Public Group - Iksha

- Rule 2:

- Label: Rule 2

- Criteria: Records where the distance is between 15 km and 30 km

- Access: Shared with Public Group - NSS



## 2.4 Flow and Dashboard

### ● Flow: Venue Flow

■ Purpose: To manage and capture detailed information related to food drop-off points.

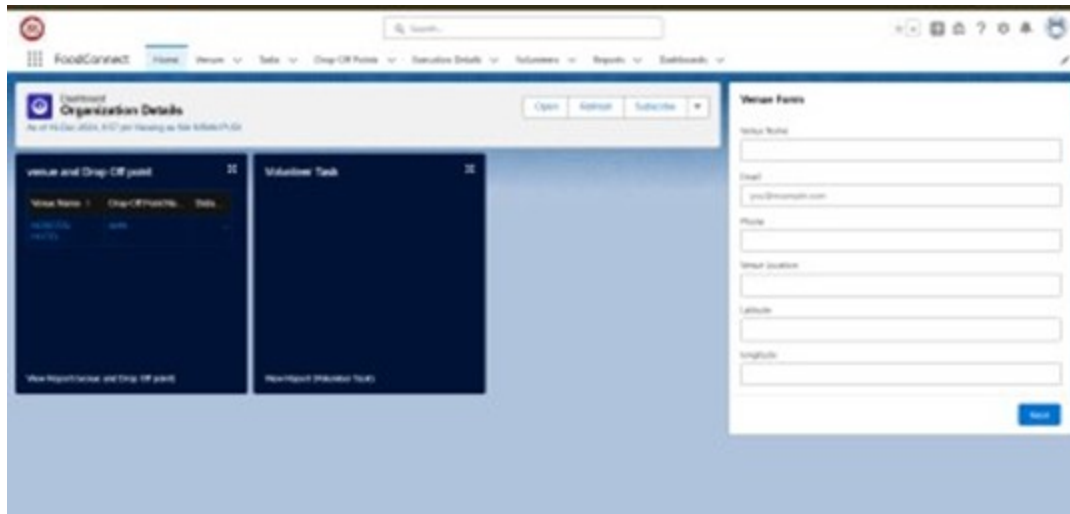
#### ■ Components:

- Text Component: For entering the venue name.
- Email Component: For entering the contact email of the venue.
- Phone Component: For entering the contact phone number of the venue.
- Text Component: For entering the venue location.
- Number Components: For entering latitude and longitude values of the venue.



### ● Dashboard:

- Name: Organization Details
- Components:
  - Lightning Table: Displays detailed information about venues and drop-off points, facilitating a comprehensive view of the data.



#### 1. Drop-Off Point:

- Navigate to Object Manager > Create > Custom Object.
- Enter details such as the label name, record name, and other settings for Drop Off Point.

#### 2. Task:

- Navigate to Object Manager > Create > Custom Object.
- Enter details such as the label name, record name, and other settings for Task.

#### 3. Volunteer:

- Navigate to Object Manager > Create > Custom Object.
- Enter details such as the label name, record name, and other settings for Volunteer.

#### 4. Execution Detail:

- Navigate to Object Manager > Create > Custom Object.
- Enter details such as the label name, record name, and other settings for Execution Detail.

### 3.2 Sharing Rules Setup

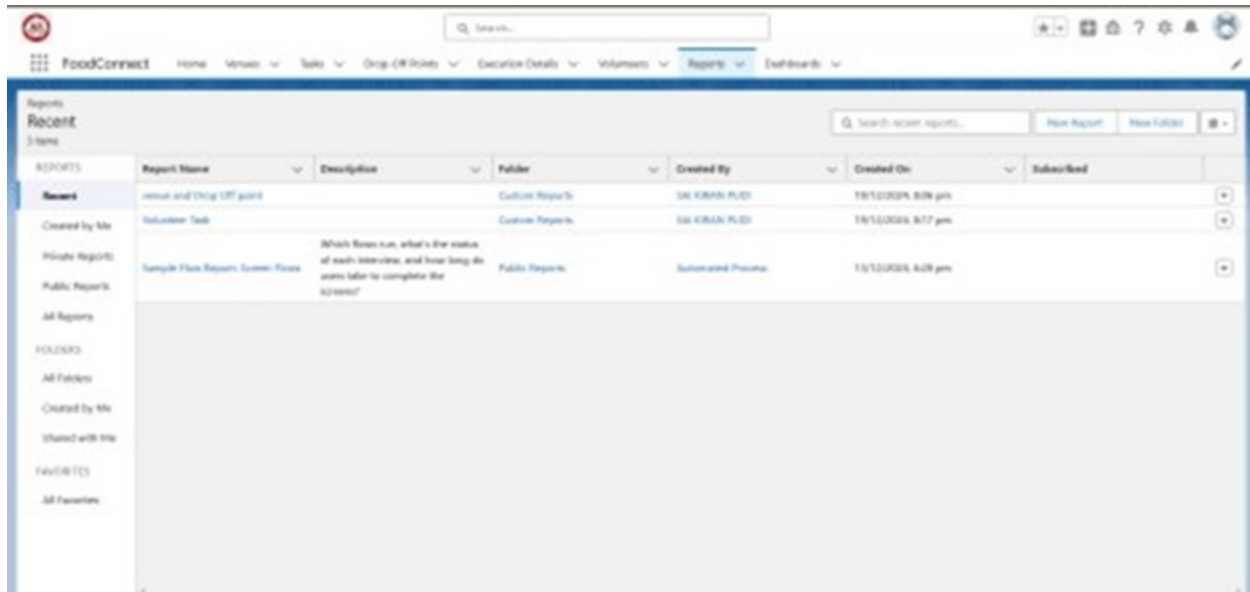
- Go to Sharing Settings.
  - Define new sharing rules for Drop-Off Point based on distance criteria, ensuring appropriate access for different public groups.

### 3.3 Lightning App Builder

#### 1. Create Home Page:

- Go to Lightning App Builder > New.
- Select Home Page and name it "HOME Page".

- Add Flow and Dashboard components to the page.
2. Save and Activate:
- Click on Save and Activation.
  - Set the page as the default for the FoodConnect app.



### 3.4 Report Types and Dashboards

#### 1. Custom Report Types:

- Create report types for Venue with Drop-Off with Volunteer and Volunteers with Execution Details and Tasks.

#### 2. Reports:

- Generate and configure reports using the custom report types to track and analyse relevant data.

#### 3. Dashboards:

- Configure dashboards to visualise data from reports and other components, providing insights into the overall distribution process.

#### 4. Deliverables

- Code Files: Include Apex triggers and any other code implemented.
- Output Screenshots: Provide screenshots of custom objects, flows, dashboards, and reports to illustrate the setup.
- Project Documentation: Detailed descriptions of implemented features, configurations, and setup instructions.
- Project Demonstration Video: A video showcasing the functionality of the application, including key features and processes.