Project Title: To Supply Leftover Food to Poor

Category: Salesforce

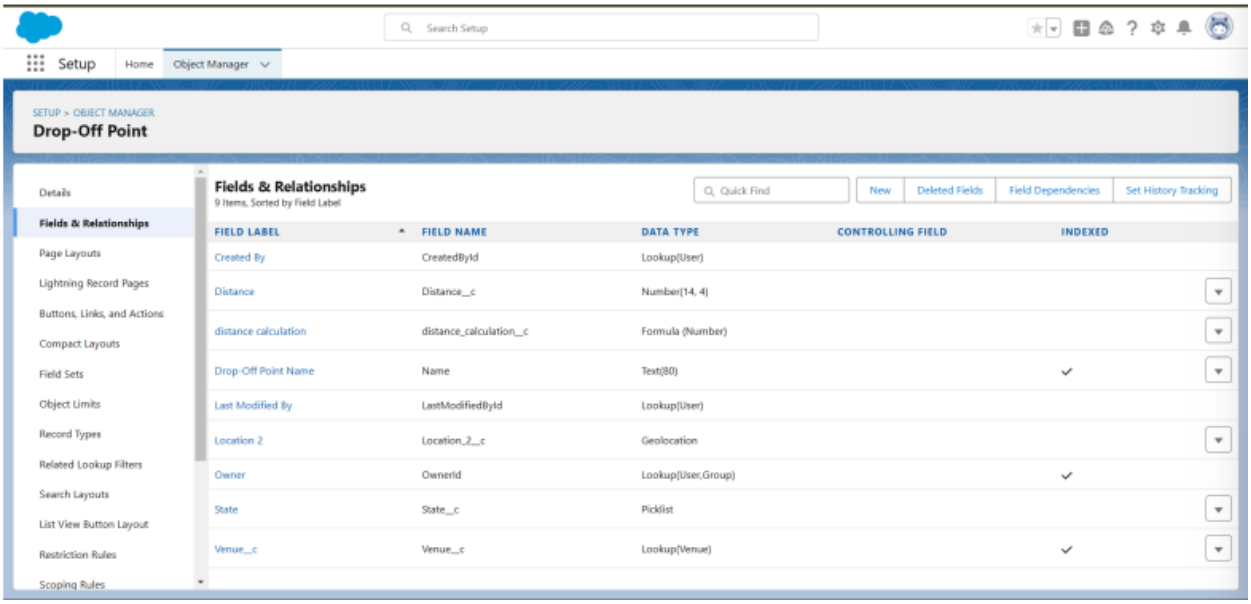
Skills Required: Salesforce Developer

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 eciency 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 eld representing the name of the drop-off point.
○ Location Details: A text eld for additional details about the drop-off point location.
○ Distance: A number eld that records the distance from the drop-off point to the delivery area.
○ Venue: A lookup relationship eld 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:

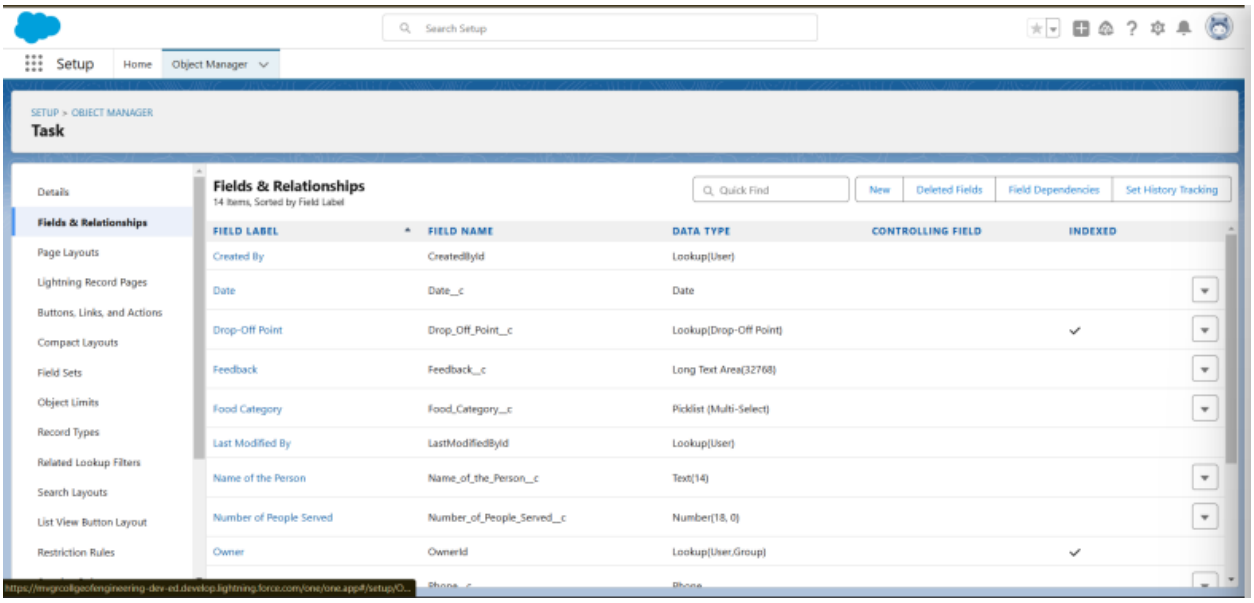
○ Task Name: A text eld representing the name of the task.

○ Date: A date eld indicating when the task is scheduled or completed.

○ Rating: A numeric eld used to rate the task performance.

○ Drop-Off Point: A lookup relationship eld linking to the Drop-Off Point object to associate tasks with specic drop-off points.

○ Sponsored By: A lookup relationship eld 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.

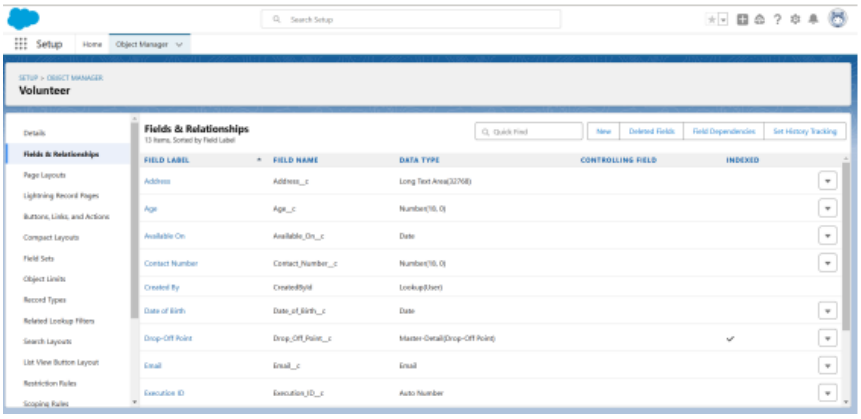
■ Fields:

○ Volunteer Name: A text eld for the name of the volunteer.

○ Contact Email: An email eld for the volunteer's contact email.

○ Contact Phone: A phone eld for the volunteer's contact number.

