Project Title: To Supply Leftover Food to Poor

Category: Salesforce

Skills Required: Salesforce Developer

1.Project Overview

This section summarizes the purpose and scope of your project.It 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-offpoints, tasks, and volunteers.

c. **Technology:** Salesforce provides the tools to manage records,workflows, 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 projectaddresses (e.g., food waste, hunger).

e. How the project will improveoperations, transparency, or accountability.

Specific Outcomes:

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

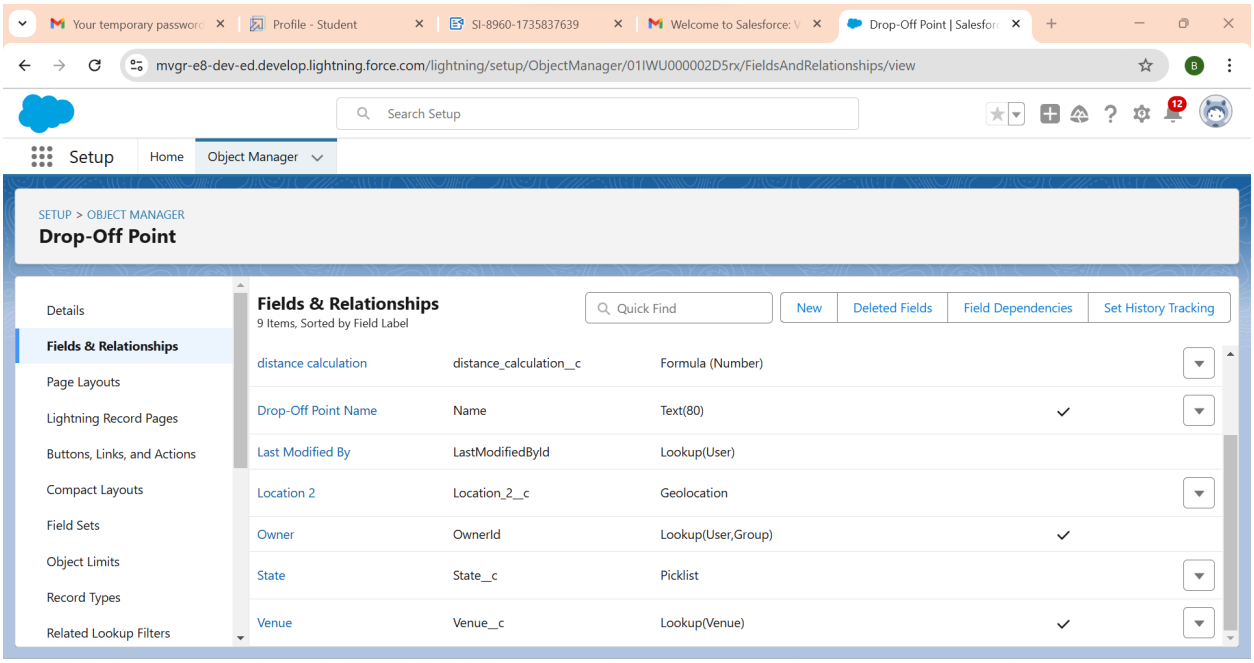
Objects created :

1. Drop-Off Point:

a. **Purpose:** The Drop-OffPoint object capturesessential details about locations where food is dropped off.Thishelps in trackingand managing food distribution points effectively.

b. Fields:

- **Drop-OffPoint Name:** A text eld representing the name of the drop-offpoint.
- **Location Details**: A text eld for additionaldetails about the drop-off point location.
- **Distance**: A number eld that recordsthe distance from the drop-offpoint to the delivery area.
- **Venue**:A lookup relationship eld linking to the Venueobject to providea connection between drop-off points and venues.

