

Project Title: 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

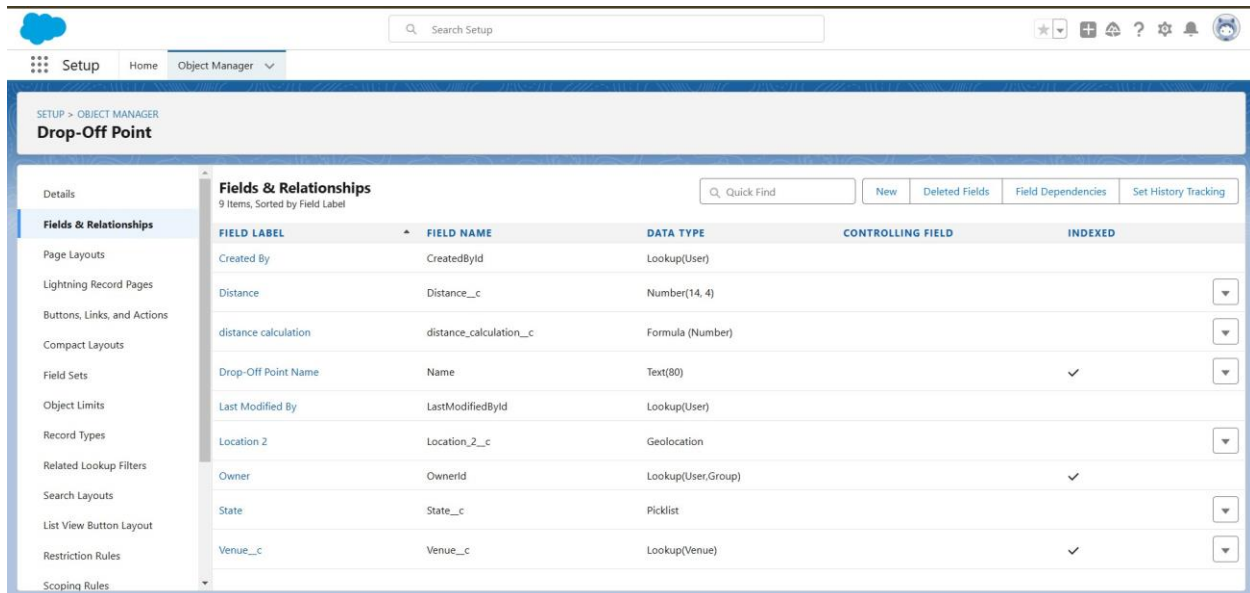
1. Drop-Off Point:

■ **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

Details

Fields & Relationships
9 Items, Sorted by Field Label

Q, Quick Find New Deleted Fields Field Dependencies Set History Tracking

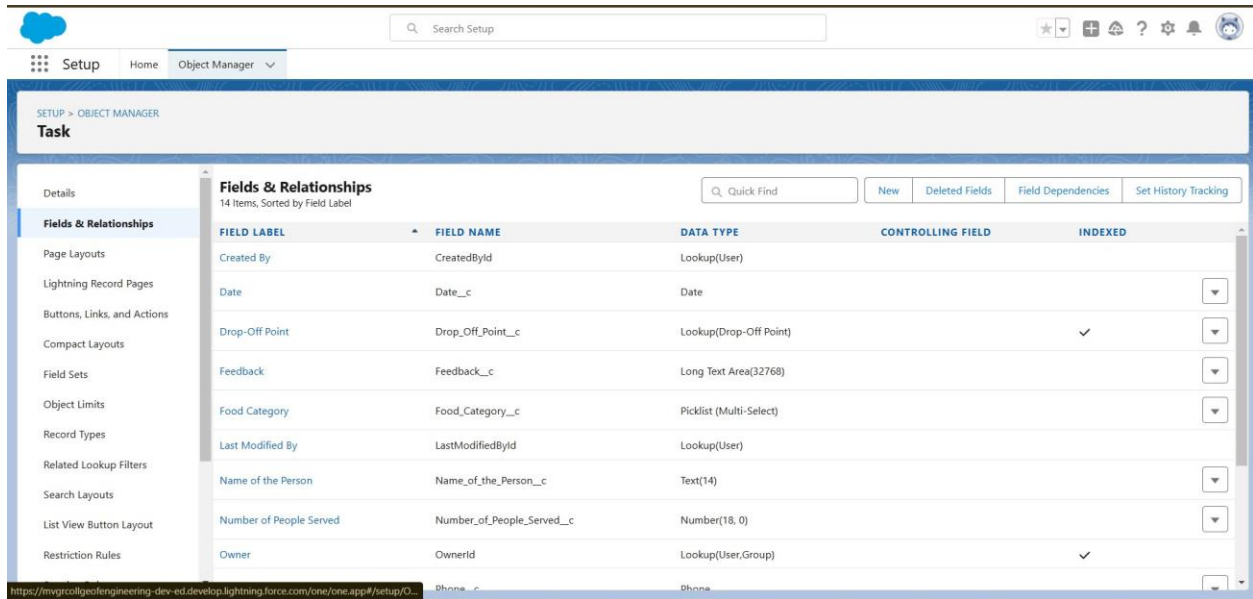
FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Distance	Distance__c	Number(14, 4)		
distance calculation	distance_calculation__c	Formula (Number)		
Drop-Off Point Name	Name	Text(80)		✓
Last Modified By	LastModifiedById	Lookup(User)		
Location 2	Location_2__c	Geolocation		
Owner	OwnerId	Lookup(User,Group)		✓
State	State__c	Picklist		
Venue__c	Venue__c	Lookup(Venue)		✓

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.

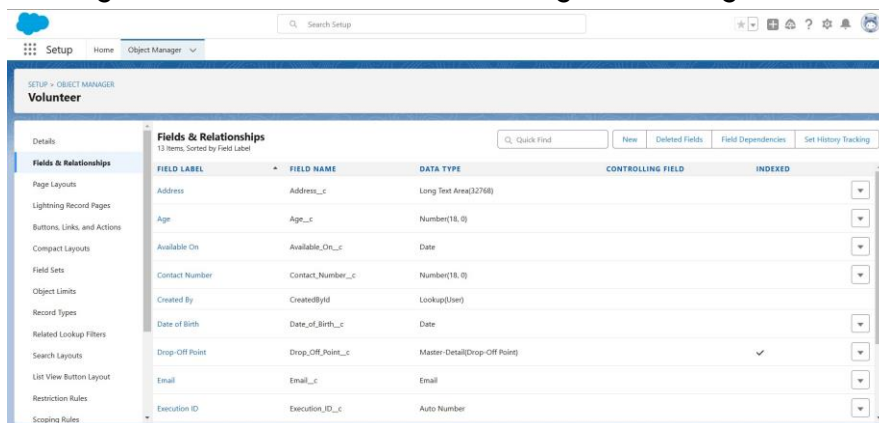


3. Volunteer:

■ **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.

The screenshot displays the Salesforce Setup interface for the 'Execution Detail' object. The left sidebar shows the navigation menu with 'Setup' selected. The main content area is titled 'SETUP > OBJECT MANAGER Execution Detail'. Below this, the 'Fields & Relationships' section is active, showing a list of fields and their relationships. The table below represents the data shown in the screenshot.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Execution Detail Name	Name	Text(80)		✓
Last Modified By	LastModifiedById	Lookup(User)		
Task	Task__c	Master-Detail(Task)		✓
Volunteer	Volunteer__c	Master-Detail(Volunteer)		✓

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:

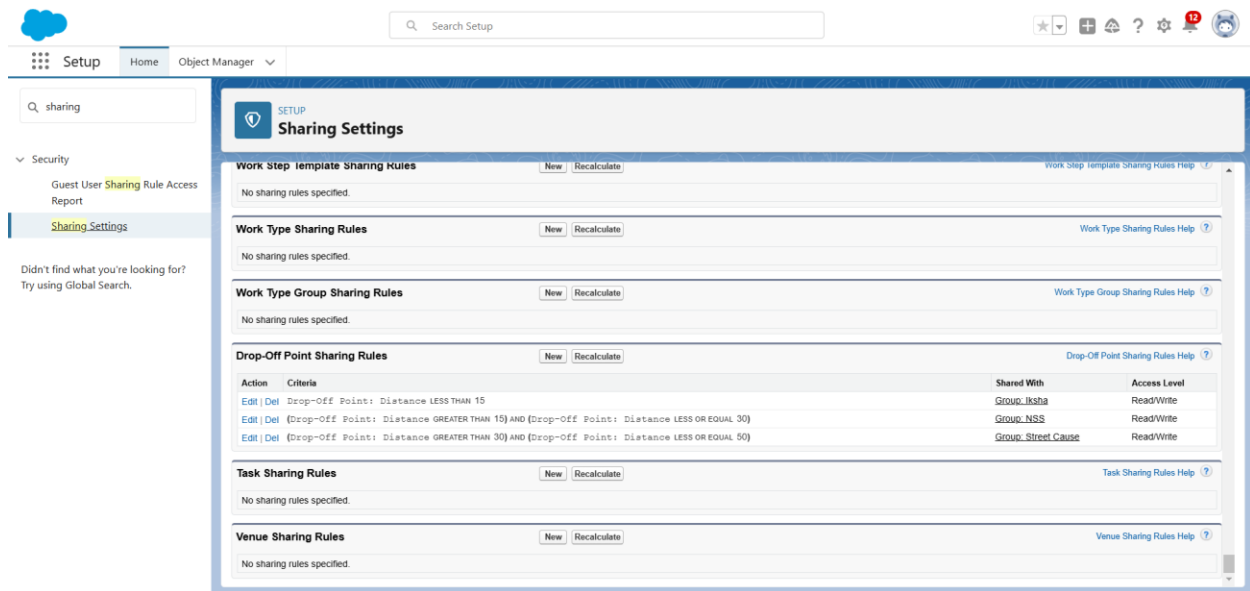
- Rule 1:

- Label: Rule 1

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

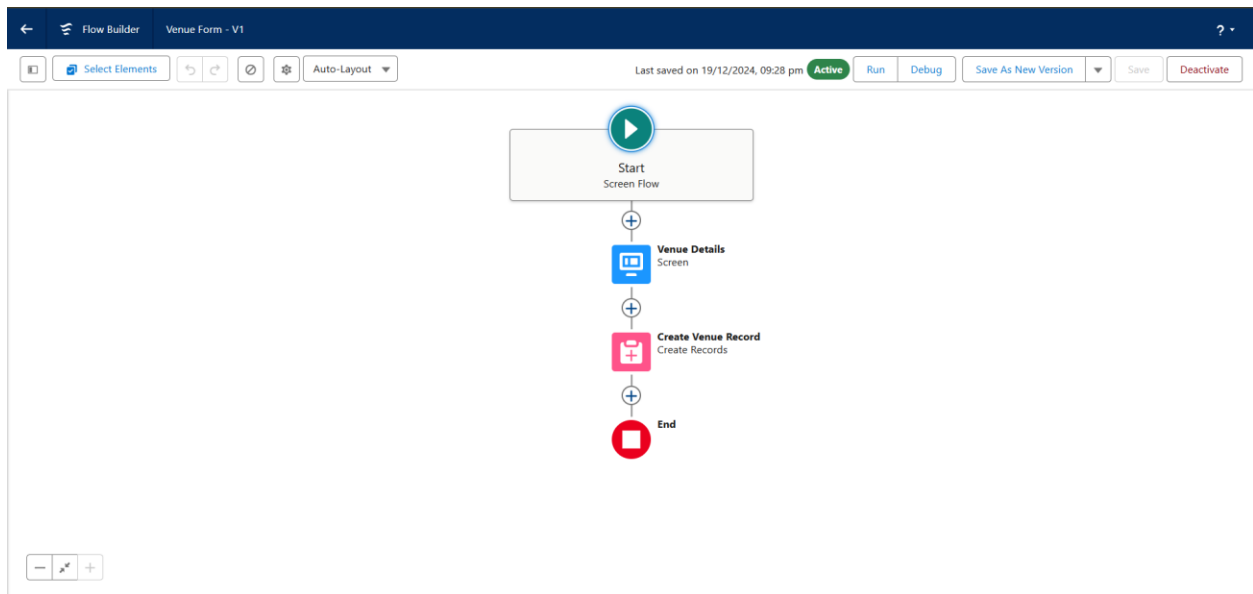
- Access: Shared with Public Group - Iksha

- 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.

