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 andstreamline the distribution of leftover food to underserved communities. The primary goal is to enhance the efficiency of food drop-offs, coordinate tas 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-o point.
○ Location Details: A text field for additional details about the drop-off poi location.
○ Distance: A number field that records the distance from the drop-off poi to the delivery area.
○ Venue: A lookup relationship field linking to the Venue object to provide 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 tas

○ Date: A date field indicating when the task is scheduled or complete

○ Rating: A numeric field used to rate the task performanc

○ Drop-Off Point: A lookup relationship field linking to the Drop-Off Poi object to associate tasks with specific drop-off point

○ Sponsored By: A lookup relationship field linking to the Drop-Off Poi 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 voluntee

○ Contact Email: An email field for the volunteer's contact emai

○ Contact Phone: A phone field for the volunteer's contact numbe

○ Assigned Tasks: A related list showing tasks assigned to the volunteer

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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 deta record.

○ Volunteer: A master-detail relationship field linking to the Volunteer obje to associate execution details with a specific voluntee

○ Task: A master-detail relationship field linking to the Task object associate execution details with a specific tas

○ Details: A text field for additional information about the executio

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
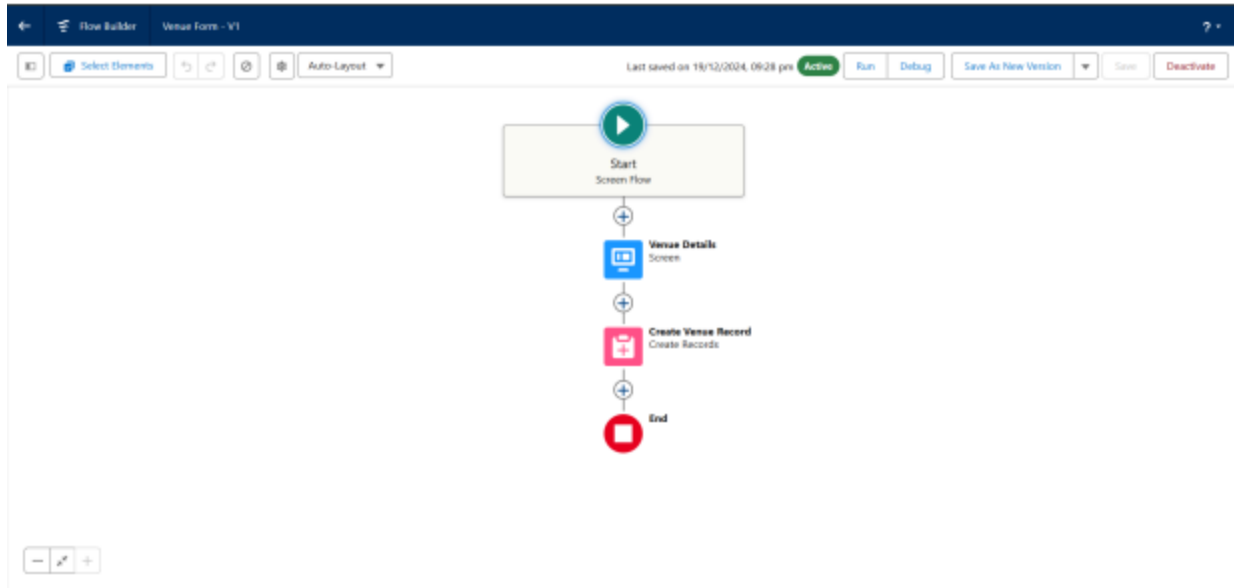
rules were set up:

● 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.

3. Configuration and Setup Instructio

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, ensuri appropriate access for different public groups.
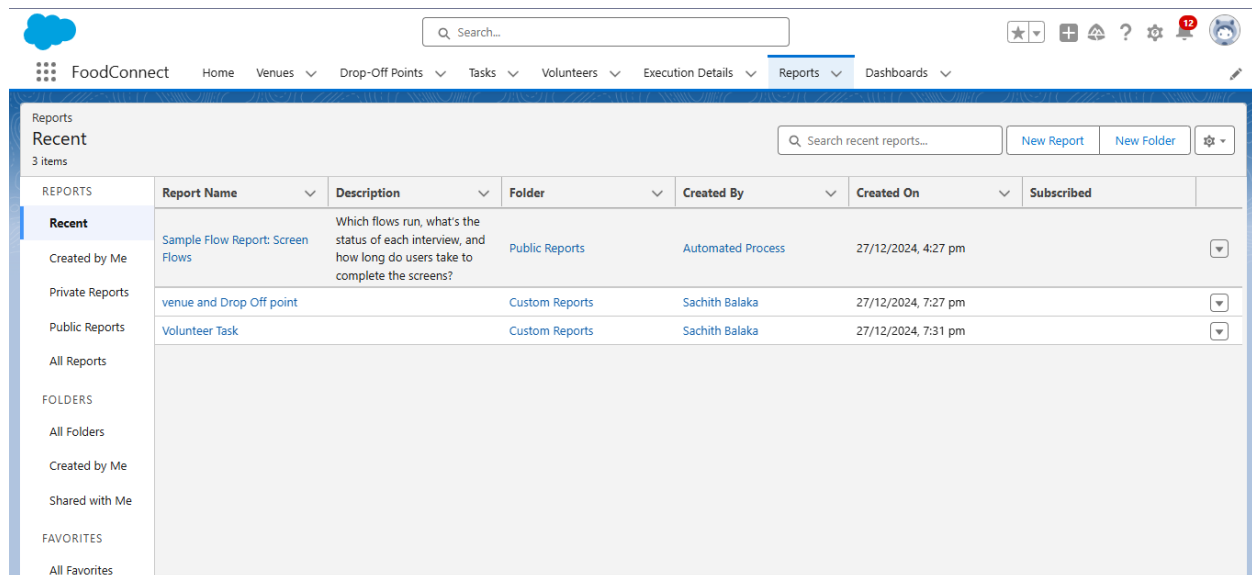
3.3 Lightning App Builder

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 a analyse relevant data.

3. Dashboards:
■ Configure dashboards to visualise data from reports and other component 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, a reports to illustrate the setup.
● Project Documentation: Detailed descriptions of implemented features, configuration
and setup instructions.
● Project Demonstration Video: A video showcasing the functionality of the application, including key features and processes.