

Project Title: To Supply Leftover Food to Poor

Salesforce ID: samreenmd658@gmail.com

College Name: ST PETERS ENGINEERING COLLEGE

SUBMITTED BY: SAMREEN

DOCUMENTATION

1. Project Overview

This section summarizes the purpose and scope of your project explains what your project aims to achieve:

- a. **Goal:** To streamline the process of leftover food distribution using Salesforce.
- b. **Impact:** Reducing food waste and addressing hunger by efficiently managing food drop-off points, tasks, and volunteers.
- c. **Technology:** Salesforce provides the tools to manage records, work flows, and data visualization, making the process seamless.

2.Objectives

Defines measurable and actionable goals for the project.

Business Goals:

- d. What organizational or societal issue the project addresses (e.g., food waste, hunger).

- e. How the project will improve operations, transparency, or accountability.

Specific Outcomes:

- f. These are tangible deliverables (e.g., custom objects, reports, flows) created during the project.

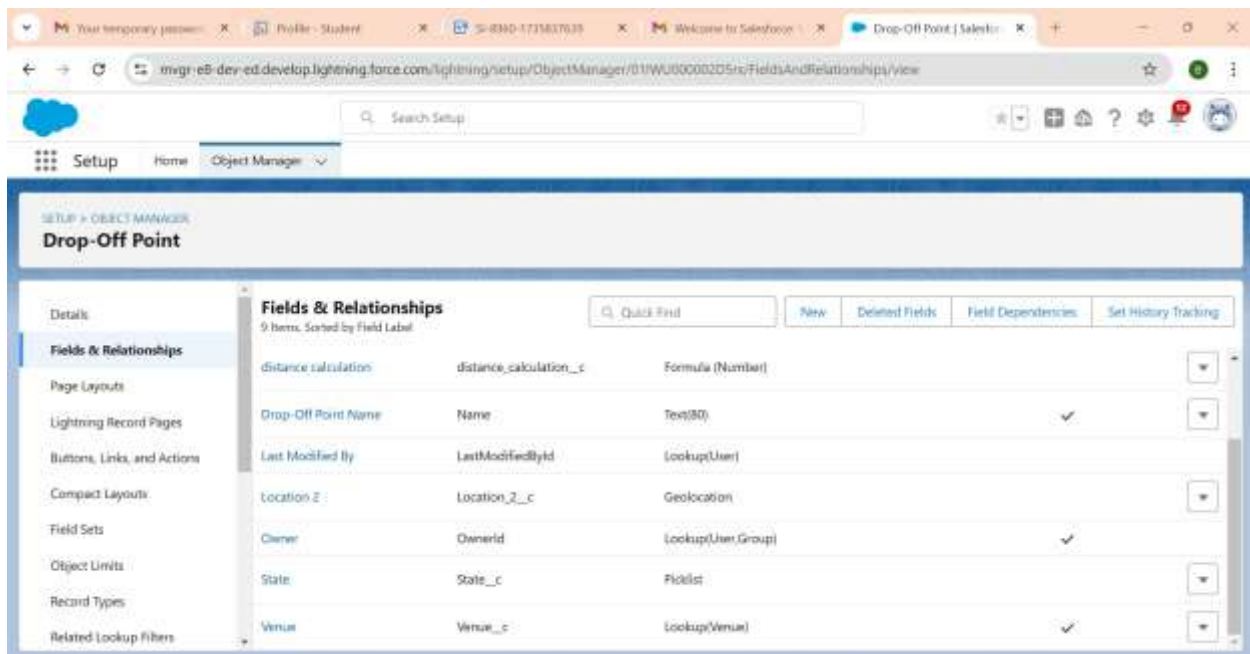
Objects created :

1. Drop-Off Point:

- a. **Purpose:** The Drop-Off Point object capture esessential details about locations where food is dropped off. This helps in tracking and managing food distribution points effectively.

