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.
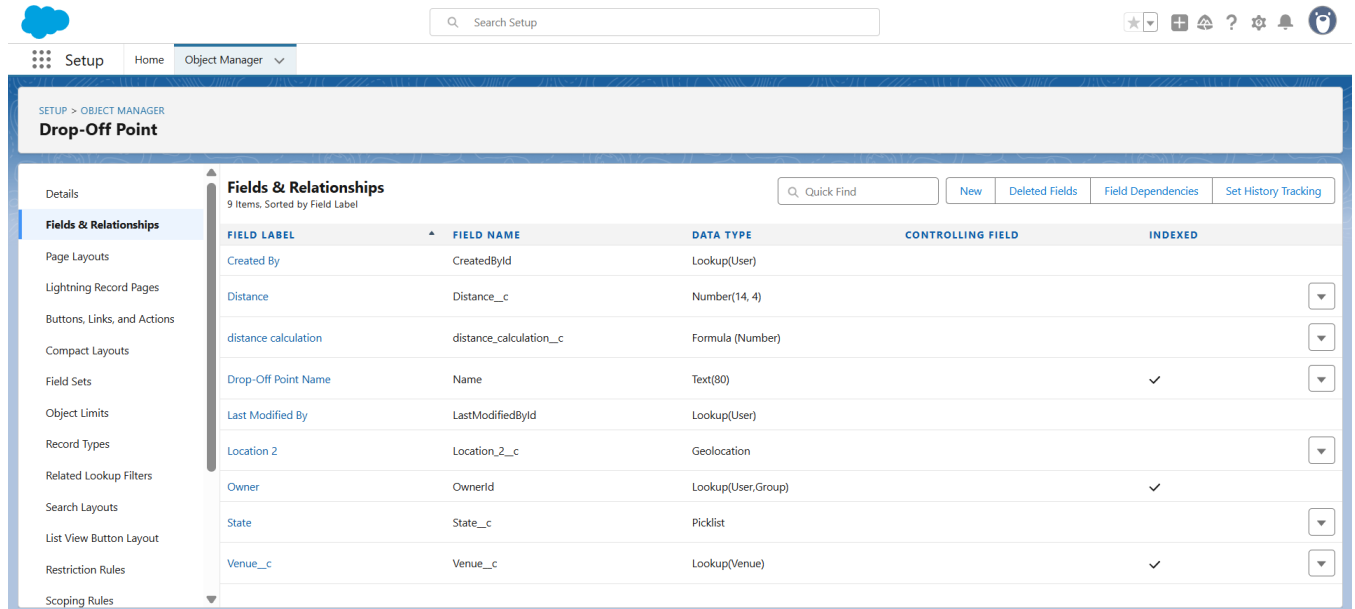
2. Detailed Description of Implemented Features

a. Custom Objects

1. Drop-OffPoint:

- 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-OffPoint 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 dropoff 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.