○ Assigned Tasks: A related list showing tasassigned to the volunteer

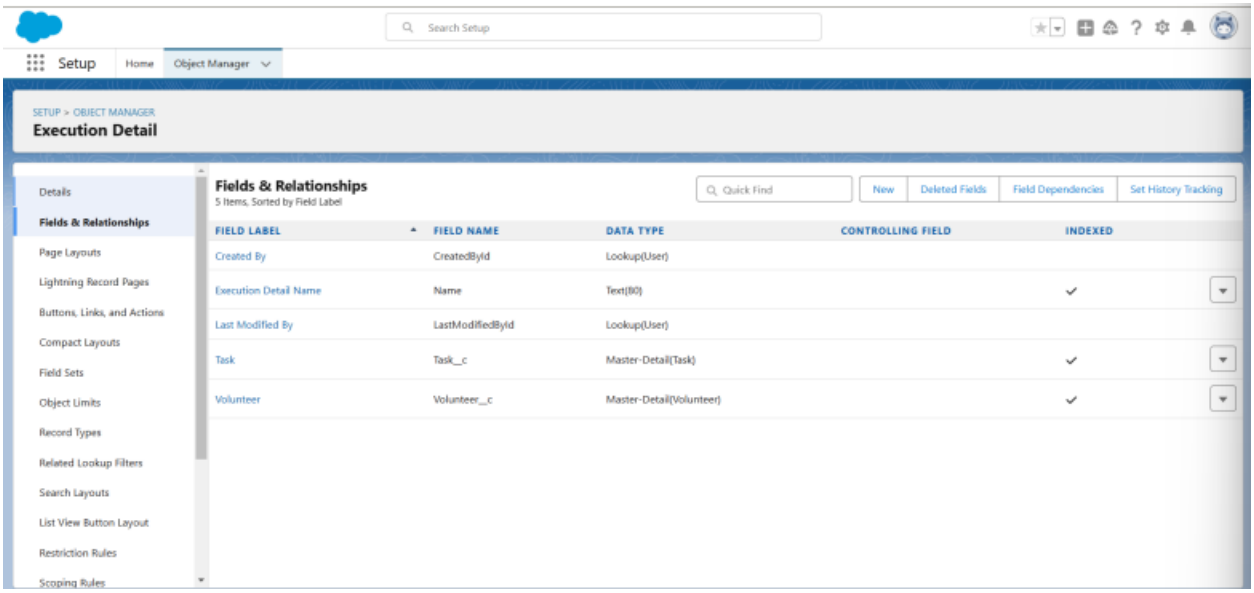


4. Execution Detail:

■ Purpose: The Execution Detail object captures detailed information about food distribution activities, including which volunteers and task are associated with each distribution.

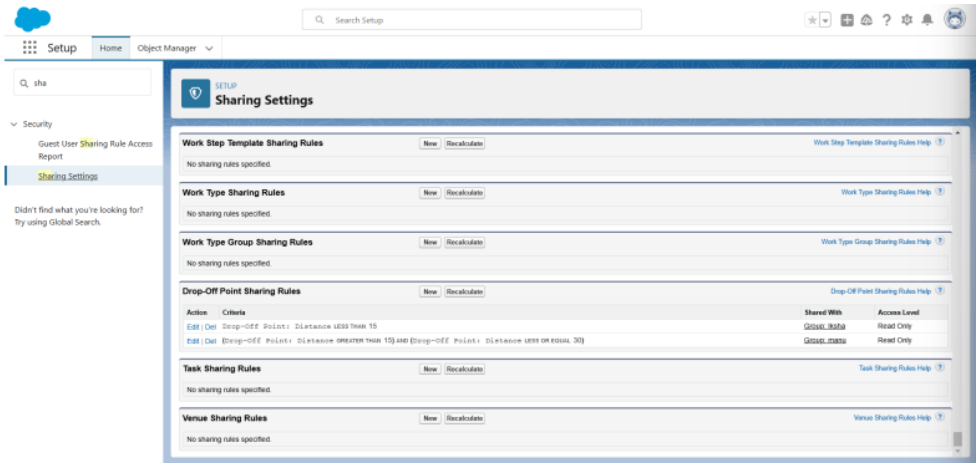
■ Fields:

○ Execution Detail Name: A text eld for naming the execution detail record.
○ Volunteer: A master-detail relationship eld linking to the Volunteer object to associate execution details with a specic volunteer.
○ Task: A master-detail relationship eld linking to the Task object to associate execution details with a specic task.
○ Details: A text eld 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 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



