

Project Title: To Supply Leftover Food to Poor

Category: Salesforce

Skills Required: Salesforce Developer

1. Project Overview

a. 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

a. 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:

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

Setup

Home

Object Manager

Search Setup

SETUP > OBJECT MANAGER

Drop-Off Point

Details

Fields & Relationships

9 Items, Sorted by Field Label

Quick Find

New

Deleted Fields

Field Dependencies

Set History Tracking

Fields & Relationships

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Page Layouts	Created By	CreatedById	Lookup(User)	
Lightning Record Pages	Distance	Distance_c	Number(14, 4)	
Buttons, Links, and Actions	distance calculation	distance_calculation_c	Formula (Number)	
Compact Layouts	Drop-Off Point Name	Name	Text(80)	
Field Sets	Last Modified By	LastModifiedById	Lookup(User)	
Object Limits	Location 2	Location_2_c	Geolocation	
Record Types	Owner	OwnerId	Lookup(User/Group)	
Related Lookup Filters	State	State_c	Picklist	
Search Layouts	Venue_c	Venue_c	Lookup(Venue)	
List View Button Layout				
Restriction Rules				
Scoping Rules				
Object Access				
Triggers				
Flow Triggers				
Validation Rules				
Conditional Field Formatting				

2. Task:
1. 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.

2. Fields:

1. Task Name: A text field representing the name of the task.

2. Date: A date field indicating when the task is scheduled or completed.

3. Rating: A numeric field used to rate the task performance.

4. Drop-Off Point: A lookup relationship field linking to the Drop-Off Point object to associate tasks with specific drop-off points.
5. Sponsored By: A lookup relationship field linking to the Drop-Off Point object to indicate the sponsor of the task.

3)VOLUNTEE R

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

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

Setup

Home

Object Manager

Search Setup

Setup > OBJECT MANAGER

Task

Details

Fields & Relationships

15 Items, Sorted by Field Label

Quick Find

New

Deleted Fields

Field Dependencies

Set History Tracking

Fields & Relationships	FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Page Layouts	Created By	CreatedById	Lookup(User)		
Lightning Record Pages	Date	Date_c	Date		
Buttons, Links, and Actions	Distance	Distance_c	Number(14, 4)		
Compact Layouts	Drop-Off Point	Drop_Off_Point_c	Lookup(Drop-Off Point)		
Field Sets	Feedback	Feedback_c	Long Text Area(32768)		
Object Limits	Food Category	Food_Category__c	Picklist (Multi-Select)		
Record Types	Last Modified By	LastModifiedById	Lookup(User)		
Related Lookup Filters	Name of the Person	Name_of_the_Person_c	Text(14)		
Search Layouts	Number of People Served	Number_of_People_Served_c	Number(18, 0)		
List View Button Layout	Owner	OwnerId	Lookup(User/Group)		
Restriction Rules	Phone	Phone_c	Phone		
Scoping Rules	Rating	Rating_c	Picklist		
Object Access	Sponsored By	Sponsored_By__c	Lookup(Venue)		
Triggers	Task ID	Task_ID_c	Auto Number		
Flow Triggers	Task Name	Name	Text(80)		
Validation Rules					
Conditional Field Formatting					

1. Execution Detail:

- a. Purpose: The Execution Detail object captures detailed information about food distribution

activities, including which volunteers and task are associated with each distribution.

b. Fields:

1. Execution Detail Name: A text field for naming the execution detail record.
2. Volunteer: A master-detail relationship field linking to the Volunteer object to associate