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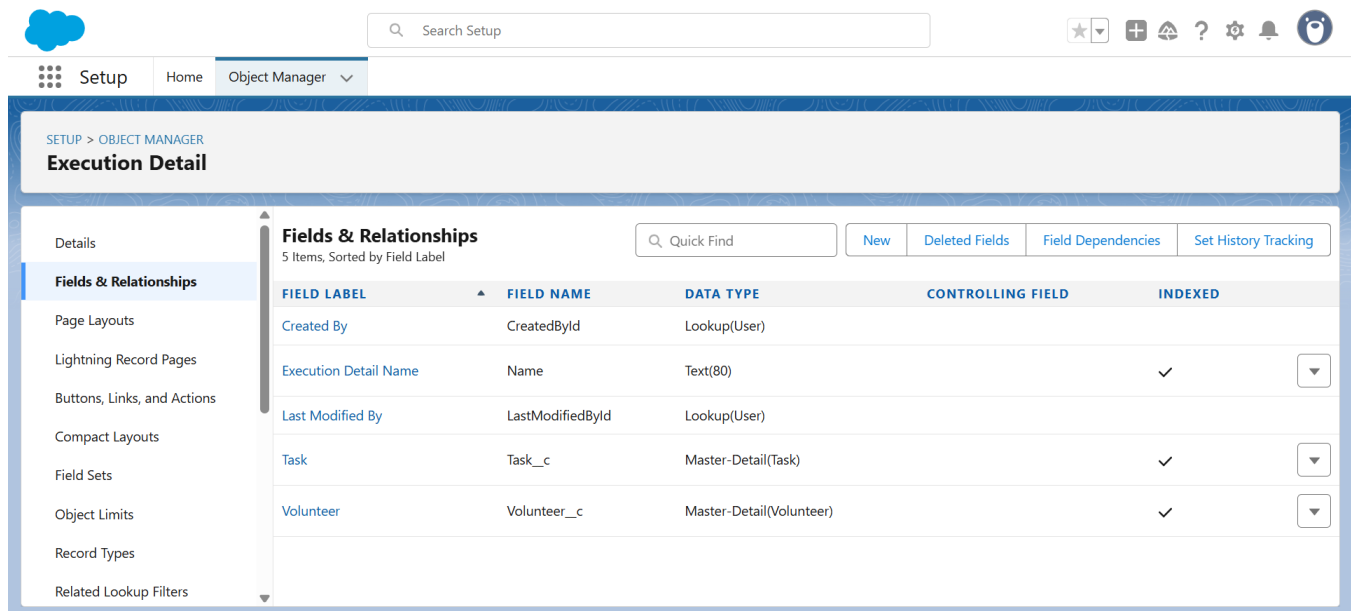
- Purpose: The Volunteer object keeps track of individuals who are involved in the food distribution process, including their contact information and assigned tasks

- 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.