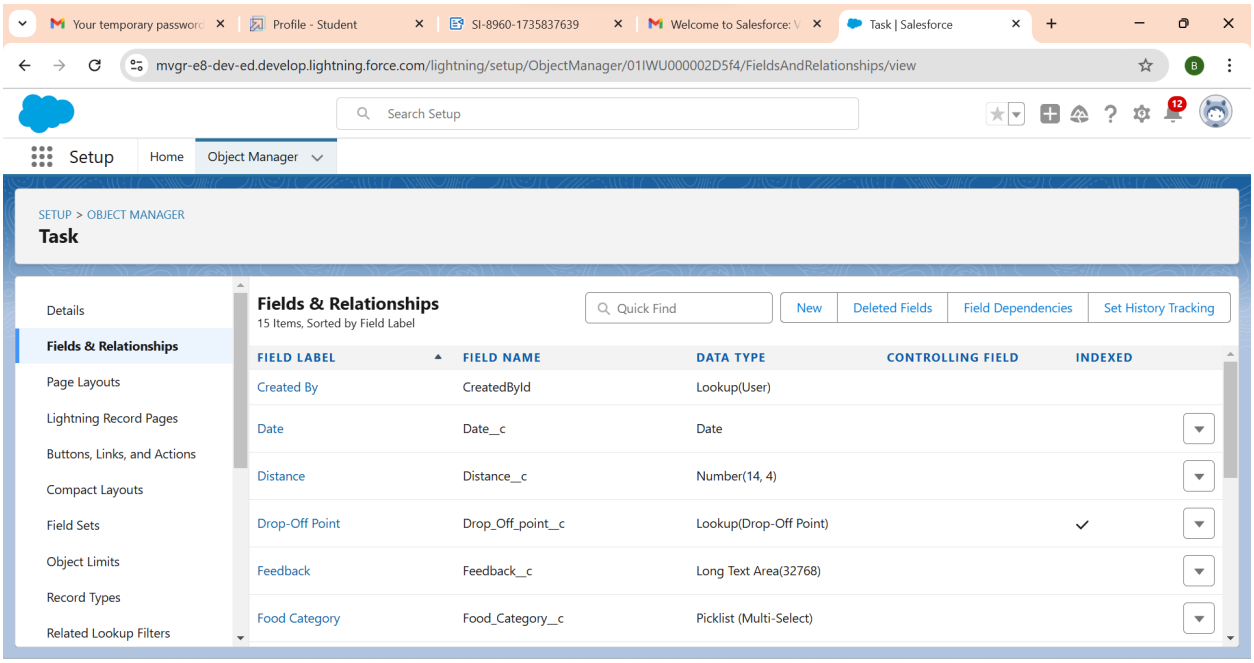


2. Task:

a. Purpose: The Task objectis used to manage and track varioustasks related to food distribution, including assigning tasks to volunteers and recording task details.

b. Fields:

- Task Name: A text eld representing the name of the task.
- Date: A date eld indicating when the task is scheduledor completed.
- Rating: A numeric eld used to rate the task performance.
- Drop-OffPoint: A lookup relationship eld linking to the Drop-Off Point object to associate tasks with specic drop-off points.
- Sponsored By: A lookuprelationship eld linkingto the Drop-Off Point object to indicate the sponsor of the task.

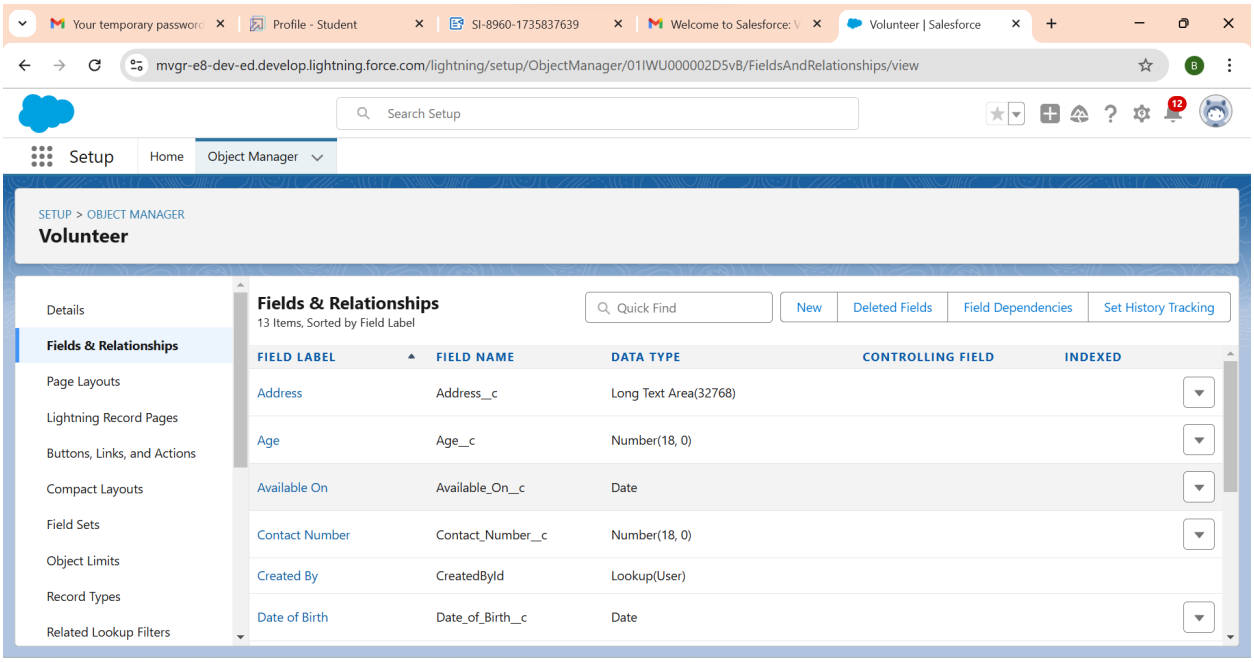


3. Volunteer:

a. **Purpose:**The Volunteer objectkeeps track of individuals who are involvedin the food distribution process, including their contact information and assigned tasks.

b. Fields:

- Volunteer Name: A text eld for the name of the volunteer.
- Contact Email: An email eld for the volunteer's contact email.
- ContactPhone: A phone eld for the volunteer's contact number.
- AssignedTasks: A related list showing tasks assigned to the volunteer.