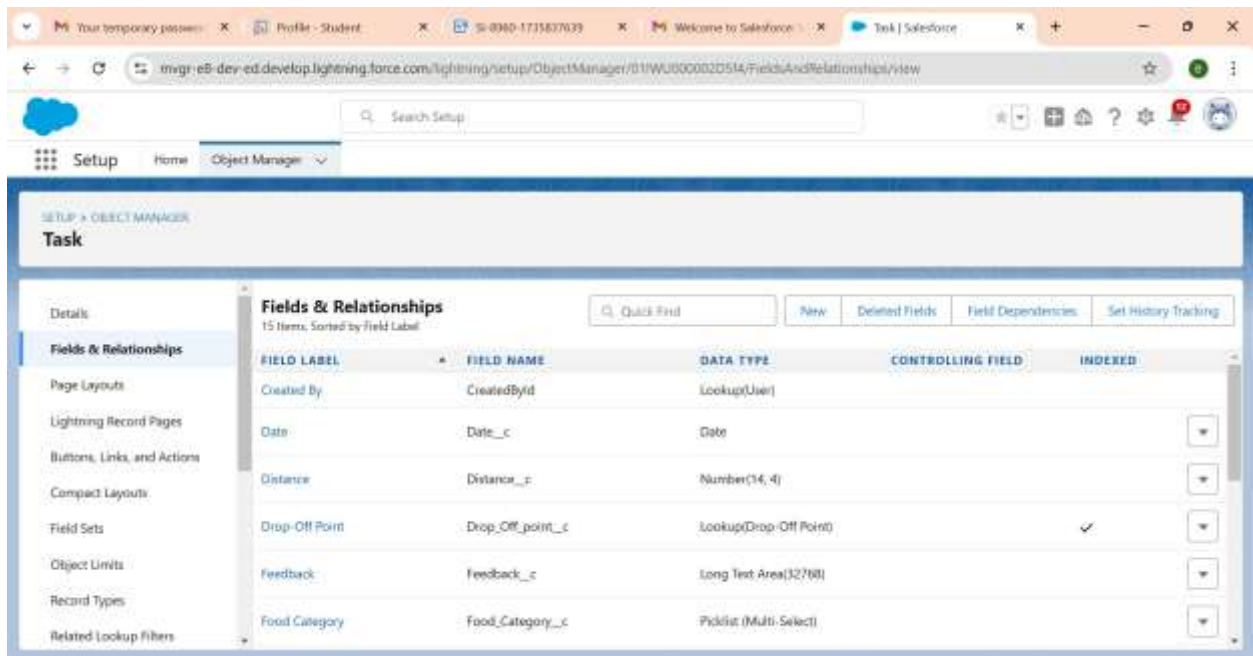
b. **Fields:**

- **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:

- c. 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.
- d. 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 specific drop-off points.
 - Sponsored By: A lookup relationship eld linking to the Drop-Off Point object to indicate the sponsor of the task.



The screenshot shows the Salesforce Setup interface for the Task object. The left sidebar contains navigation links: Details, Fields & Relationships (selected), Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, and Related Lookup Filters. The main content area is titled 'Task' and shows the 'Fields & Relationships' section with 15 items, sorted by Field Label. The table lists the following fields:

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)		

2.Volunteer:

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

f. **Fields:**

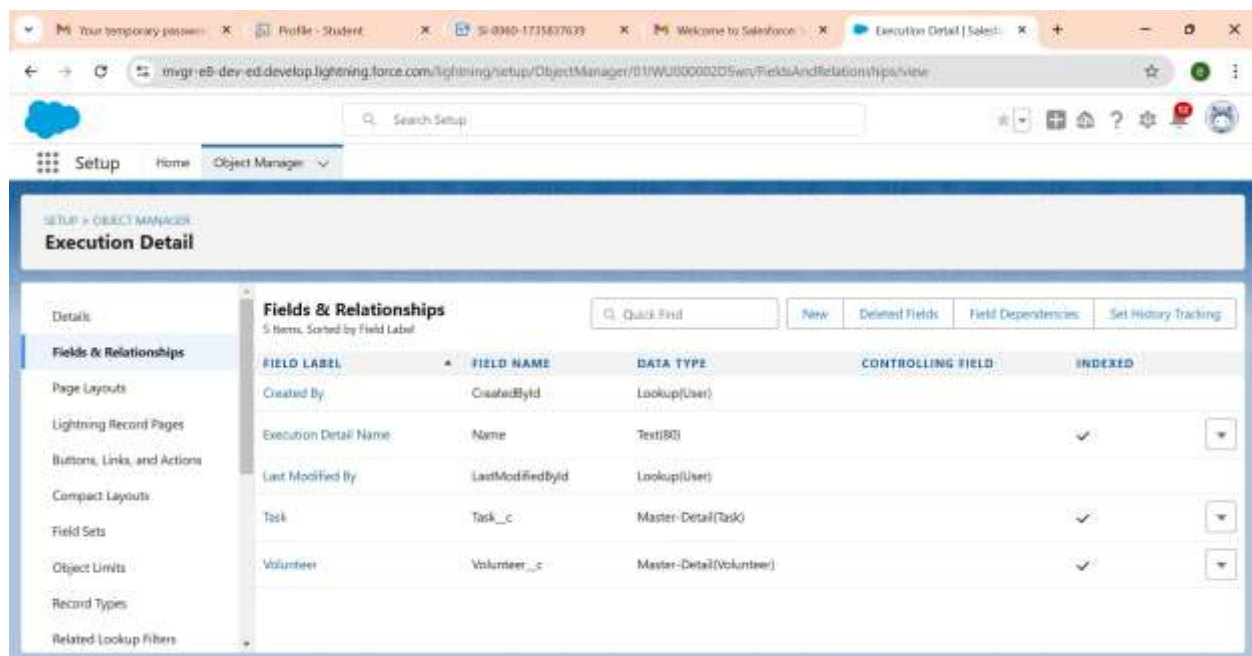
- Volunteer Name: A text field for the name of the volunteer.
- Contact Email: An email field for the volunteer's contact email.
- Contact Phone: A phone field for the volunteer's contact number.
- Assigned Tasks: A related list showing tasks assigned to the volunteer.

