

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

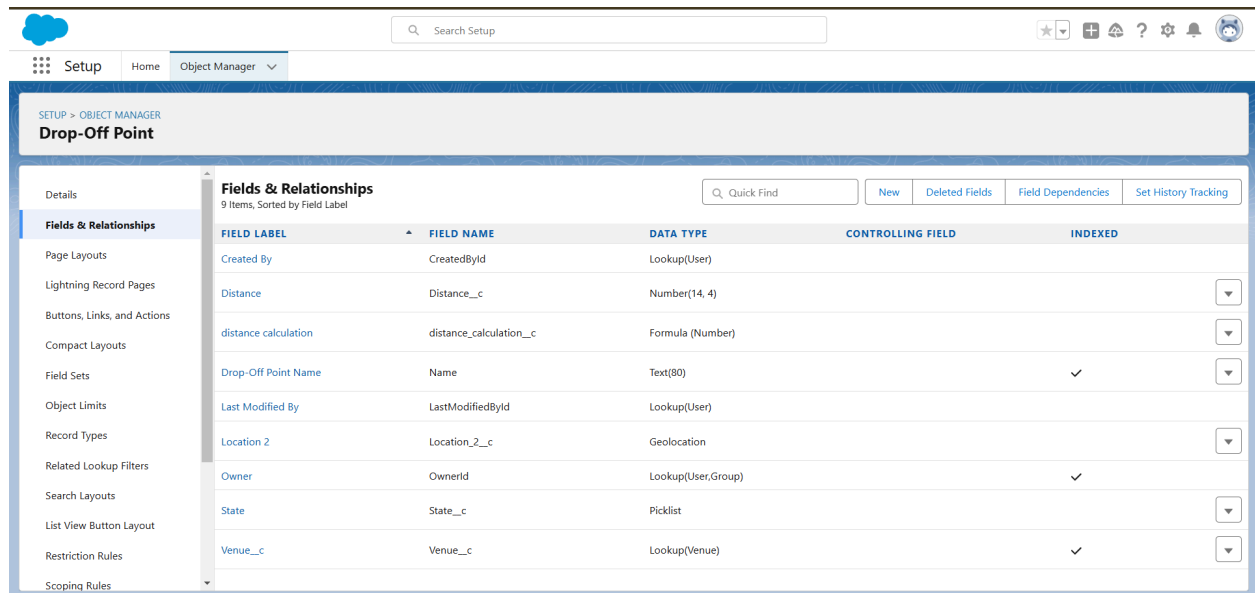
1. Drop-Off Point:

- **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.



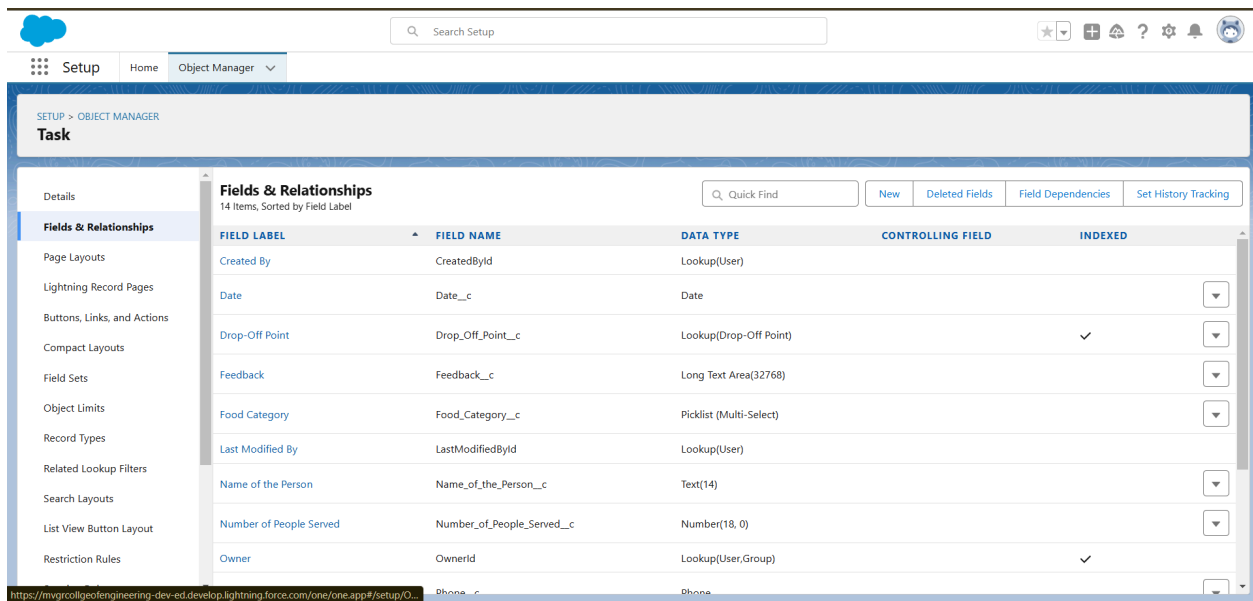
FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Distance	Distance__c	Number(14, 4)		
distance calculation	distance_calculation__c	Formula (Number)		
Drop-Off Point Name	Name	Text(80)		✓
Last Modified By	LastModifiedById	Lookup(User)		
Location 2	Location_2__c	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.

