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 andstreamline 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.

Search Setup

Details	**Fields & Relationships**					Quick Find	New	Deleted Fields	Field Dependencies	Set History Tracking
Fields & Relationships	9 Items, Sorted by Field Label									

FIELD LABEL ▲	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED	
Created By	CreatedById	Lookup(User)			
Distance	Distance__c	Number(14, 4)			▼
distance calculation	distance_calculation__c	Formula (Number)			▼
Drop-Off Point Name	Name	Text(80)		✓	▼
Last Modified By	LastModifiedById	Lookup(User)			
Location 2	Location_2__c	Geolocation			▼
Owner	OwnerId	Lookup(User,Group)		✓	
State	State__c	Picklist			▼
Venue__c	Venue__c	Lookup(Venue)		✓	▼

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

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.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Date	Date__c	Date		
Distance	Distance__c	Number(14, 4)		
Drop-Off Point	Drop_Off_Point__c	Lookup(Drop-Off Point)		✓
Feedback	Feedback__c	Long Text Area(32768)		
Food Category	Food_Category__c	Picklist (Multi-Select)		
Last Modified By	LastModifiedById	Lookup(User)		
Name of the Person	Name_of_the_Person__c	Text(14)		
Number of People Served	Number_of_People_Served__c	Number(18, 0)		
Owner	OwnerId	Lookup(User,Group)		✓
Phone	Phone__c	Phone		
Rating	Rating__c	Picklist		
Sponsored By	Sponsored_By__c	Lookup(Venue)		✓
Task ID	Task_ID__c	Auto Number		
Task Name	Name	Text(80)		✓

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
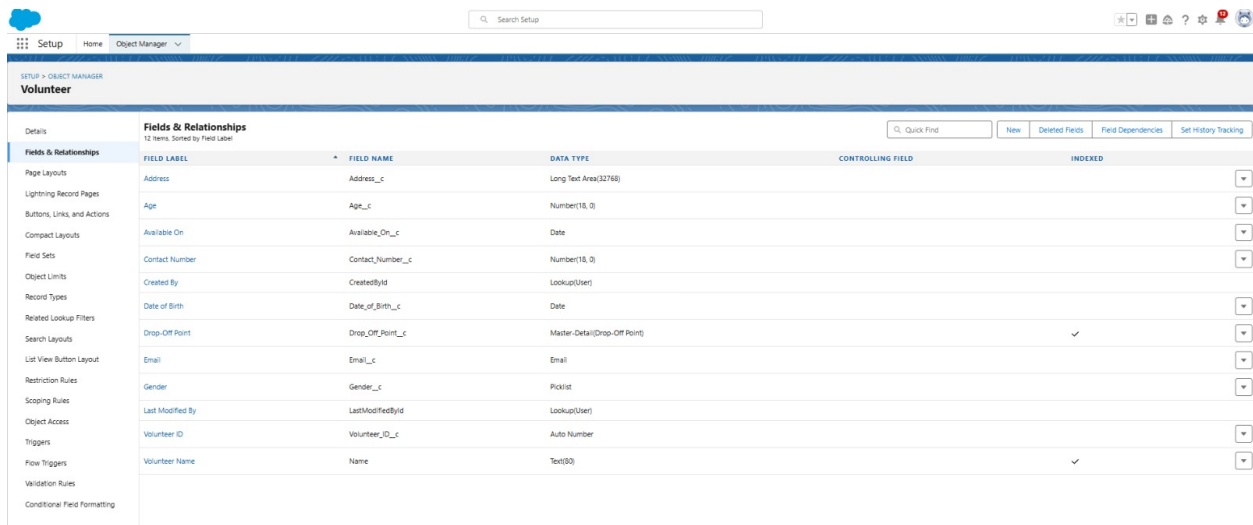
execution details with a specific volunteer. FOOD

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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.

Q Search Setup

Details	**Fields & Relationships**	Quick Find New Deleted Fields Field Dependencies Set History Tracking
Fields & Relationships	6 Items, Sorted by Field Label	

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	LastModifiedById	Lookup(User)			
Task	Task__c	Master-Detail(Task)		✓	▾
Volunteer	Volunteer__c	Master-Detail(Volunteer)		✓	▾