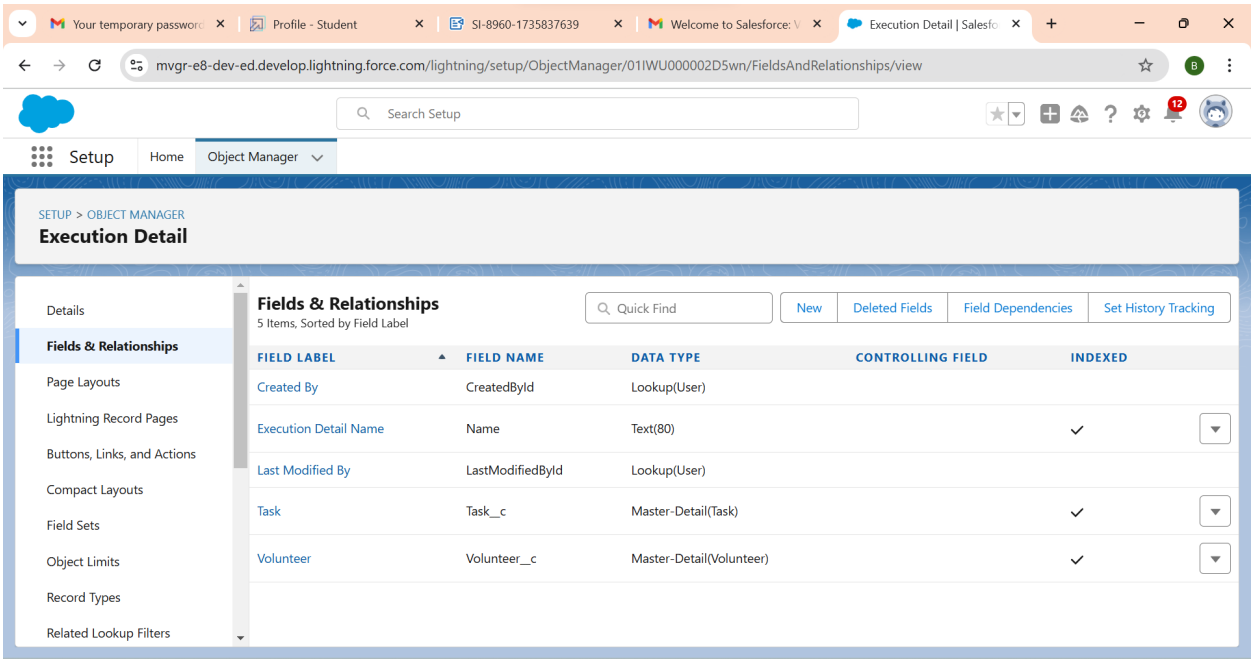


4. Execution Detail:

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 DetailName: A text eld for naming the execution detailrecord.
- 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.



3.Salesforce Key Featuresand Concepts Utilized

Custom Objects:

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

For your project:

g. **Drop-OffPoints:** Records detailsof food collection locations.

h. **Tasks:** Tracks what needs to be done and who is responsible.

i. **Volunteers:** Manages contact information and task assignments.

j. **ExecutionDetails:** Links volunteers and tasks for each food distribution.

Relationships:

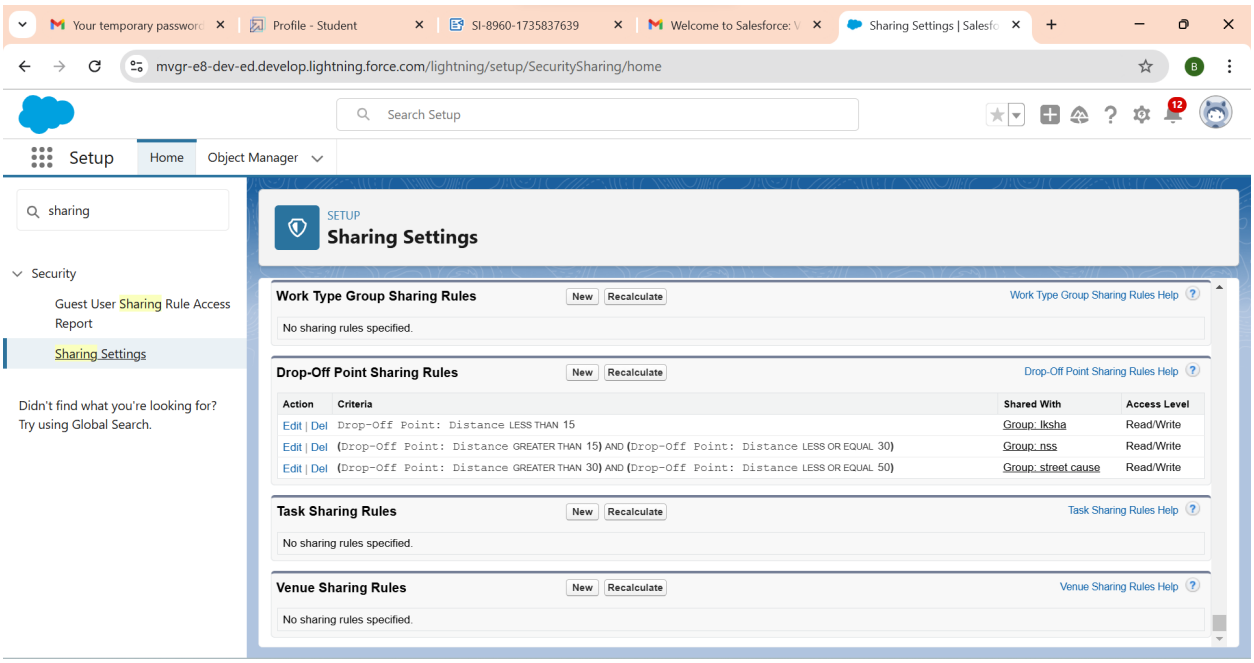
Defines how these objects interactwith each other:

k. **Master-Detail Relationship:** A strict relationship where a child object (e.g., Execution Detail) depends on its parent (Volunteer or Task).

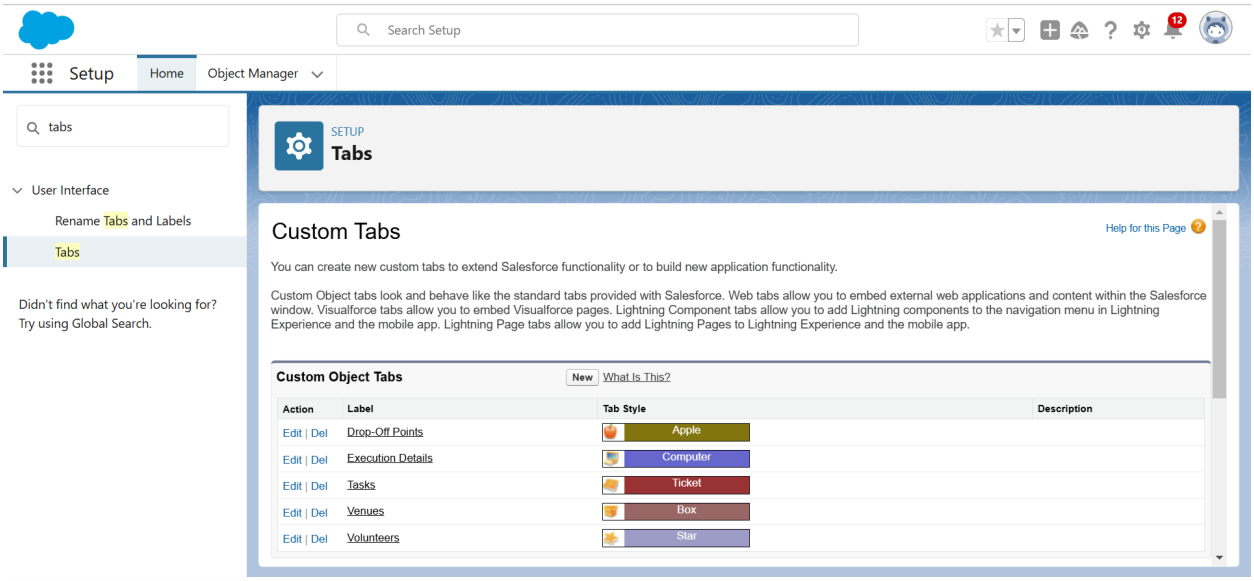
l. **Lookup Relationship**: A more flexibleconnection, such as Drop-Off Points being associated with Venues.

Sharing Rules:
These controlwho can view or edit records. Your project uses criteria-based

sharing (e.g., by distance).


Your temporary password
Profile - Student
SI-8960-1735837639
Welcome to Salesforce:
Sharing Settings | Salesfc
mvgr-e8-dev-ed.develop.lightning.force.com/lightning/setup/SecuritySharing/home
Search Setup
Setup
Home
Object Manager
sharing
Security
Guest User Sharing Rule Access Report
Sharing Settings
Didn't find what you're looking for?
Try using Global Search.
SETUP
Sharing Settings
Work Type Group Sharing Rules
New
Recalculate
Work Type Group Sharing Rules Help
No sharing rules specified.
Drop-Off Point Sharing Rules
New
Recalculate
Drop-Off Point Sharing Rules Help
Action
Criteria
Shared With
Access Level
Edit | Del
Drop-Off Point: Distance LESS THAN 15
Group: Iksha
Read/Write
Edit | Del
(Drop-Off Point: Distance GREATER THAN 15) AND (Drop-Off Point: Distance LESS OR EQUAL 30)
Group: nss
Read/Write
Edit | Del
(Drop-Off Point: Distance GREATER THAN 30) AND (Drop-Off Point: Distance LESS OR EQUAL 50)
Group: street cause
Read/Write
Task Sharing Rules
New
Recalculate
Task Sharing Rules Help
No sharing rules specified.
Venue Sharing Rules
New
Recalculate
Venue Sharing Rules Help
No sharing rules specified.