The screenshot shows the Salesforce Setup console for the 'Volunteer' object. The left sidebar lists various setup options, with 'Fields & Relationships' selected. The main content area displays a table of fields for the Volunteer object, sorted by field label. The table includes columns for Field Label, Field Name, Data Type, Controlling Field, and Indexed status. The fields listed are Address, Age, Available On, Contact Number, Created By, and Date of Birth.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Address	Address__c	Long Text Area(32768)		
Age	Age__c	Number(18, 0)		
Available On	Available_On__c	Date		
Contact Number	Contact_Number__c	Number(18, 0)		
Created By	CreatedById	Lookup(User)		
Date of Birth	Date_of_Birth__c	Date		

2. 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:
 - 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. Salesforce Key Features and Concepts Utilized

Custom Objects:

These are specific data structures you create in Salesforce to store information.

For your project:

- g. **Drop-Off Points:** Records details of food collection locations.
- h. **Tasks:** Tracks what needs to be done and who is responsible.
- i. **Volunteers:** Manages contact information and task assignments.
- j. **Execution Details:** Links volunteers and tasks for each food distribution.

Relationships:

Defines how these objects interact with each other:

- k. **Master-Detail Relationship:** A strict relationship where a child object (e.g., Execution Detail) depends on its parent (Volunteer or Task).
- l. **Lookup Relationship:** A more flexible connection, such as Drop-Off Points being associated with Venues.

Sharing Rules:

These control who can view or edit records. Your project uses criteria-based sharing (e.g., by distance).

Sharing Settings

Setup

Search Setup

Security

Guest User Sharing Rule Access Report

Sharing Settings

Didn't find what you're looking for? Try using Global Search

Sharing Settings

Work Type Group Sharing Rules

No sharing rules specified.

Drop-Off Point Sharing Rules

Action	Criteria	Shared With	Access Level
Edit Del	Drop-Off Point: Distance less than 10	Group: Bob	Read/Write
Edit Del	Drop-Off Point: Distance greater than 10 AND Drop-Off Point: Distance less than 30	Group: Bob	Read/Write
Edit Del	Drop-Off Point: Distance greater than 30 AND Drop-Off Point: Distance less than 50	Group: Bob	Read/Write

Task Sharing Rules

No sharing rules specified.

Venue Sharing Rules

No sharing rules specified.

Custom Tabs

Custom Tabs

Setup

Search Setup

User Interface

Rename Tabs and Labels

Custom Tabs

Didn't find what you're looking for? Try using Global Search

Custom Tabs

You can create new custom tabs to extend Salesforce functionality or to build new application functionality.

Custom Object tabs look and behave like the standard tabs provided with Salesforce. Web tabs allow you to embed external web applications and content within the Salesforce window. Visualforce tabs allow you to embed Visualforce pages. Lightning Component tabs allow you to add Lightning components to the navigation menu in Lightning Experience and the mobile app. Lightning Page tabs allow you to add Lightning Pages to Lightning Experience and the mobile app.

Custom Object Tabs

Action	Label	Tab Style	Description
Edit Del	Drop-Off Points	Apple	
Edit Del	Execution Details	Computer	
Edit Del	Tasks	Tablet	
Edit Del	Venues	Phone	
Edit Del	Workbooks	Tablet	

Flows and Dashboards:

- m. **Flow:** Automates data entry and processes, like recording venue details.
- n. **Dashboards:** Summarize and visualize key metrics, such as the number of drop-offs or task completion rates.

A tab is like a user interface that is used to build records for objects and to view the records in the objects.

3. Detailed Steps to Solution Design

Describes how the solution was built, step-by-step:

Custom Object Creation:

- o. Each object (like Drop-Off Point or Volunteer) was created in Salesforce's Object Manager, with specific fields and relationships defined.

Sharing Rules:

- p. Configured in Sharing Settings to ensure the right people(Iksha, NSS, etc.) have access based on distance.

Lightning App Builder Configuration:

- q. Created a "Home Page" that includes flows and dashboards for easier navigation.