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  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.
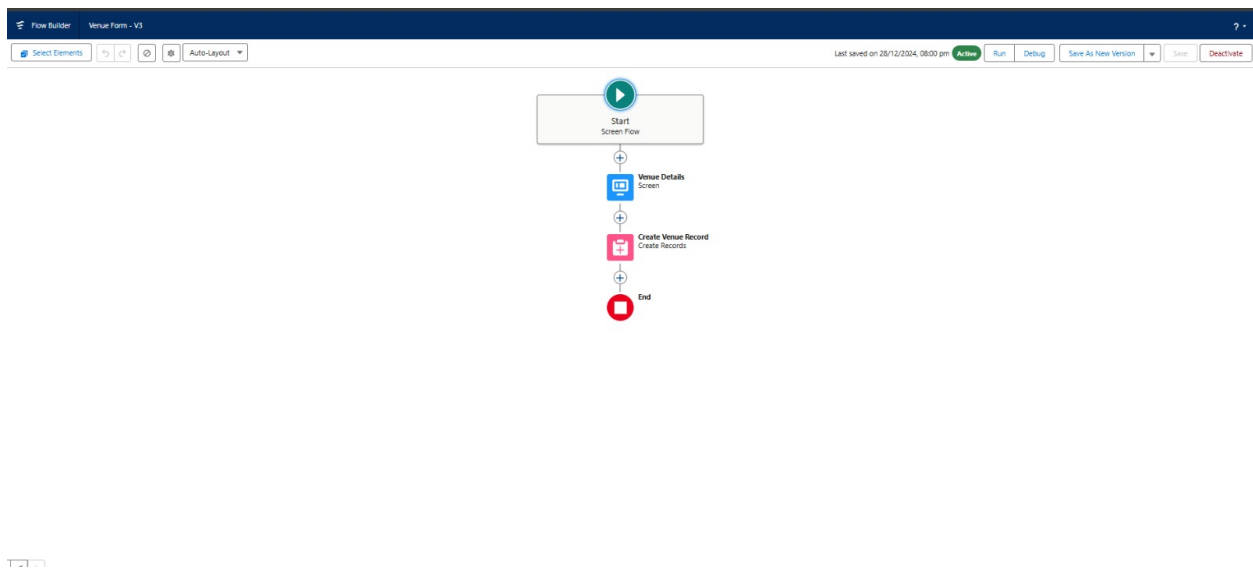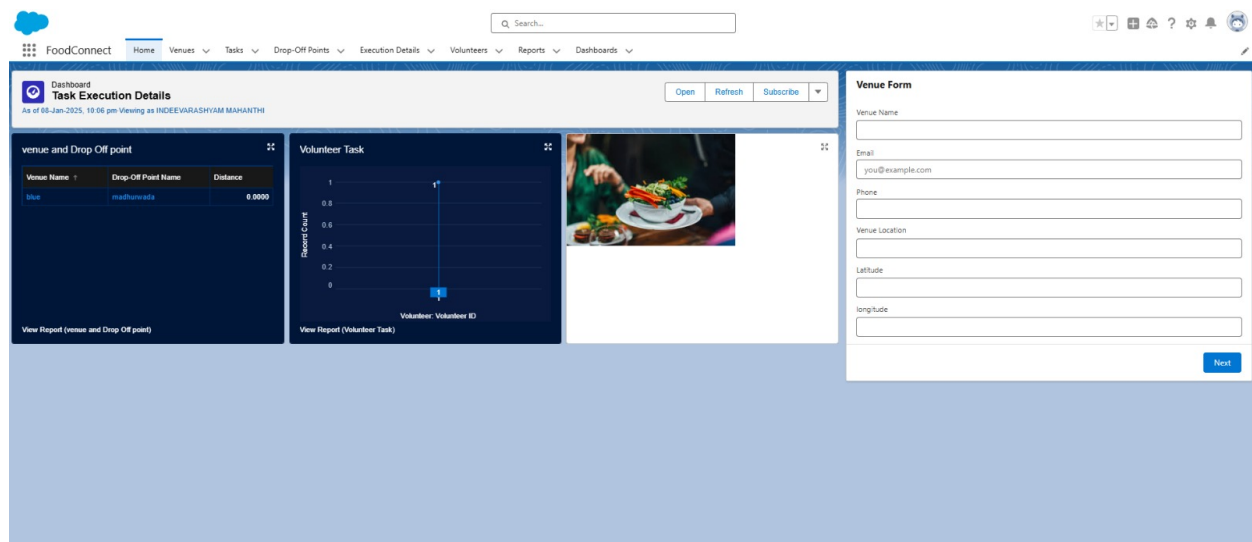
ii.   Dashboard:

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
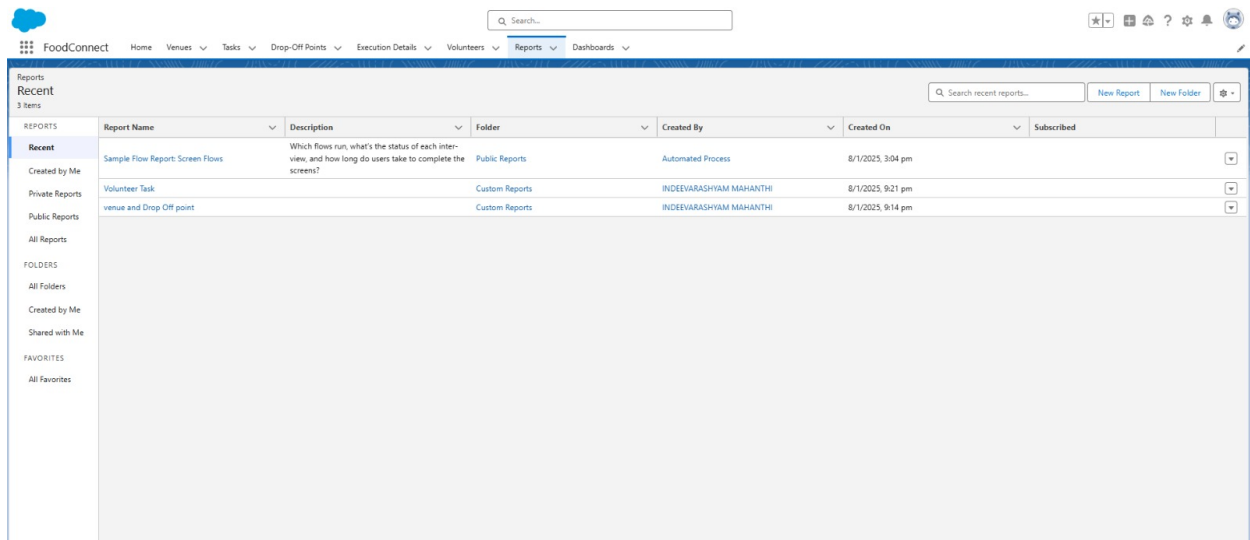
access for different public groups.

    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.