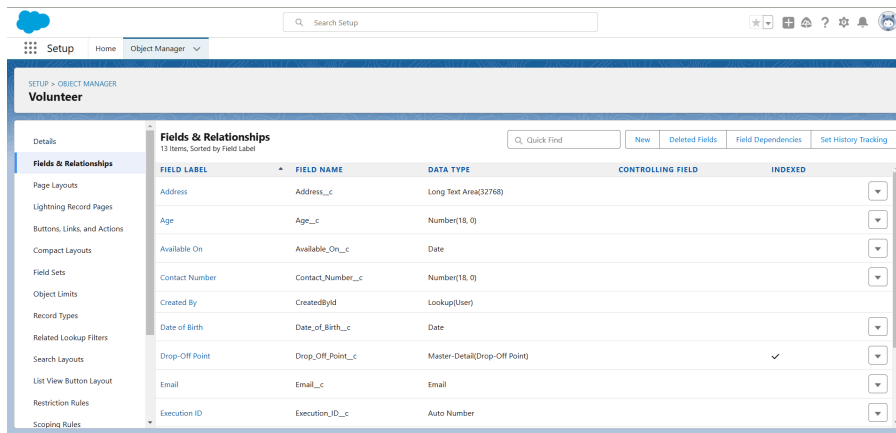


3. Volunteer:

■ **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 shows the Salesforce Setup interface. At the top, there's a navigation bar with 'Setup', 'Home', and 'Object Manager'. Below this, the 'Execution Detail' object is selected. The left sidebar contains a list of setup categories, with 'Fields & Relationships' highlighted. The main content area displays a table of fields for the 'Execution Detail' object. The table has columns for 'FIELD LABEL', 'FIELD NAME', 'DATA TYPE', 'CONTROLLING FIELD', and 'INDEXED'. There are five items listed: 'Created By', 'Execution Detail Name', 'Last Modified By', 'Task', and 'Volunteer'. Each row shows the field's name, its data type (e.g., Lookup, Text, Master-Detail), and whether it is indexed. The 'Task' and 'Volunteer' fields are master-detail relationships.

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:

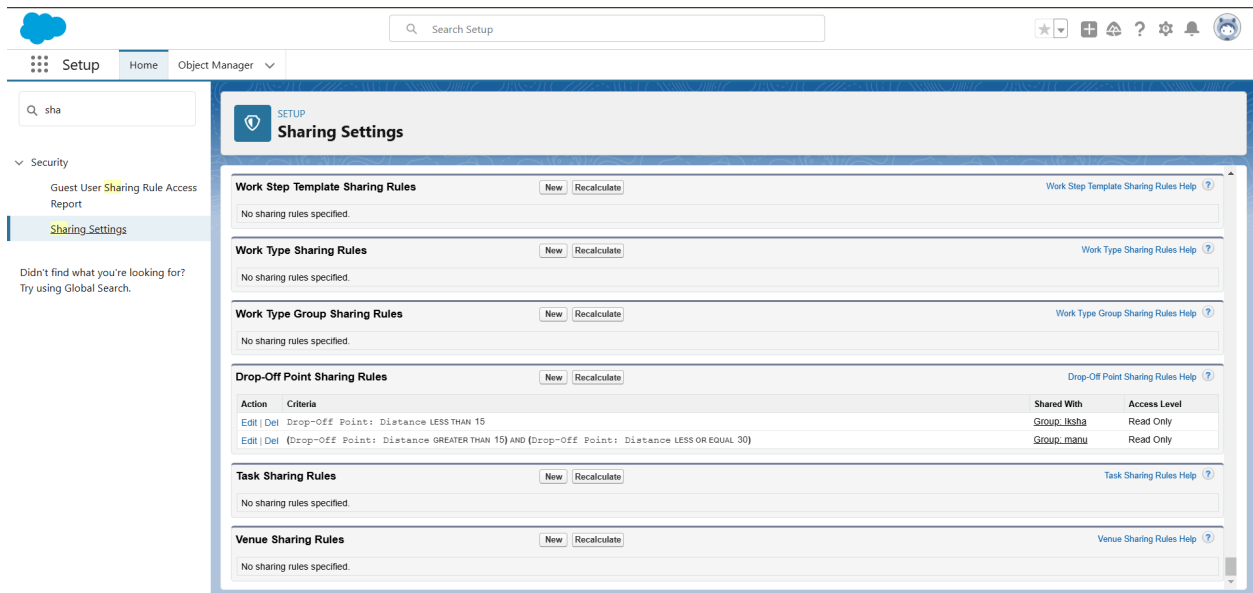
- Rule 1:

- Label: Rule 1

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

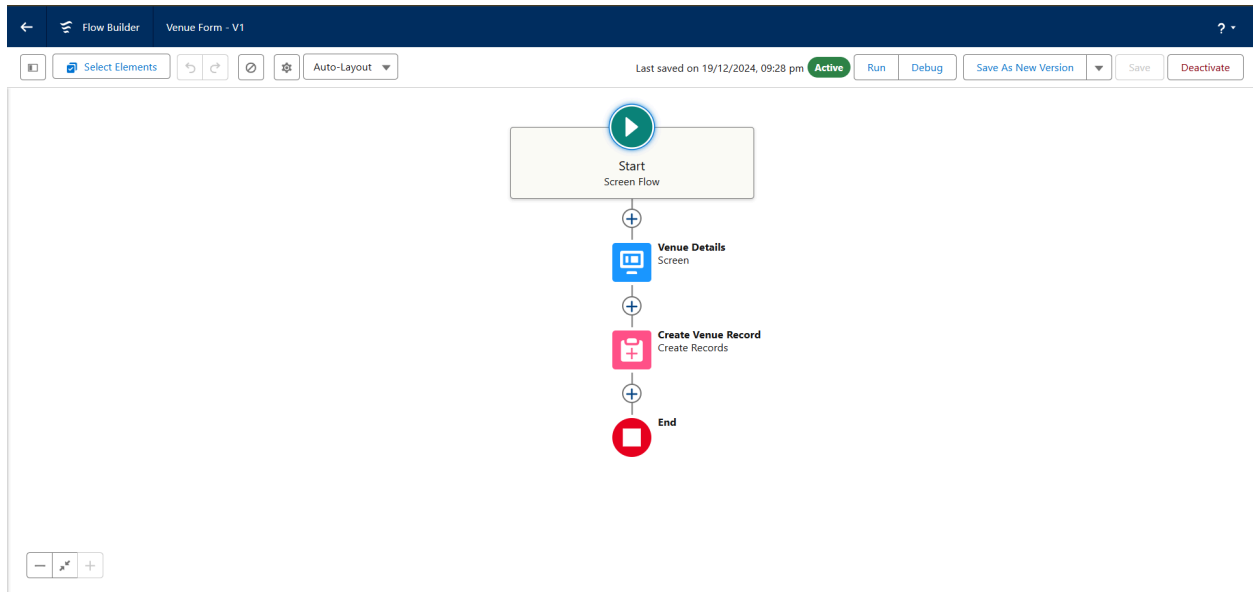
- Access: Shared with Public Group - Iksha