execution details with a specific volunteer. FOOD

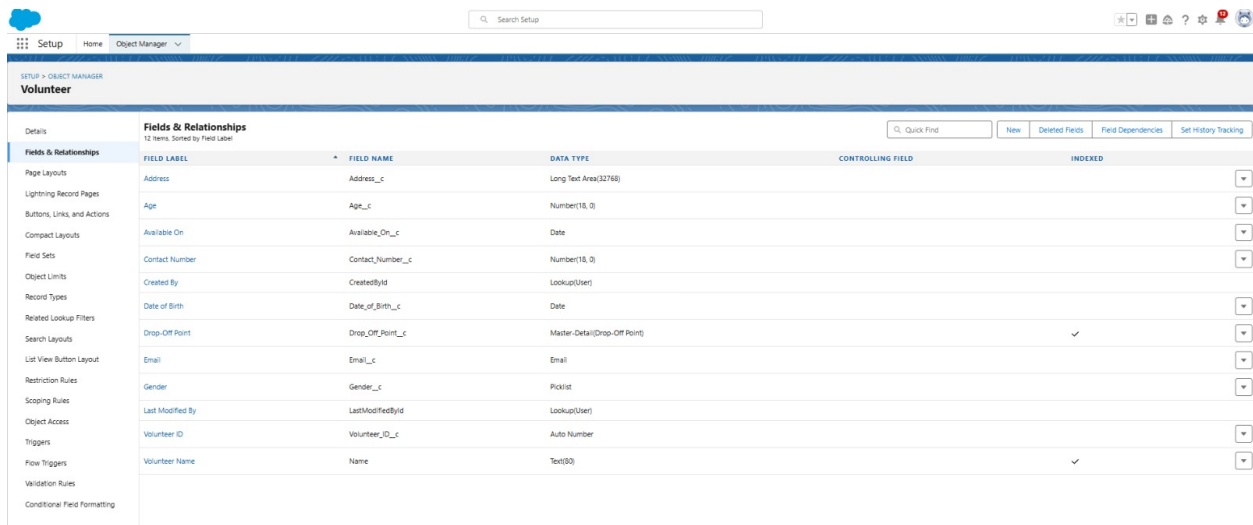
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3. Task: A master-detail relationship field linking to the Task object to associate execution

details with a specific task.

4. Details: A text field for additional information about the execution.



The screenshot shows the Salesforce Setup interface for the 'Volunteer' object. The 'Fields & Relationships' tab is selected, displaying a table of 12 fields. The table columns are FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED. The fields listed are: Address (Long Text Area), Age (Number), Available On (Date), Contact Number (Number), Created By (Lookup), Date of Birth (Date), Drop-Off Point (Master-Detail), Email (Email), Gender (Picklist), Last Modified By (Lookup), Volunteer ID (Auto Number), and Volunteer Name (Text). The 'Drop-Off Point' and 'Volunteer Name' fields are marked as indexed.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Address	Address__c	Long Text Area(32768)		
Age	Age__c	Number(18, 0)		
Available On	Available_On__c	Date		
Contact Number	Contact_Number__c	Number(18, 0)		
Created By	CreatedById	Lookup(User)		
Date of Birth	Date_of_Birth__c	Date		
Drop-Off Point	Drop_Off_Point__c	Master-Detail(Drop-Off Point)		✓
Email	Email__c	Email		
Gender	Gender__c	Picklist		
Last Modified By	LastModifiedById	Lookup(User)		
Volunteer ID	Volunteer_ID__c	Auto Number		
Volunteer Name	Name	Text(30)		✓

Setup

Home

Object Manager

Search Setup

Setup > OBJECT MANAGER

Execution Detail

Details

Fields & Relationships

6 items, Sorted by Field Label

Quick Find

New

Deleted Fields

Field Dependencies

Set History Tracking

Fields & Relationships

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

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

List View Button Layout

Restriction Rules

Scoping Rules

Object Access

Triggers

Flow Triggers

Validation Rules

Conditional Field Formatting

b. Object Relationships

i. Master-Detail Relationships:

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

ii. Lookup Relationships:

3. Task to Drop-Off Point: Connects tasks to drop-off points, providing context on where each task is executed.
4. Task to Volunteer: Connects tasks to volunteers, enabling tracking of which volunteer is responsible for each task. FOOD

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

To ensure that records are shared appropriately based on distance criteria, the following sharing

rules were set up:

i. Rule 1:

1. Label: Rule 1
2. Criteria: Records where the distance is less than 15 km
3. Access: Shared with Public Group – shyam famous

