

## FOOD CONNECT WE DELIVER HAPPINESS

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.

Home | Salesforce | Drop-Off Point | Salesforce | Student - Skill Wallet

dns000009ihj2ak-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01INS0000026Vxd/FieldsAndRelationships/view

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**Drop-Off Point**

Details

**Fields & Relationships**

9 Items, Sorted by Field Label

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)		

## 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.

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### Task

Details

**Fields & Relationships**  
23 Items, Sorted by Field Label

Quick Find Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Assigned To	OwnerId	Lookup(User,Calendar,Group)		✓
Call Duration	CallDurationInSeconds	Number(8, 0)		
Call Object Identifier	CallObject	Text(255)		
Call Result	CallDisposition	Text(255)		
Call Type	CallType	Picklist		
Comments	Description	Long Text Area(32000)		
Completed Date/Time	CompletedDateTime	Date/Time		
Create Recurring Series of Tasks	IsRecurrence	Checkbox		
Created By	CreatedById	Lookup(User)		✓

### 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.

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**Volunteer**

Details

**Fields & Relationships**

13 Items, Sorted by Field Label

Quick Find

New Deleted Fields Field Dependencies Set History Tracking

Field Label	API Name	Data Type	
Drop-Off Point	Drop_Off_Point__c	Master-Detail(Drop-Off Point)	✓
Email	Email__c	Email	
Execution ID	Execution_ID__c	Auto Number	
Gender	Gender__c	Picklist	
Last Modified By	LastModifiedById	Lookup(User)	
Volunteer ID	Volunteer_ID__c	Auto Number	
Volunteer Name	Name	Text(80)	✓

#### 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 Object Manager interface for the 'Execution Detail' object. The left sidebar lists various setup options, with 'Fields & Relationships' selected. The main area displays a table of fields and their 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 - babi
- Rule 2:
- Label: Rule 2
- Criteria: Records where the distance is between 15 km and 30 km
- Access: Shared with Public Group - sagar

## 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:

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

The screenshot displays the FoodConnect dashboard interface. At the top, there is a navigation bar with a search bar and various icons. Below the navigation bar, the dashboard is divided into several sections:

- Task Execution Details:** A section showing the current task execution details, including the date and time (05-Jan-2025, 6:49 pm) and the user (Sagar Datti). It includes buttons for Open, Refresh, and Subscribe.
- venue and Drop Off point:** A table displaying venue names, drop-off points, and distances.
 

Venue Name	Drop-Off Point	Dist...
anapura	vizianagaram	6.4535
helping poor papole	bobbili	719.43
saving food	nellore	7.6064
- Volunteer Task:** A section showing a bar chart of record counts for different volunteer tasks. The chart has two bars, one for Volunteer ID-1 and one for Volunteer ID-2, both showing a record count of 1. Below the chart is a button for View Report (Volunteer Task).
- Venue Form:** A form for adding or updating venue information. It includes fields for Venue Name, Email, Phone, Venue Location, Latitude, and Longitude. A Next button is at the bottom right.

### 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.

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- 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.