- 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 'FoodConnect', 'Home', 'Venues', 'Tasks', 'Drop-Off Points', 'Execution Details', 'Volunteers', 'Reports', and 'Dashboards'. The main content area is titled 'Dashboard Organization Details' and includes a search bar and buttons for 'Open', 'Refresh', and 'Subscribe'. Below this, there are two main sections: 'venue and Drop Off point' and 'Volunteer Task'. The 'venue and Drop Off point' section contains a table with columns 'Venue Name', 'Drop-Off Point Name', and 'Distance'. The table has one row with 'NONOTAL HOTEL', 'delhi', and '-'. Below the table is a button 'View Report (venue and Drop Off point)'. The 'Volunteer Task' section is currently empty and has a button 'View Report (Volunteer Task)'. On the right side, there is a 'Venue Form' with input fields for 'Venue Name', 'Email' (pre-filled with 'you@example.com'), 'Phone', 'Venue Location', 'Latitude', and 'Longitude'. A 'Next' button is at the bottom right of the form.

Venue Name	Drop-Off Point Name	Distance
NONOTAL HOTEL	delhi	-

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.

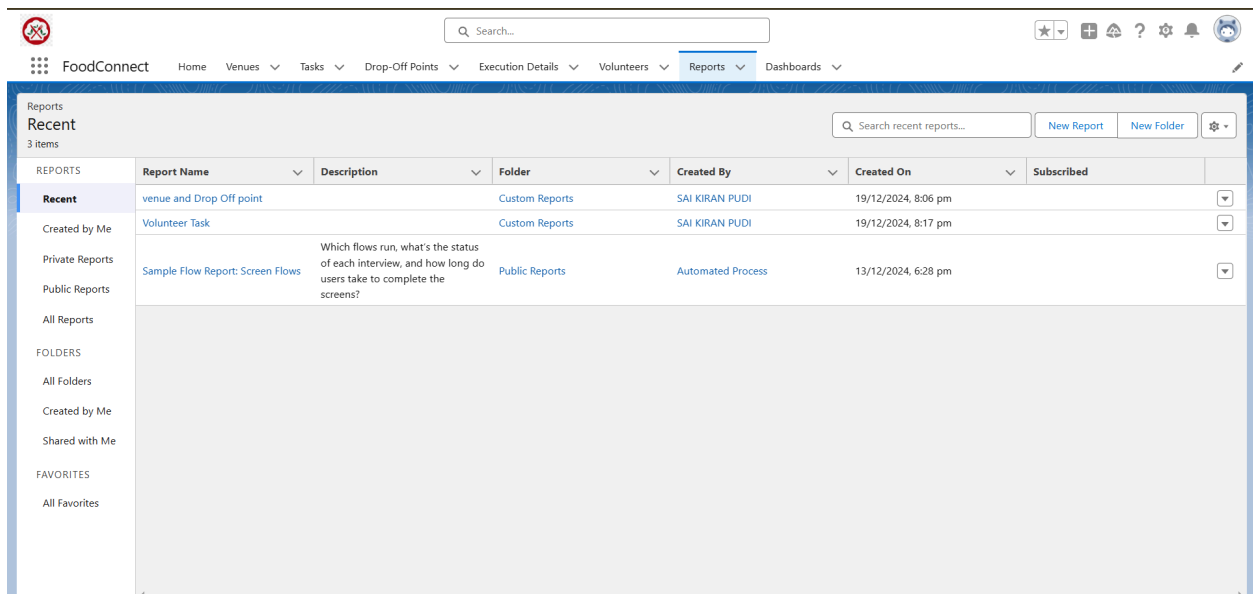
3.3 Lightning App Builder

1. Create Home Page:

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



The screenshot shows the FoodConnect application interface. The top navigation bar includes a search bar and various icons. The main menu on the left lists: Home, Venues, Tasks, Drop-Off Points, Execution Details, Volunteers, Reports (selected), and Dashboards. The 'Reports' section is active, displaying a 'Recent' list of 3 items. The table below shows the details of these reports.

REPORTS	Report Name	Description	Folder	Created By	Created On	Subscribed
Recent	venue and Drop Off point		Custom Reports	SAI KIRAN PUDI	19/12/2024, 8:06 pm	<input type="checkbox"/>
Created by Me	Volunteer Task		Custom Reports	SAI KIRAN PUDI	19/12/2024, 8:17 pm	<input type="checkbox"/>
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	13/12/2024, 6:28 pm	<input type="checkbox"/>
Public Reports						
All Reports						
FOLDERS						
All Folders						
Created by Me						
Shared with Me						
FAVORITES						
All Favorites						

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.