Report Types and Dashboards:

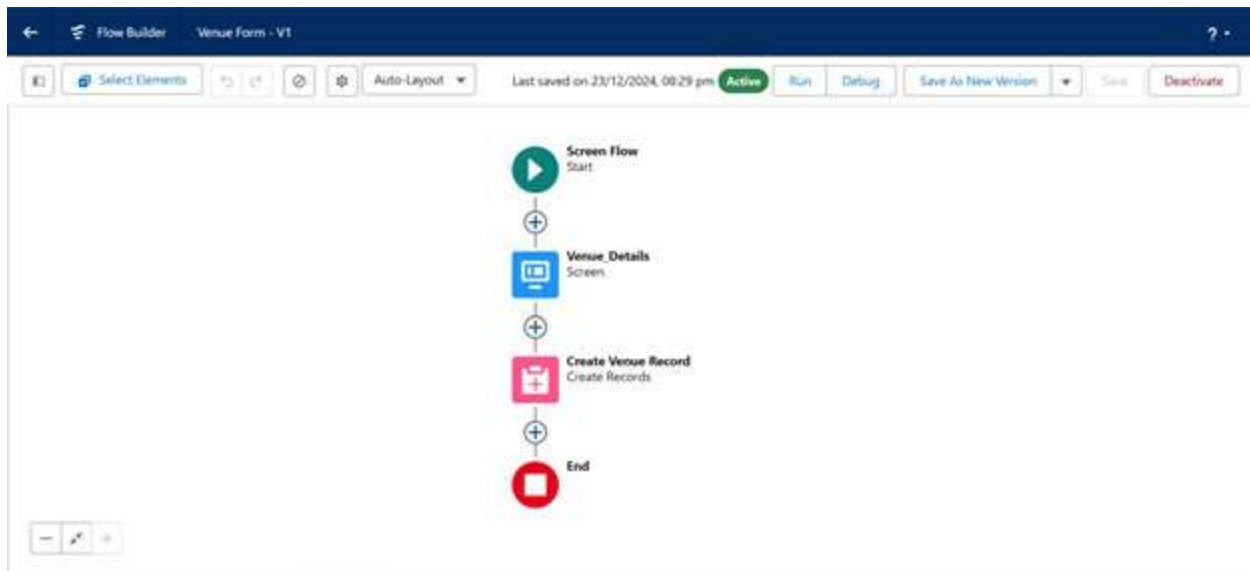
- r. Custom reports link different objects for analysis, and

dashboards present this data in an easy-to-understand format.

Flows Diagram

1. Flow: Venue Flow

- a. Purpose: To manage and capture detailed information related to food drop-off points.
- b. 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.



1. Dashboard:

- a. **Name:** Task Execution Details

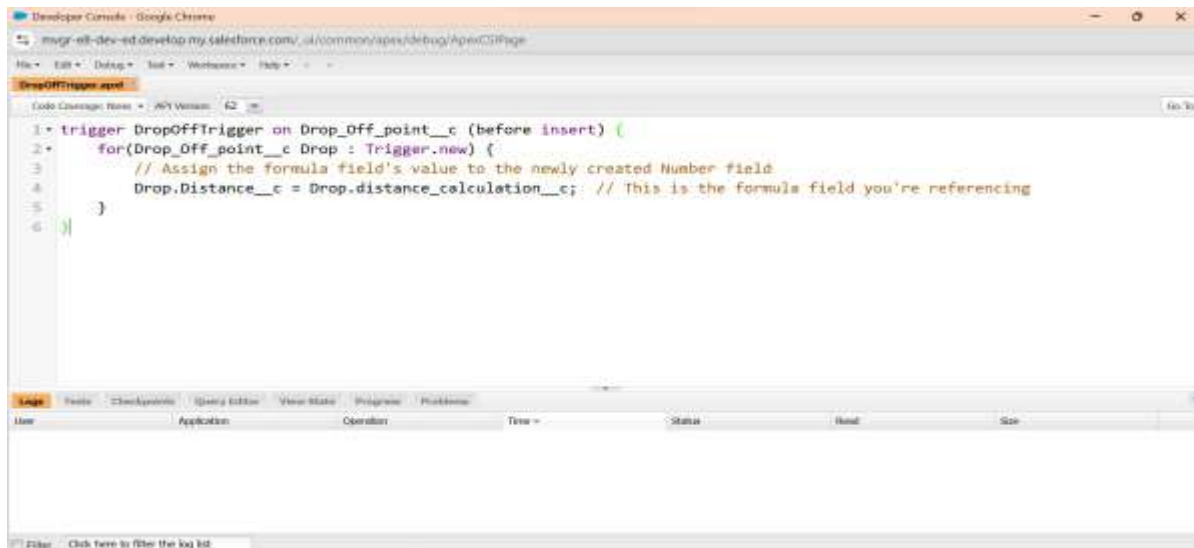
b. Components:

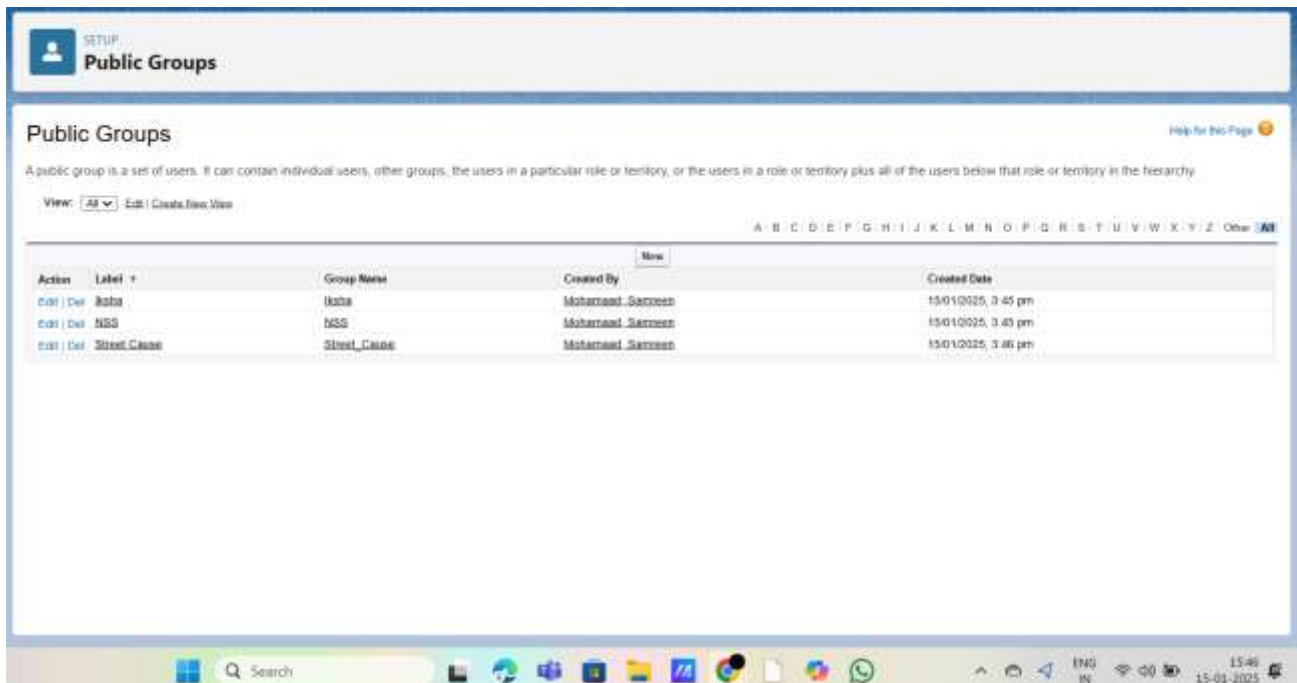
Lightning Table: Displays detailed information about venues and drop-off points, facilitating a comprehensive view of the data.

4. Testing and Validation

Ensures that the system works as intended:

- a. Unit Testing: Verifies that each component (e.g., Apex triggers, workflows) operates correctly.
- b. UI Testing: Checks the user interface for errors or usability issues.



