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.

Detailed Description of Implemented Features

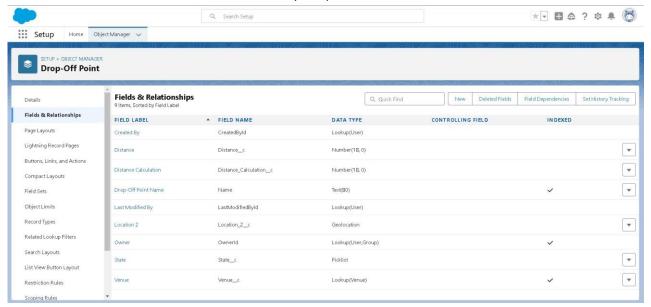
1.2 Custom Objects

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:

- o 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.
- o **Distance:** A number field that records the distance from the drop-off point to the delivery area.
- o **Venue:** A lookup relationship field linking to the Venue object to provide a connection between drop-off points and venues.

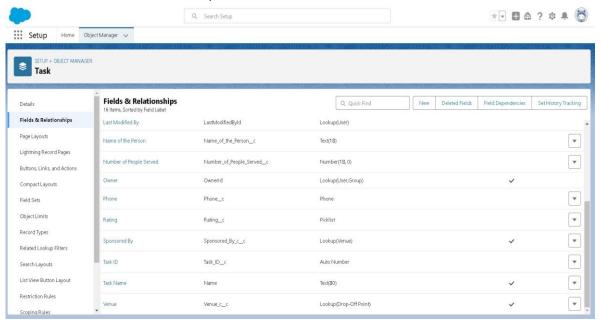


2. **Task:**

■ 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.

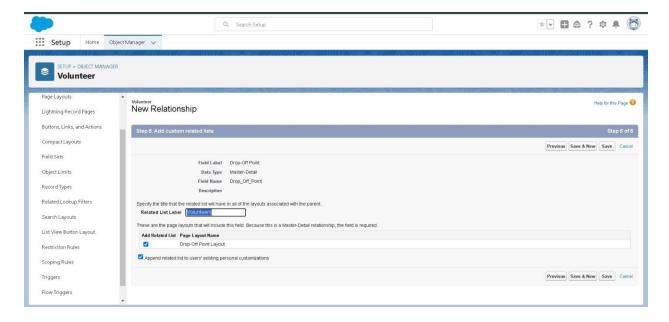
■ Fields:

- Task Name: A text field representing the name of the task.
- o Date: A date field indicating when the task is scheduled or completed.
- o 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.



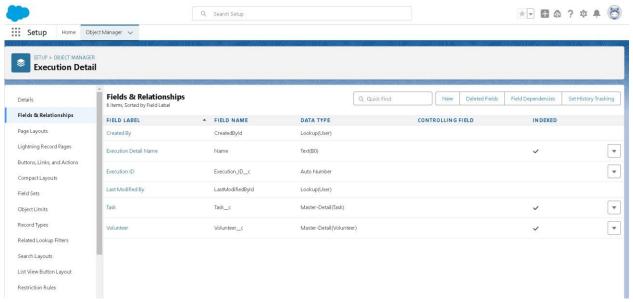
3. Volunteer:

- **Purpose:** The Volunteer object keeps track of individuals who are involved in the food distribution process, including their contact information and assigned tasks. **Fields:**
 - O Volunteer Name: A text field for the name of the volunteer.
 - o 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.
 - o **Task:** A master-detail relationship field linking to the Task object to associate execution details with a specific task.
 - o **Details:** A text field for additional information about the execution.



1.3 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.

1.4 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

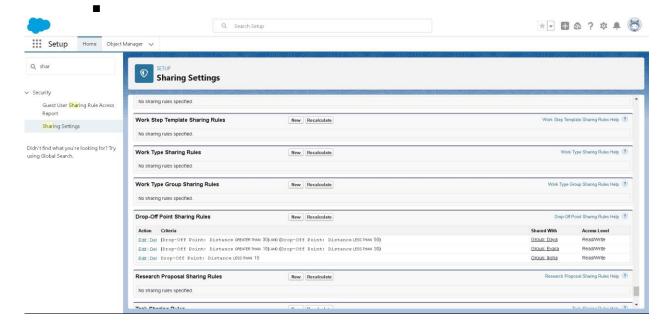
■ Access: Shared with Public Group - NSS • Rule

3:

■ Label: Rule 3

■ Criteria: Records where the distance is between 30 km and 50 km

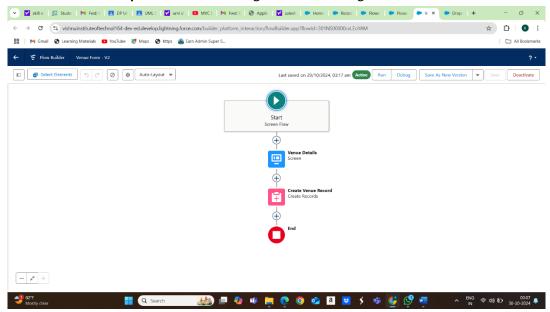
■ Access: Shared with Public Group - Street Cause



1.5 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.
 - O Number Components: For entering latitude and longitude values of the venue.

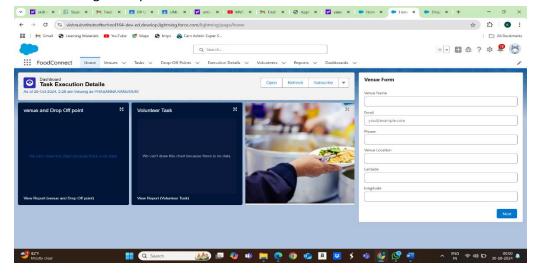


• Dashboard:

■ Name: Organization Details ■

Components:

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



2. Configuration and Setup Instructions

2.1 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 **DropOff 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**.

2.2 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.

2.3 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.

2.4 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.

3. 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.

3.1 GitHub Repository Link: https://github.com/prasanna-kanumuri/FoodConnect/tree/main