Custom Tabs


Search Setup
Setup
Home
Object Manager
tabs
User Interface
Rename Tabs and Labels
Tabs
Didn't find what you're looking for?
Try using Global Search.
SETUP
Tabs
Custom Tabs
Help for this Page
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
New
What Is This?
Action
Label
Tab Style
Description
Edit | Del
Drop-Off Points
Apple
Edit | Del
Execution Details
Computer
Edit | Del
Tasks
Ticket
Edit | Del
Venues
Box
Edit | Del
Volunteers
Star

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 recordsinthe objects.

4.Detailed Steps to SolutionDesign

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

Custom Object Creation:

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

Sharing Rules:

p. Configured in Sharing Settingsto 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 reportslink different objectsfor analysis, and

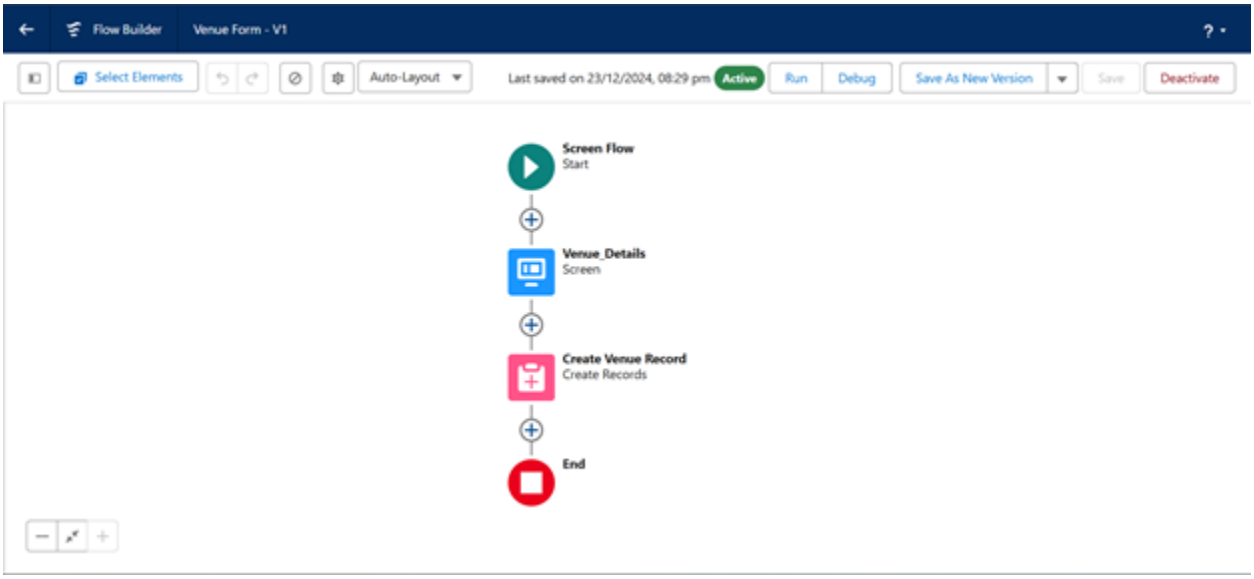
dashboards present this data in an easy-to-understand

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:

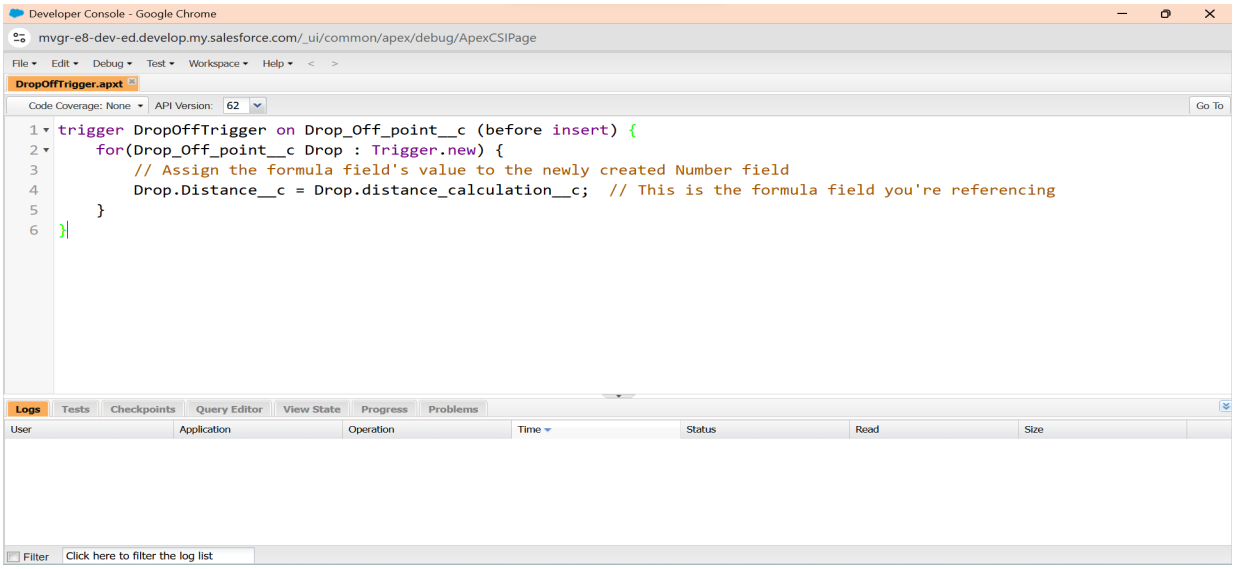
    LightningTable: Displays detailed information about venues and drop-off points, facilitating a comprehensive view of the data.