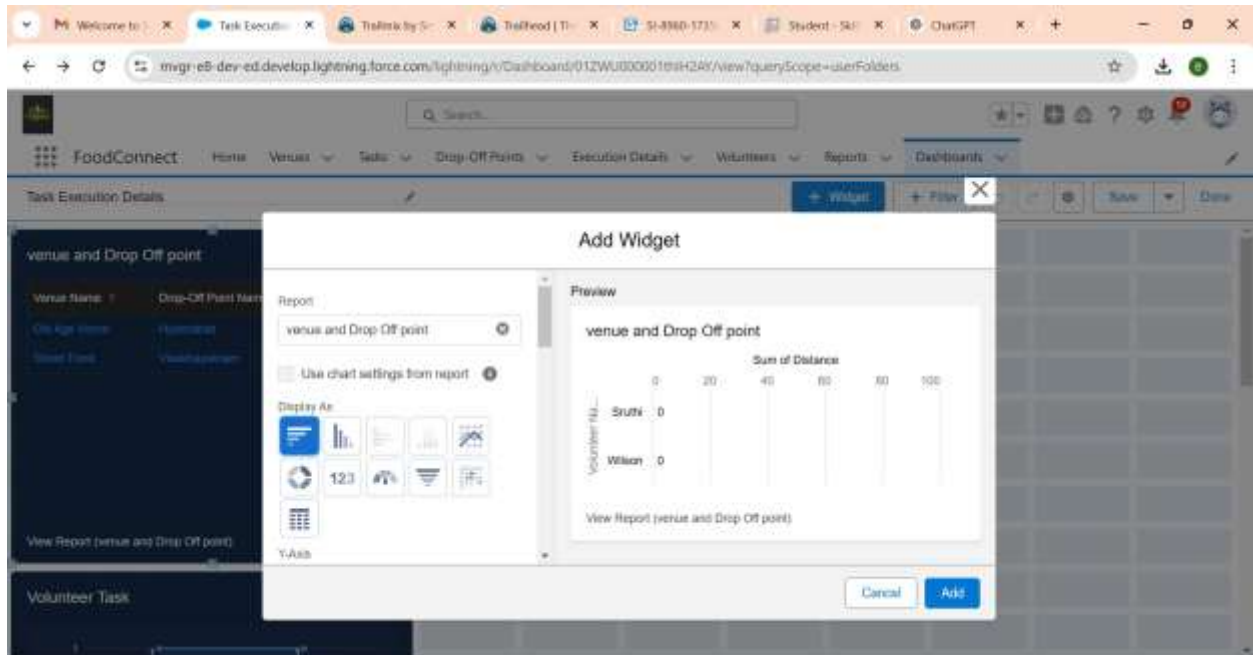


5. Key Scenarios Addressed by Salesforce

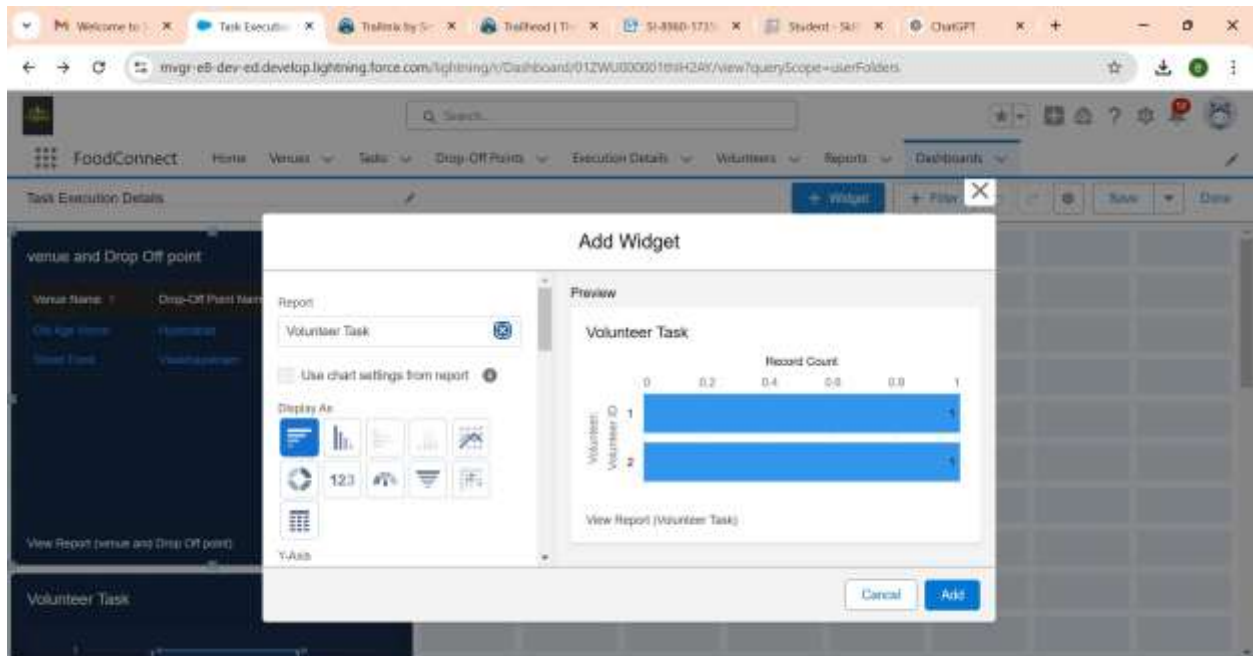
This is a use-case analysis showing how the project addresses real-world challenges:

- Food Distribution Coordination: Tracks where food is dropped off and which tasks are related.
- Volunteer Management: Links tasks to specific volunteers for accountability.
- Data Visibility: Dashboards and reports provide insights into operations, helping improve decision-making

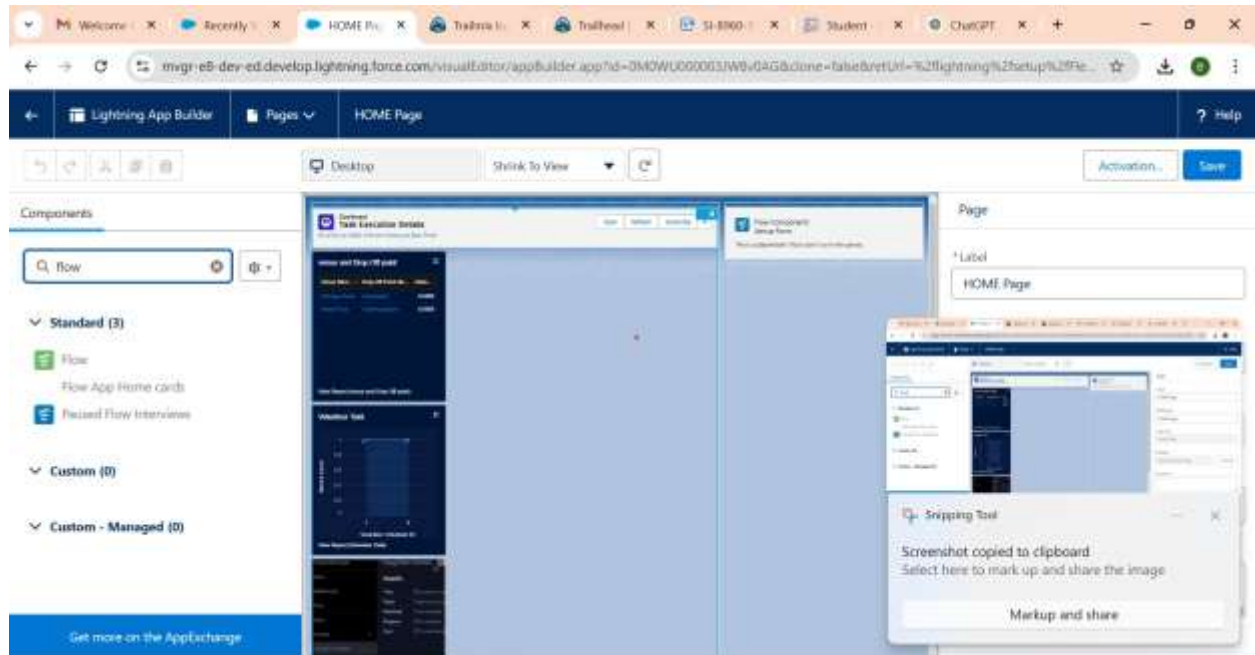
Adding Venue and Drop Off Point Report to The Dashboard