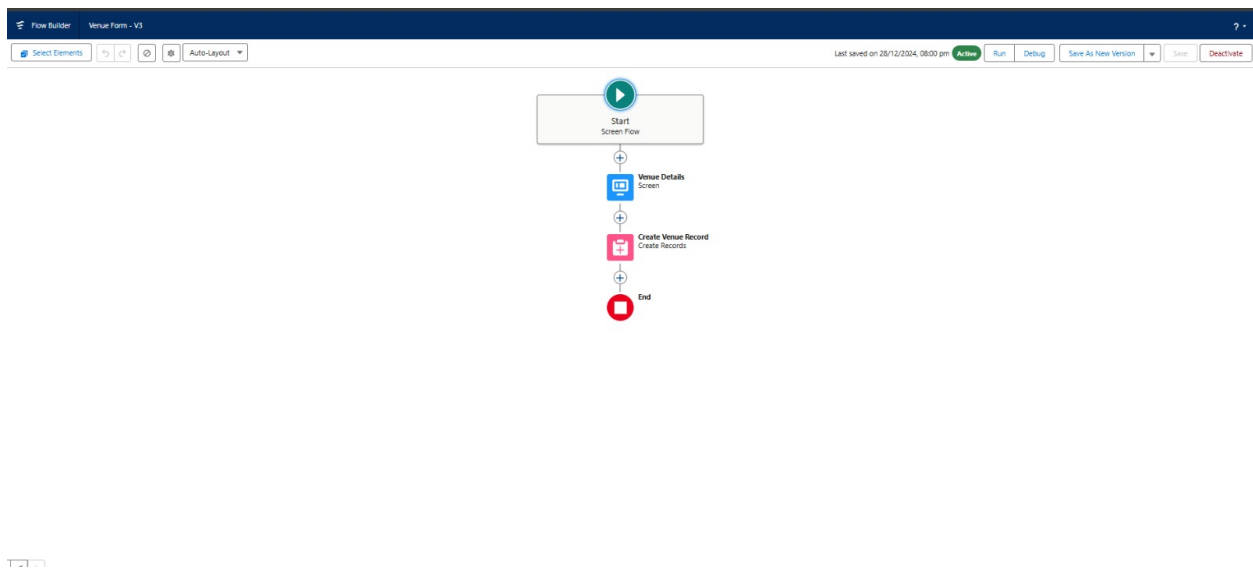
ii. Rule 2:

4. Label: Rule 2
5. Criteria: Records where the distance is between 15 km and 30 km
6. Access: Shared with Public Group – shyam foundation

d. Flow and Dashboard

- i. Flow: Venue Flow

1. Purpose: To manage and capture detailed information related to food drop-off points.
2. Components:
 1. Text Component: For entering the venue name.
 2. Email Component: For entering the contact email of the venue.
 3. Phone Component: For entering the contact phone number of the venue.
 4. Text Component: For entering the venue location.
 5. Number Components: For entering latitude and longitude values of the venue.



ii. Dashboard:

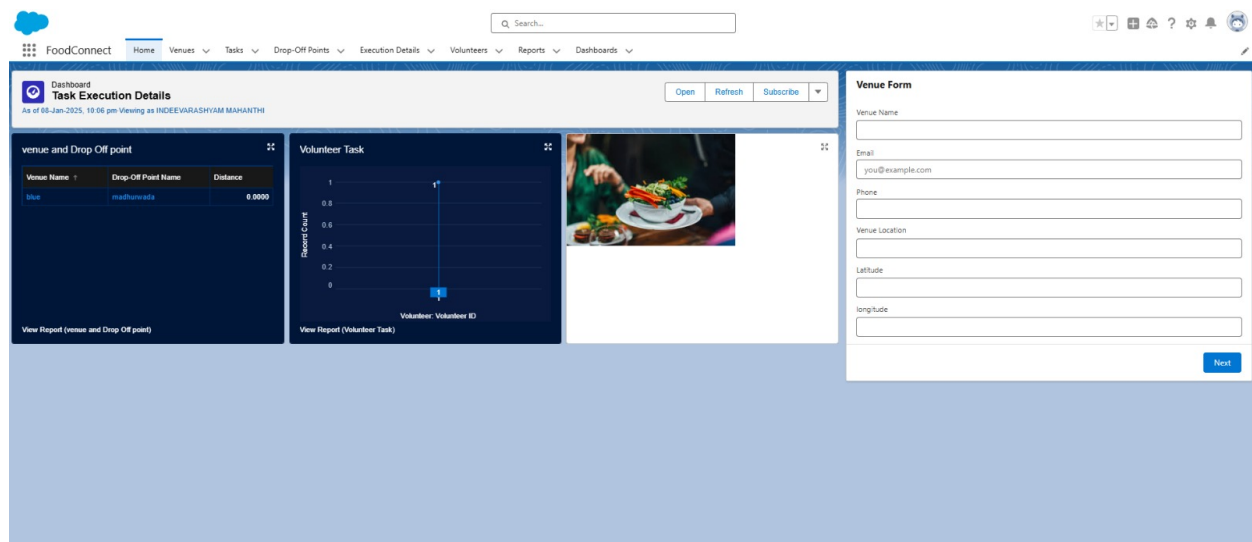
3. Name: Organization Details

4. Components:

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



3. Configuration and Setup Instructions

a. Creating Custom Objects

1. Drop-Off Point:

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

2. Task:

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

3. Volunteer:

- a. Navigate to Object Manager > Create >
Custom Object. FOOD CONNECT

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- b. Enter details such as the label name, record name, and other settings for Volunteer.