2.2 Object Relationships
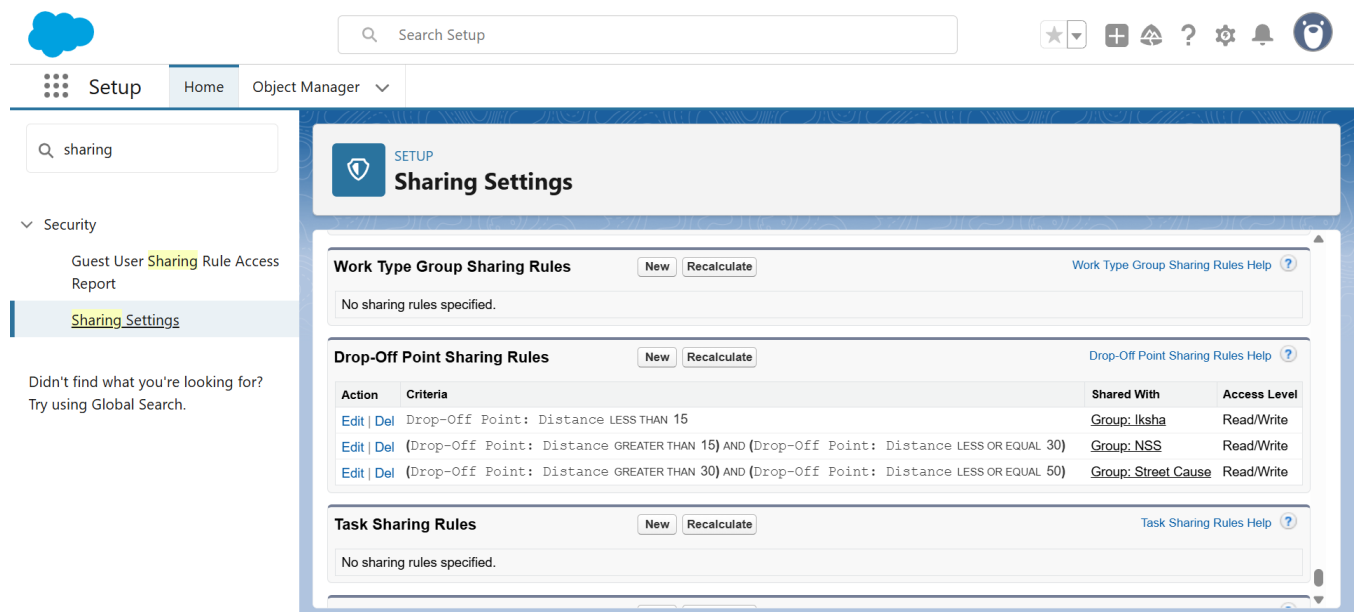
- Master-Detail Relationships:

    - 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 a 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.
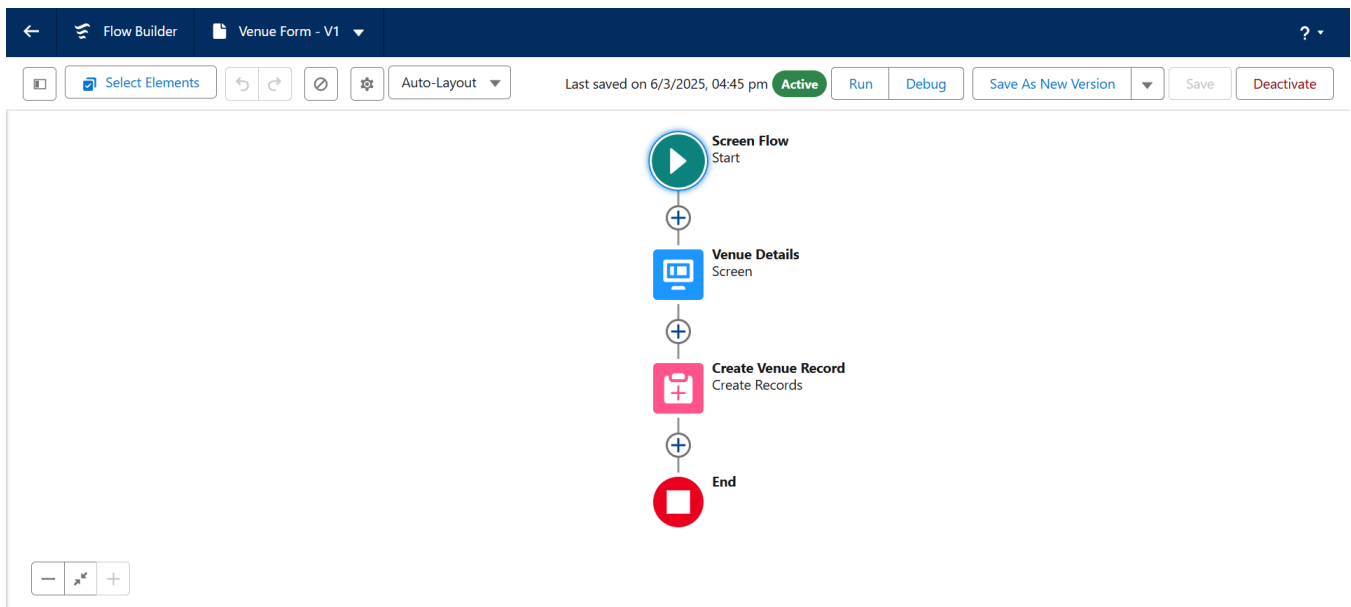
- **Dashboard:**

- Name: Organization Details

- Components:

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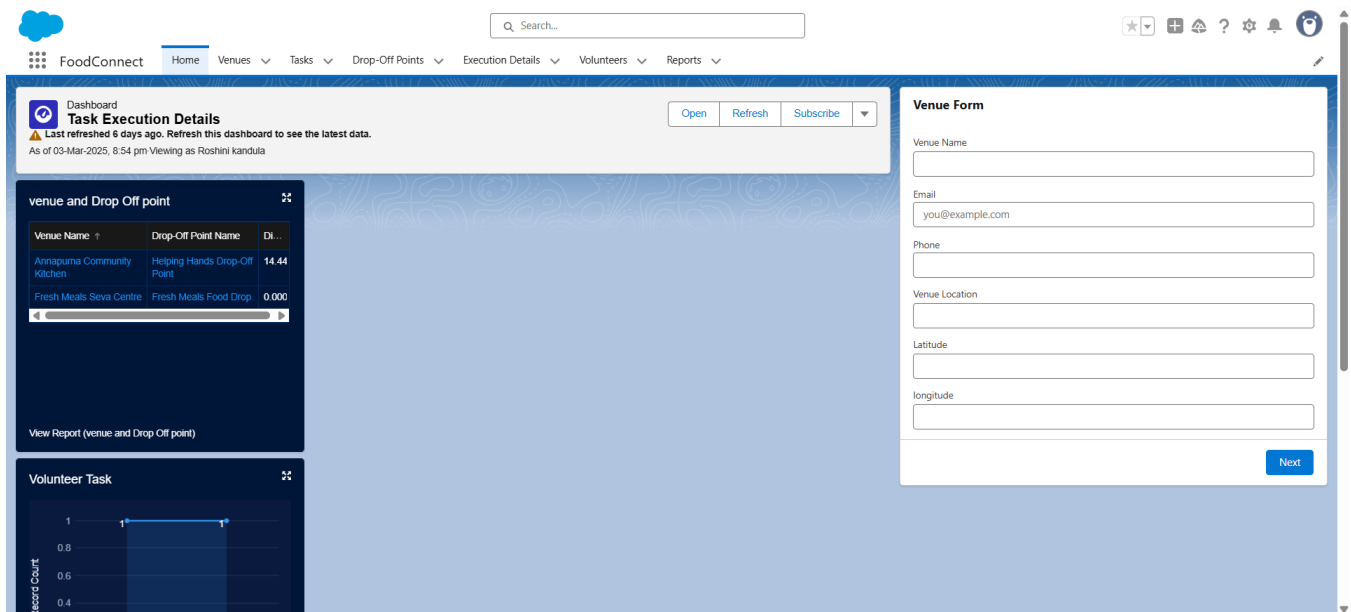
3. Configuration and Setup Instructions

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

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.
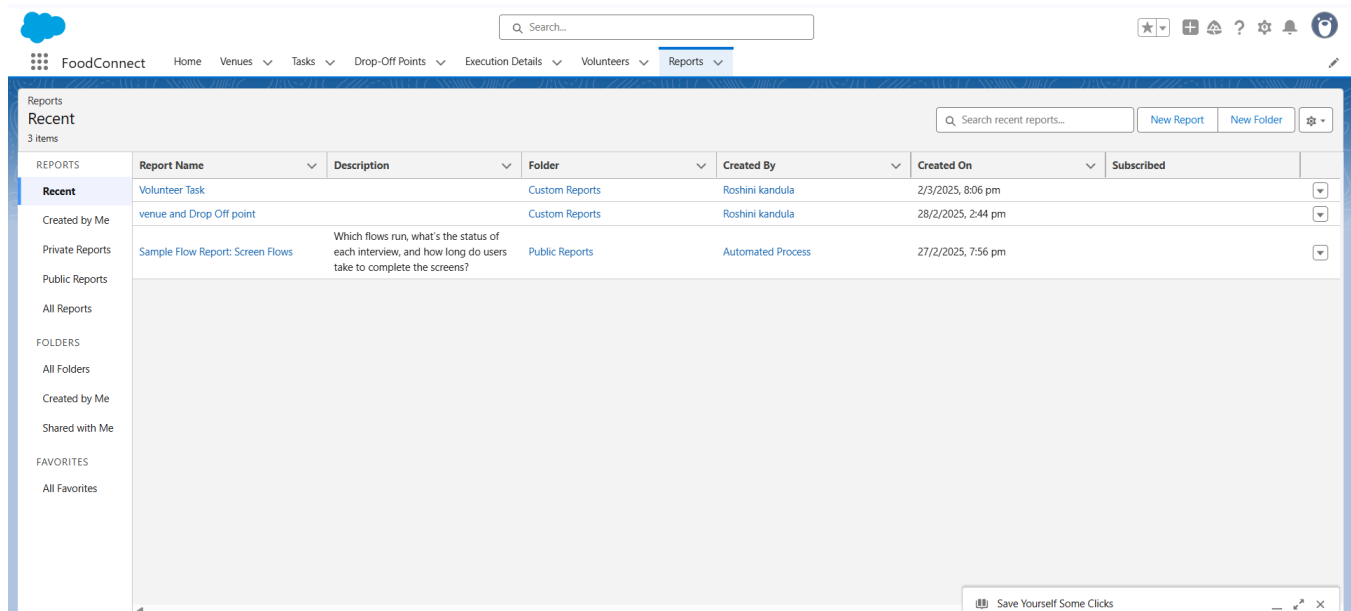
3.3 Lightning App Builder

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.

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.