Adding Volunteer Task Graph to the Dashboard



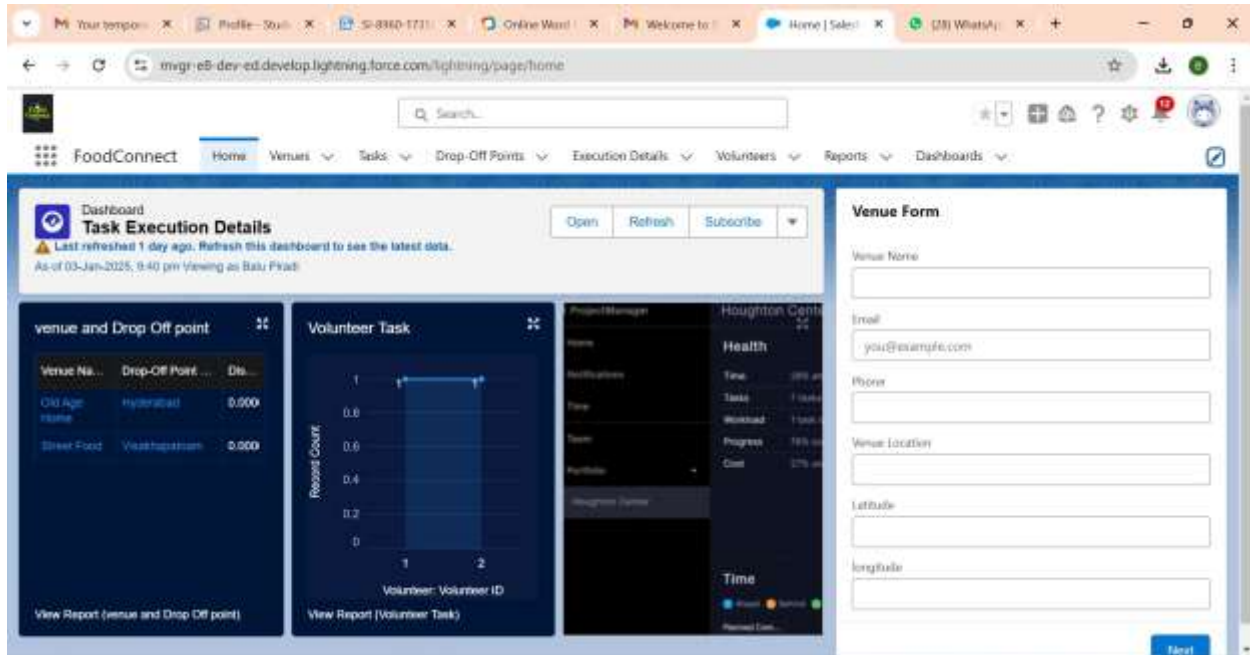
Adding Flow to Home page using Lightning app Builder