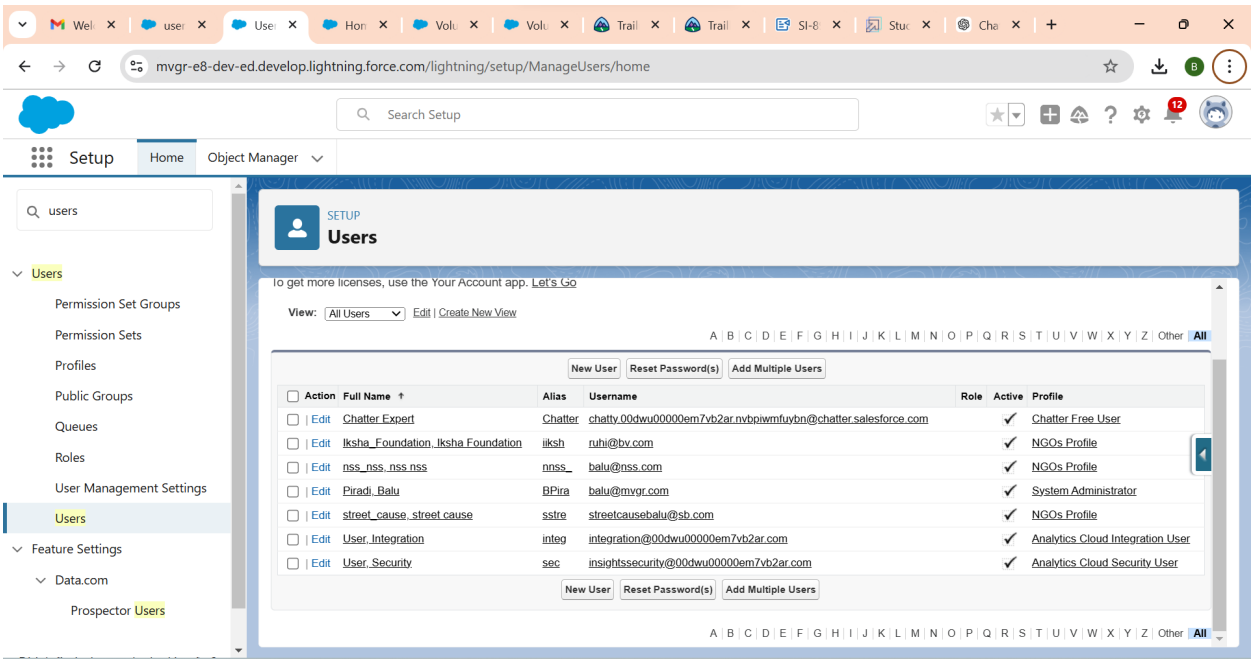
5.Testing and Validation

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.





