Project Title: To Supply Leftover Food to Poor

Category: Salesforce

Skills Required: Salesforce Developer

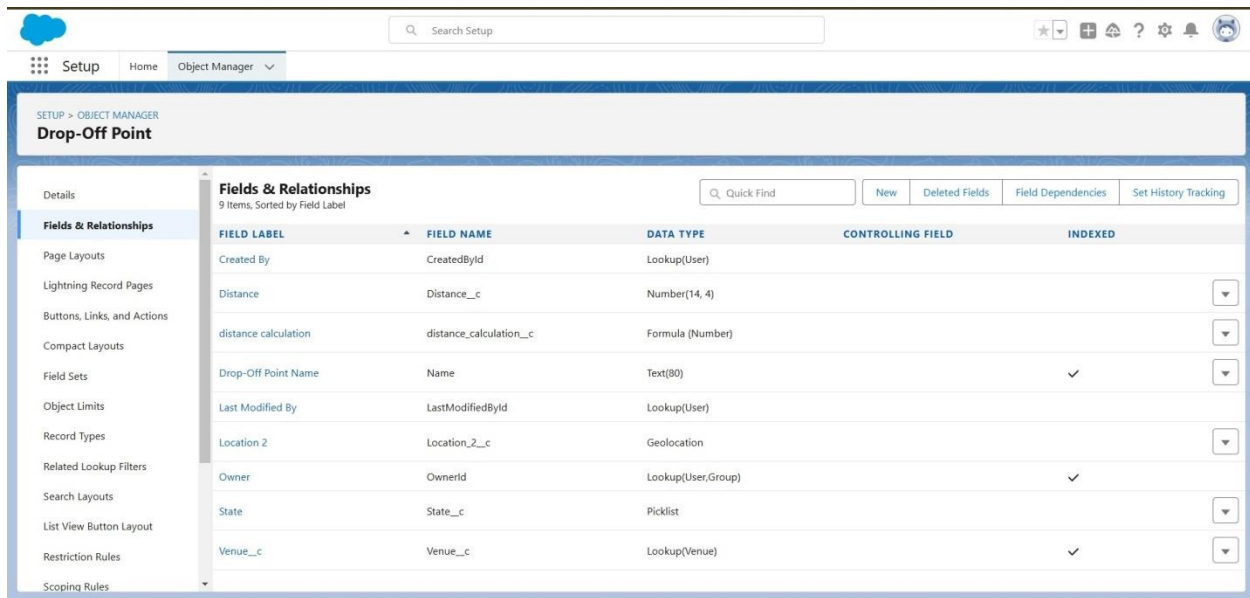**Project Overview**

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.

2. Detailed Description of Implemented Features

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-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 drop-off 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.
    - **A** ssigned 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 tasks 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.
    - **Task:** A master-detail relationship field linking to the Task object to associate execution details with a specific task.
    - **D etails:** A text field for additional information about the execution.
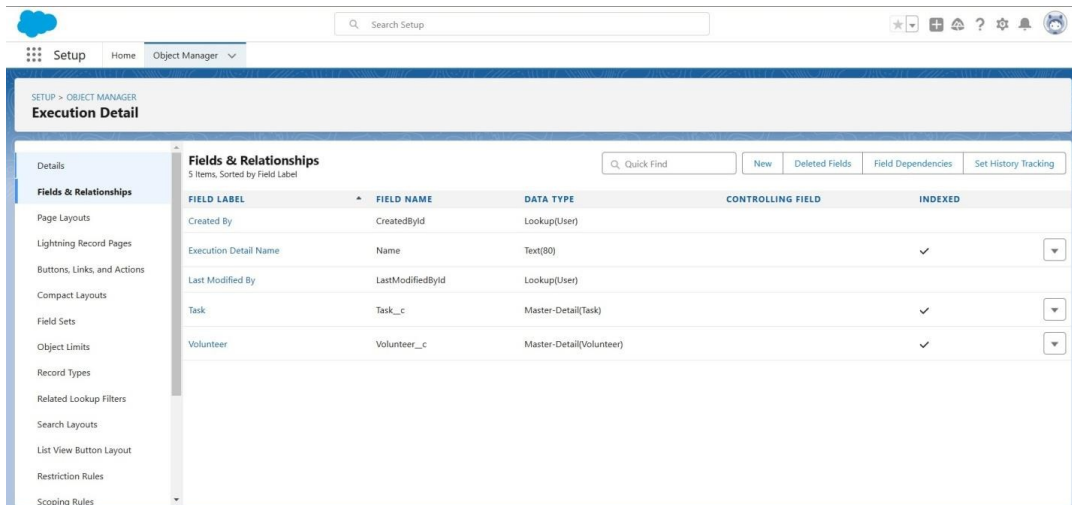
Object Relationships:

- **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.