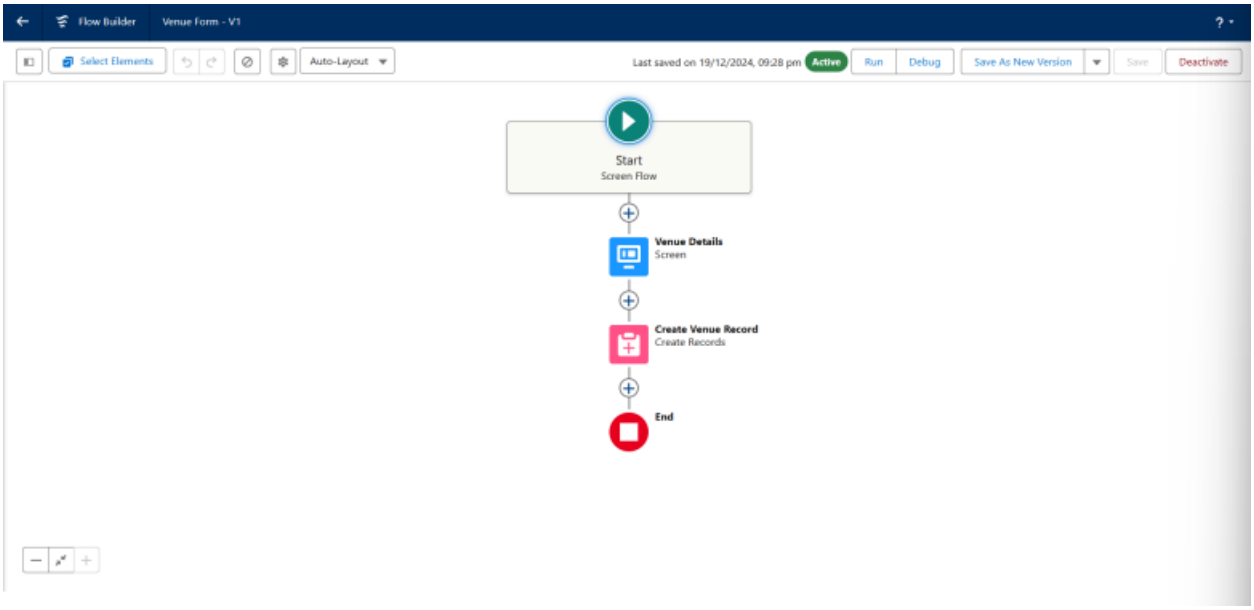
2.4 Flow and Dashboard
● Flow: Venue Flow
■ Purpose: To manage and capture detailed information related to food drop-off points.
■ Components:
○ Text Component: For entering the venue name.
○ Email Component: For entering the contact email of the venue.
○ Phone Component: For entering the contact phone 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. Conguration 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.
■ 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.
● Dene 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 congure reports using the custom report types to track and

analyse relevant data.



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■ Name: Organization Details

■ Components:

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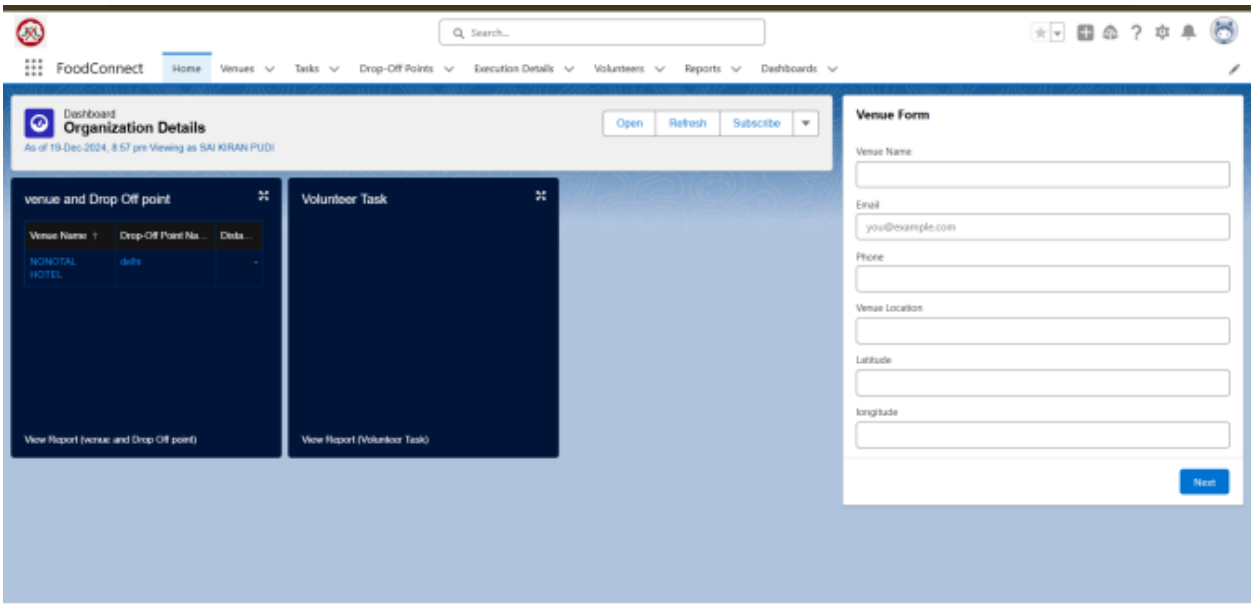