6.Key Scenarios Addressed by Salesforce

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

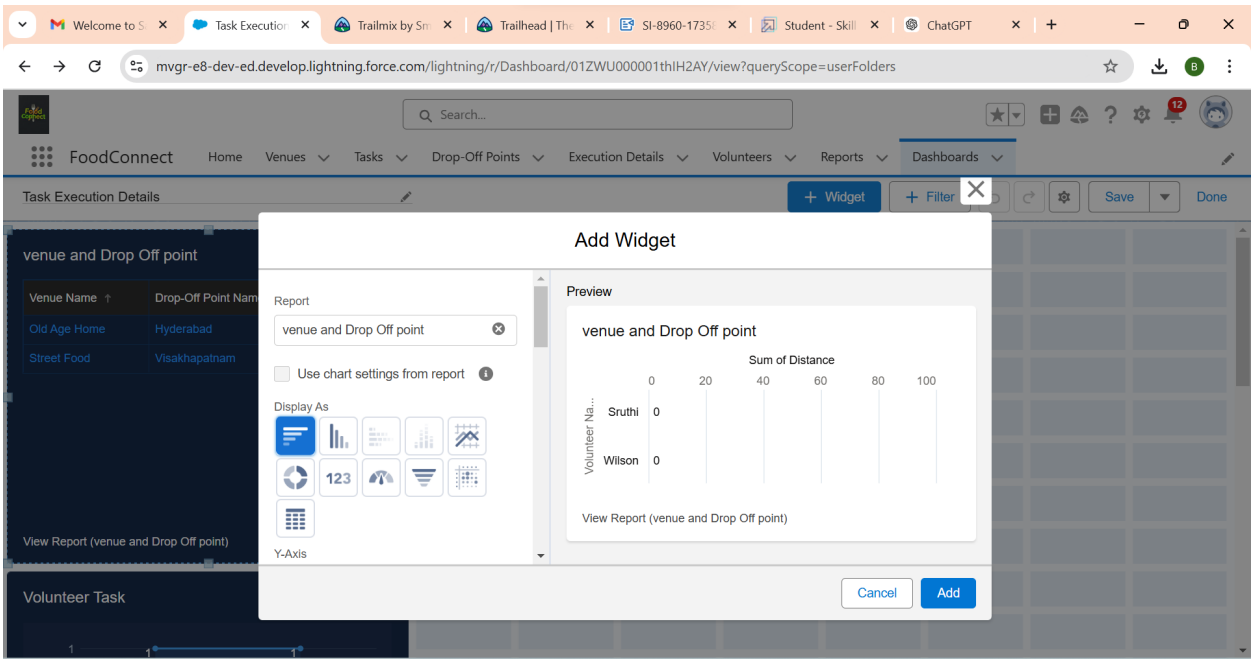
challenges:

a. Food Distribution Coordination: Tracks where food is dropped off and which tasks are related.

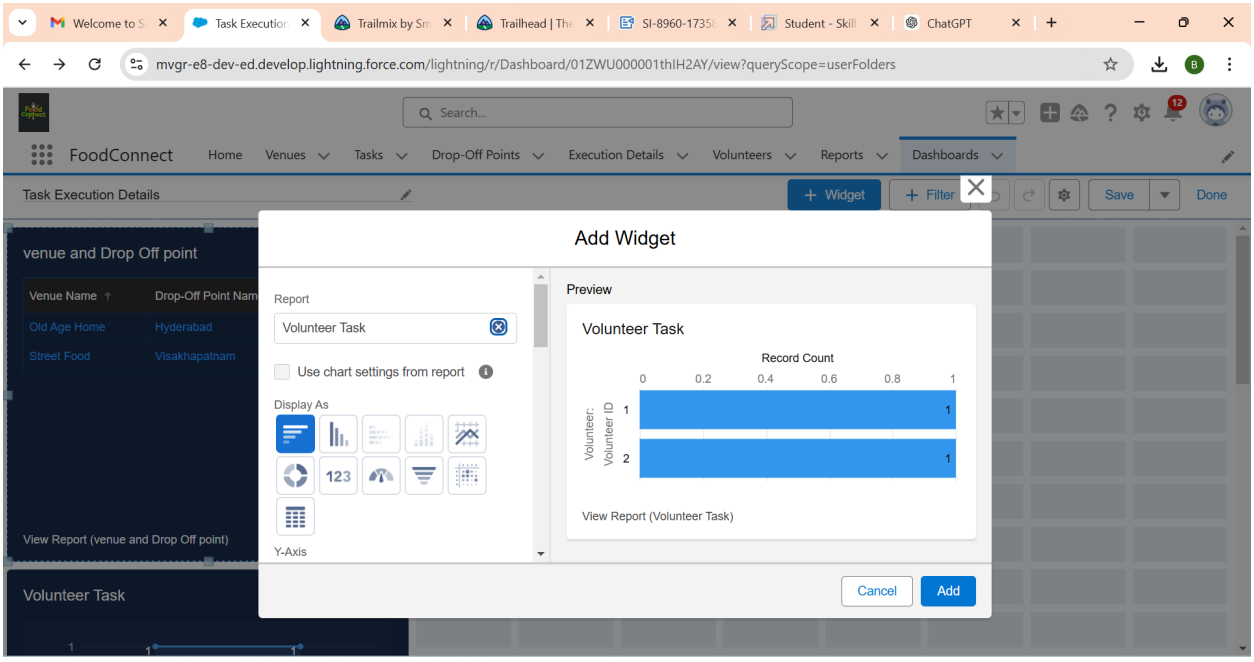
b. VolunteerManagement: Links tasks to specific volunteers for accountability.

c. Data Visibility: Dashboards and reports provide insights into operations, helping improve decision-making