4. Execution Detail:

- a. Navigate to Object Manager > Create > Custom Object.
- b. Enter details such as the label name, record name, and other settings for Execution Detail.
- b. Sharing Rules Setup
 - i. Go to Sharing Settings.
 - ii. Define new sharing rules for Drop-Off Point based on distance criteria, ensuring appropriate

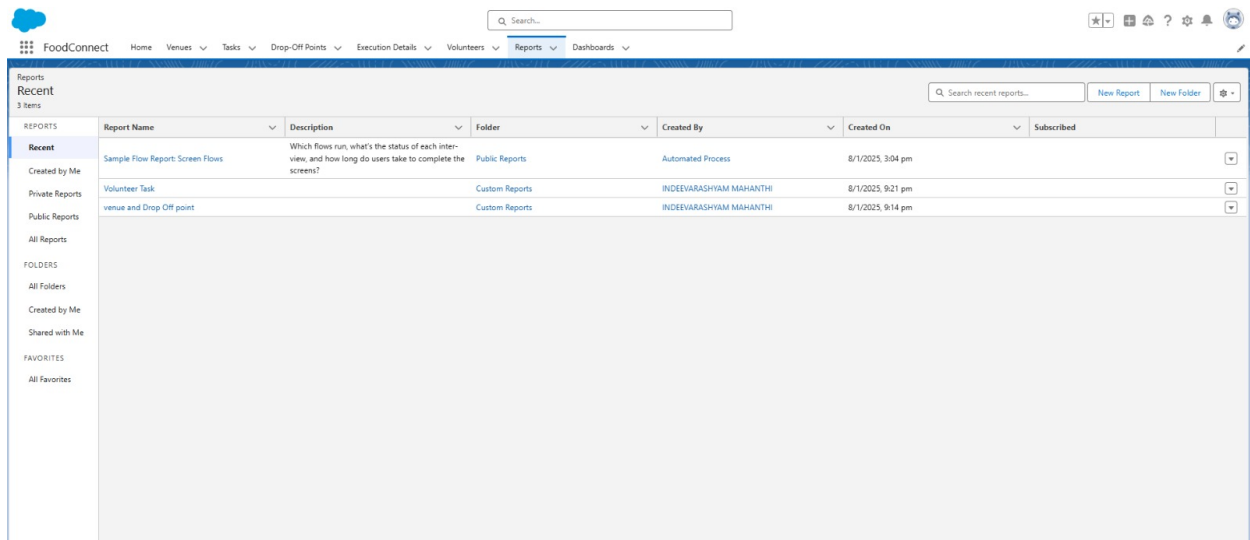
access for different public groups.

c. Lightning App Builder

1. Create Home Page:

- a. Go to Lightning App Builder > New.

- b. Select Home Page and name it "HOME Page".
 - c. Add Flow and Dashboard components to the page.
2. Save and Activate:
 - a. Click on Save and Activation.
 - b. Set the page as the default for the FoodConnect app.



The screenshot displays the FoodConnect application interface. At the top, there is a navigation bar with the FoodConnect logo and a menu containing Home, Venues, Tasks, Drop-Off Points, Execution Details, Volunteers, Reports (selected), and Dashboards. A search bar is located to the right of the menu. Below the navigation bar, the main content area is titled 'Reports' and 'Recent' (3 items). It features a table with columns: Report Name, Description, Folder, Created By, Created On, and Subscribed. The table lists three reports: 'Sample Flow Report: Screen Flows' (Public Reports, Automated Process, 8/1/2025, 3:04 pm), 'Volunteer Task' (Custom Reports, INDEEVARASHYAM MAHANATHI, 8/1/2025, 9:21 pm), and 'venue and Drop Off point' (Custom Reports, INDEEVARASHYAM MAHANATHI, 8/1/2025, 9:14 pm). On the left side of the main content area, there is a sidebar with links to 'All Reports', 'FOLDERS', 'All Folders', 'Created by Me', 'Shared with Me', 'FAVORITES', and 'All Favorites'.

REPORTS	Report Name	Description	Folder	Created By	Created On	Subscribed
Recent	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	8/1/2025, 3:04 pm	
Created by Me	Volunteer Task		Custom Reports	INDEEVARASHYAM MAHANATHI	8/1/2025, 9:21 pm	
Private Reports	venue and Drop Off point		Custom Reports	INDEEVARASHYAM MAHANATHI	8/1/2025, 9:14 pm	
Public Reports						
All Reports						
FOLDERS						
All Folders						
Created by Me						
Shared with Me						
FAVORITES						
All Favorites						