The screenshot shows the FoodConnect dashboard. The top navigation bar includes a search bar and various icons. The main content area is divided into several sections:

- Organization Details:** A section with a title, a subtitle 'As of 05-Jan-2025, 1:02 pm-Viewing as Dharmana Karthik', and buttons for 'Open', 'Refresh', and 'Subscribe'.
- venue and Drop Off point:** A table displaying venue information.

Venue Name	Drop-Off Point Na...	Distance
Foundational trust	Kancharalapalem	2.3418k
magli	vizag	7.3289k
RaguTrust	eluru	6.9709k
saraFoundation	renugunta	652.4200
- Volunteer Task:** A line chart showing the record count for volunteer tasks. The x-axis is labeled 'Volunteer: Volunteer ID' with values 1 and 2. The y-axis is labeled 'Record Count' with values from 0 to 2. The data points are (1, 2) and (2, 1), connected by a line.

Volunteer: Volunteer ID	Record Count
1	2
2	1
- Venue Form:** A form for entering venue details.

Venue Name	saraFoundation
Email	saraf@hotmail.com
Phone	9588652243
Venue Location	vizag
Latitude	25
Longitude	36

3. Configuration and Setup Instructions

3.1 Creating Custom Objects

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.

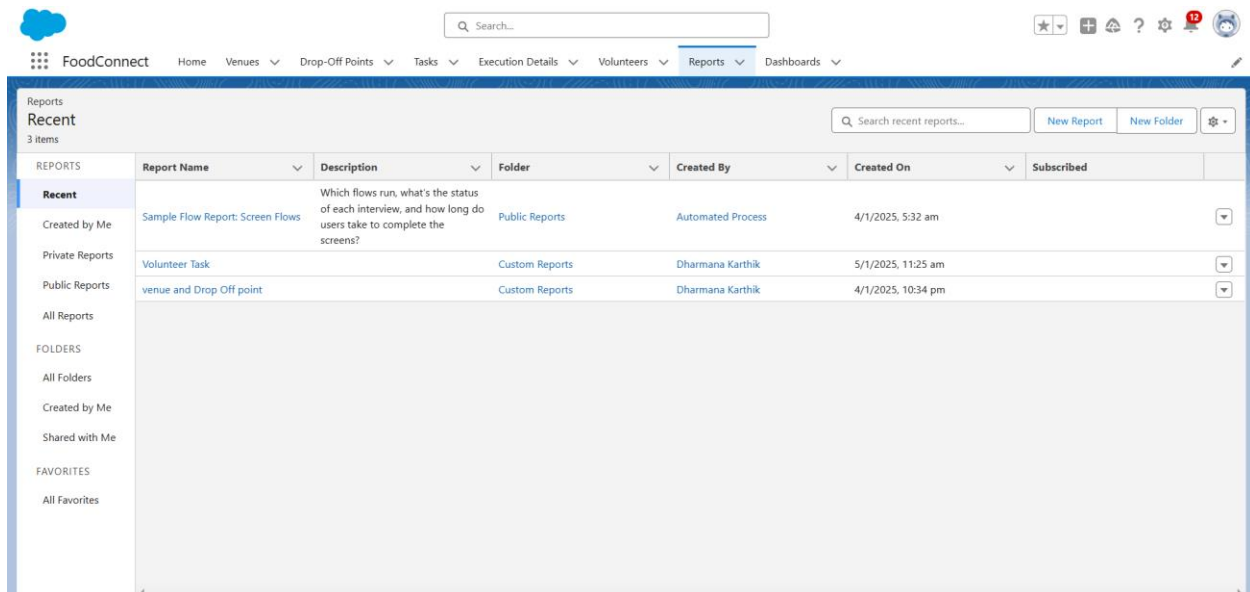
3.3 Lightning App Builder

1. Create Home Page:

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

analyze relevant data.

3. Dashboards:

- Configure dashboards to visualize 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.