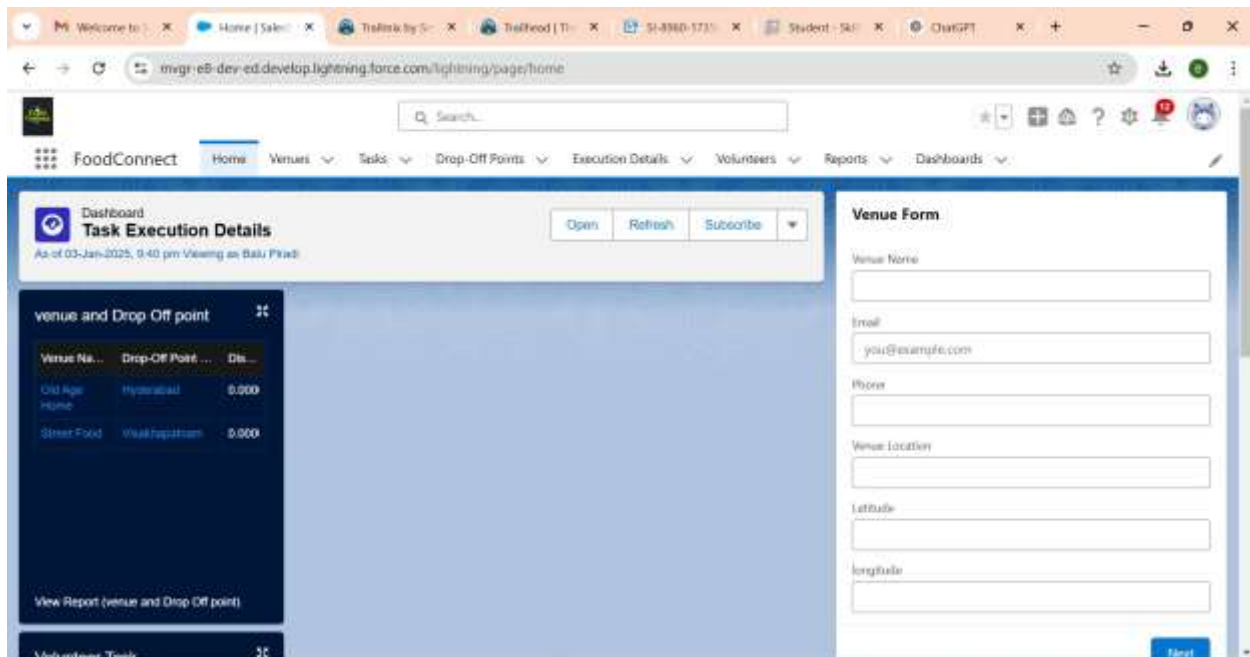
6. Conclusion

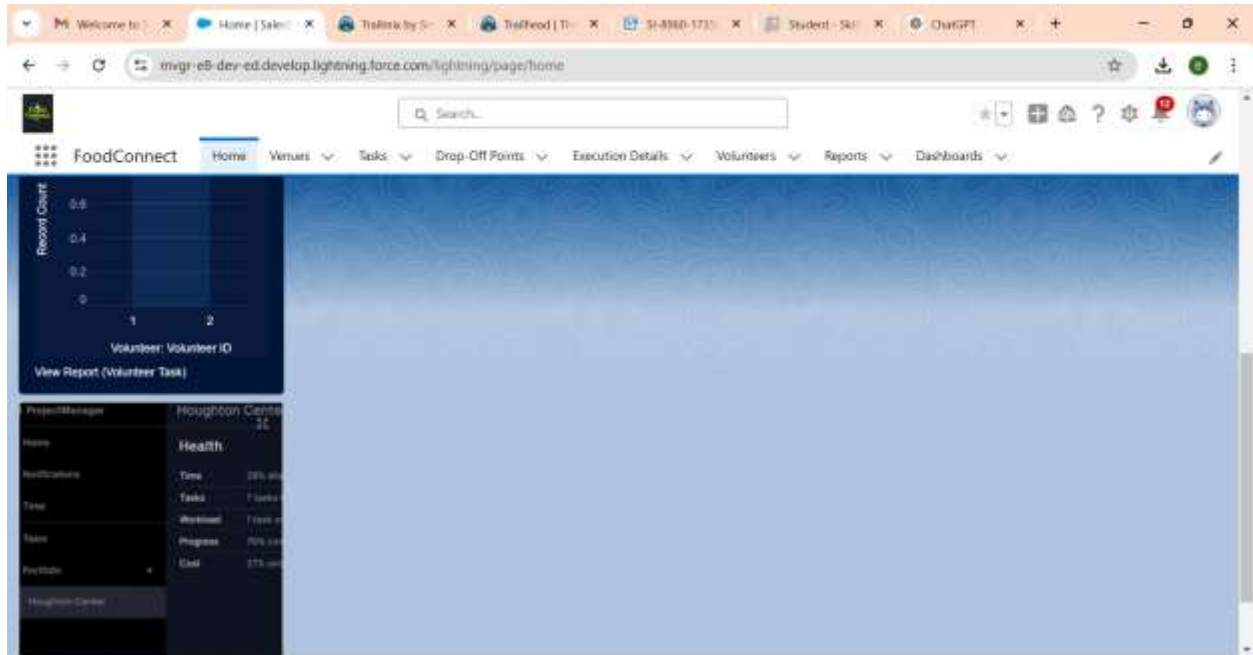
A brief summary of what the project achieved:

- a. Outcome: A functional Salesforce application that enhances food distribution efficiency.
- b. Impact: Improved coordination and transparency in food donation efforts.



Home Page (Long Screenshot)





By leveraging the Salesforce platform ,the project successfully established a streamlined and transparent system for managing surplus food donations. Through efficient coordination with volunteers and timely delivery to beneficiaries, the project effectively addressed food insecurity while maximizing the utilization of available resources.