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.
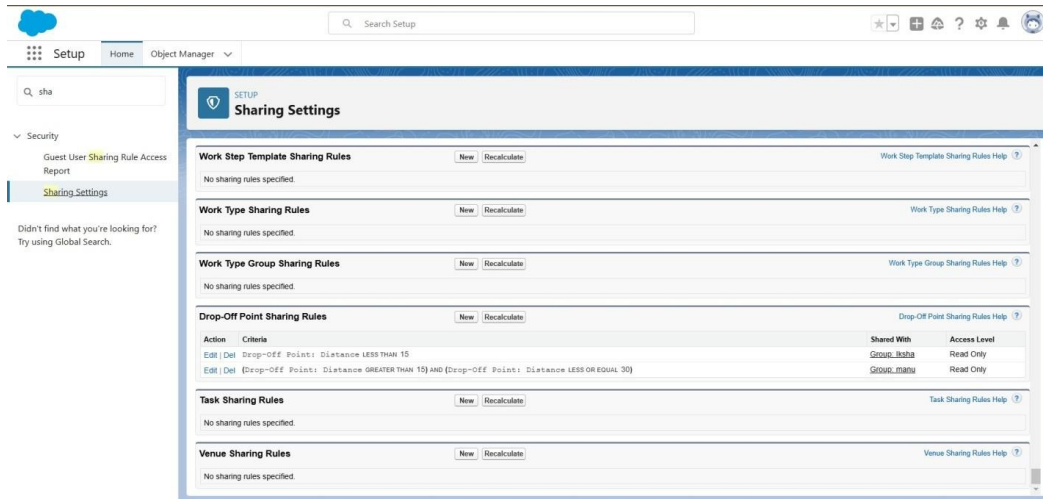
Flow and Dashboard:

- **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.
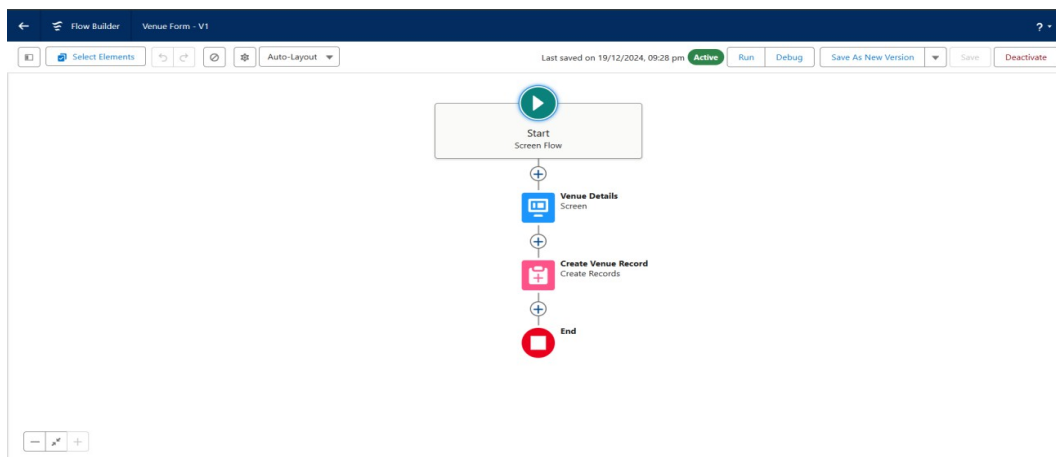
Dashboard:

- **Name:** Organization Details
- **Components:**
  - **Lightning Table:** Displays detailed information about venues and drop-off points, facilitating a comprehensive view of the data.
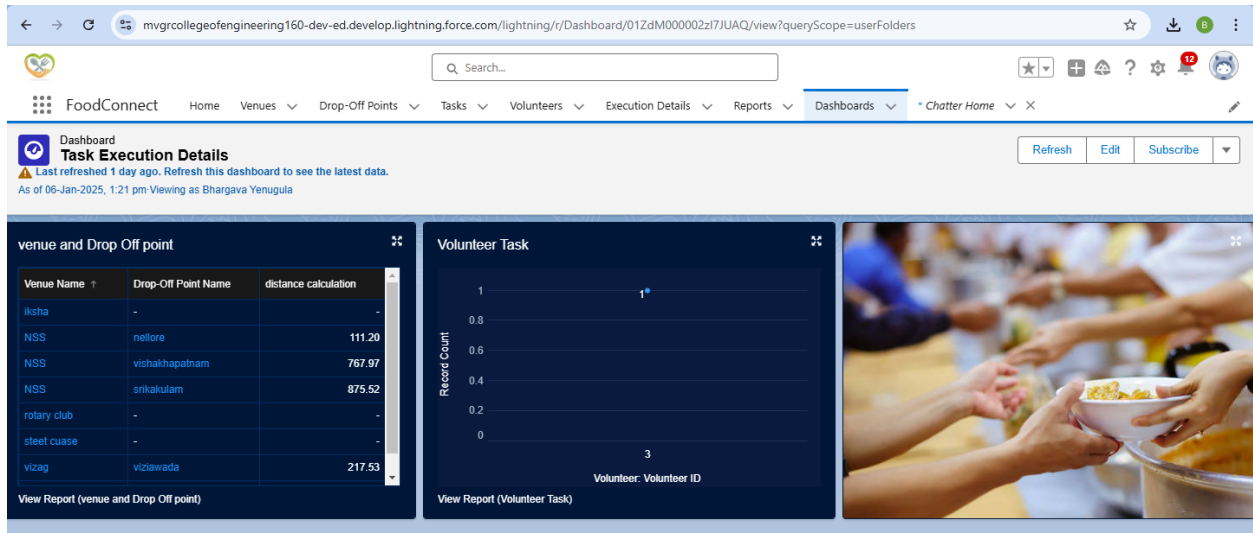
1. **3. Configuration and Setup**

   Instructions

- **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.
- **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.
- **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.

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 analyze relevant data.

- **3. Dashboards:**

  - Configure dashboards to visualize 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.