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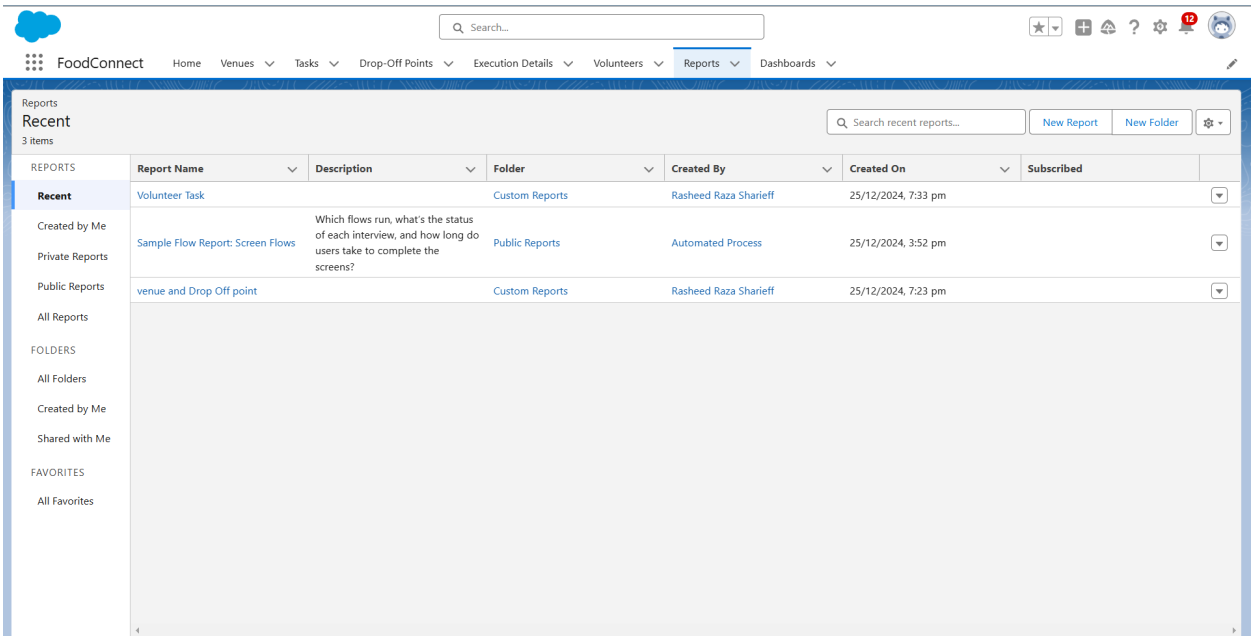

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3. Dashboards:

■ Congure 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, ows, dashboards, and reports to illustrate the setup.

● Project Documentation: Detailed descriptions of implemented features, congurations,
and setup instructions.

● Project Demonstration Video: A video showcasing the functionality of the application, including key features and processes.