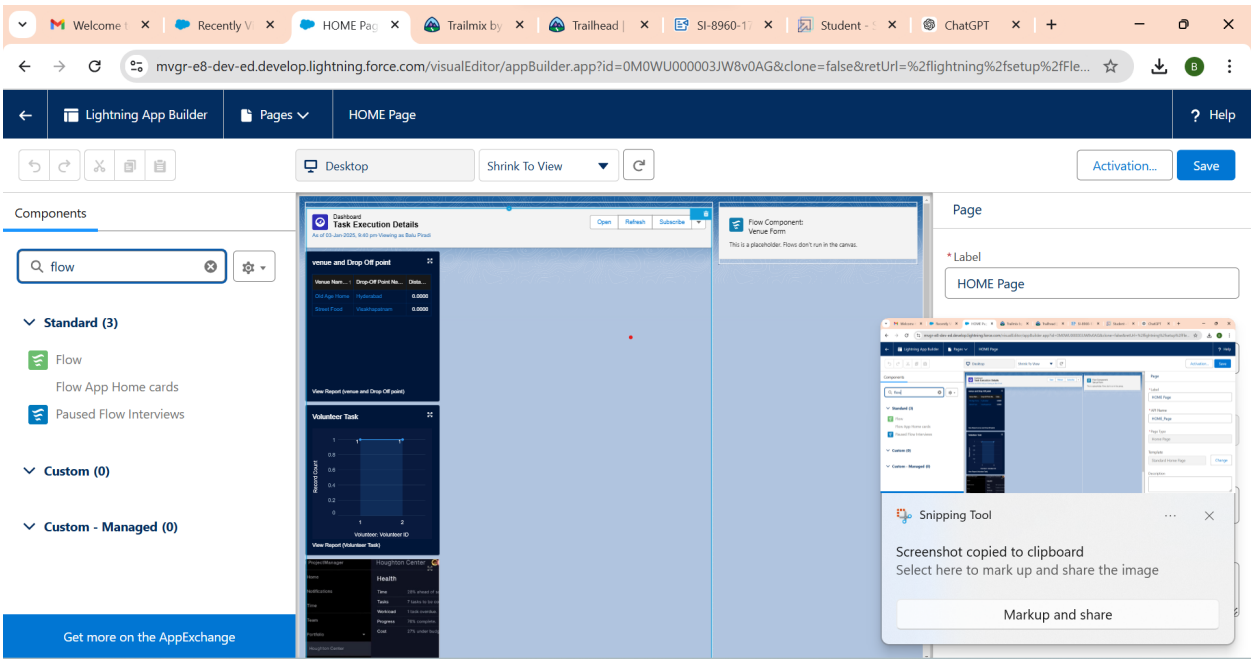
Adding Venue and Drop Off PointReport to The Dashboard



Adiding Volunteer Task Graph to the Dashboard



Adding Flow to Home page usingLighting app Builder

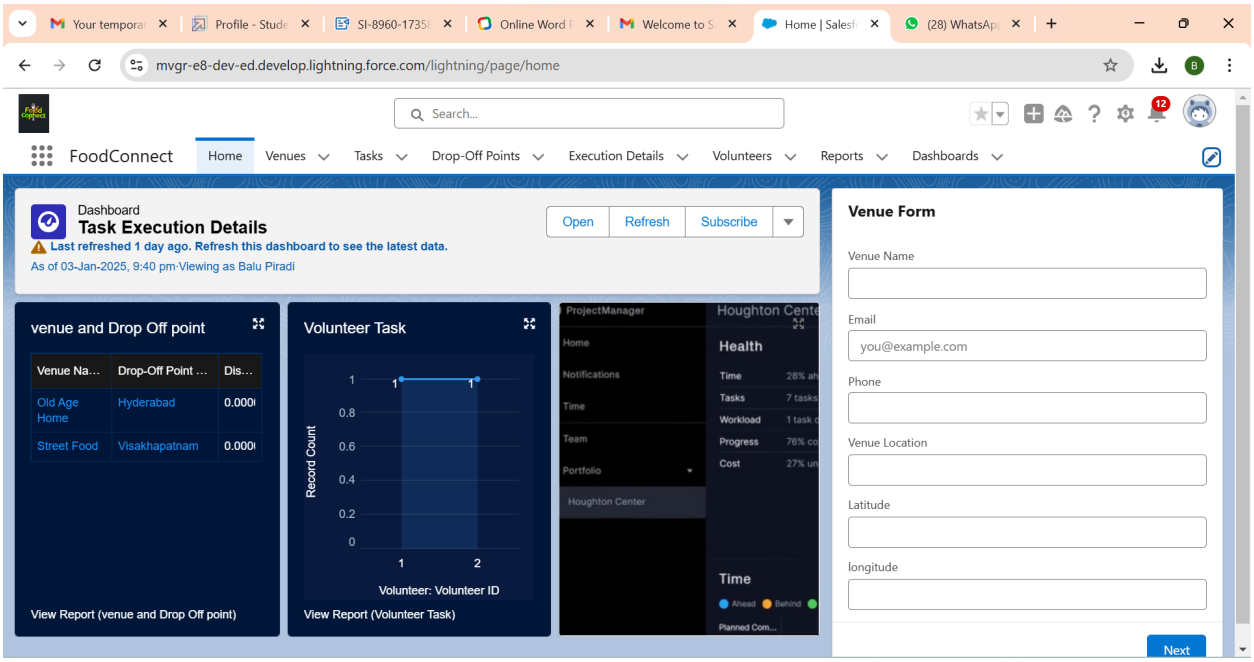


7.Conclusion

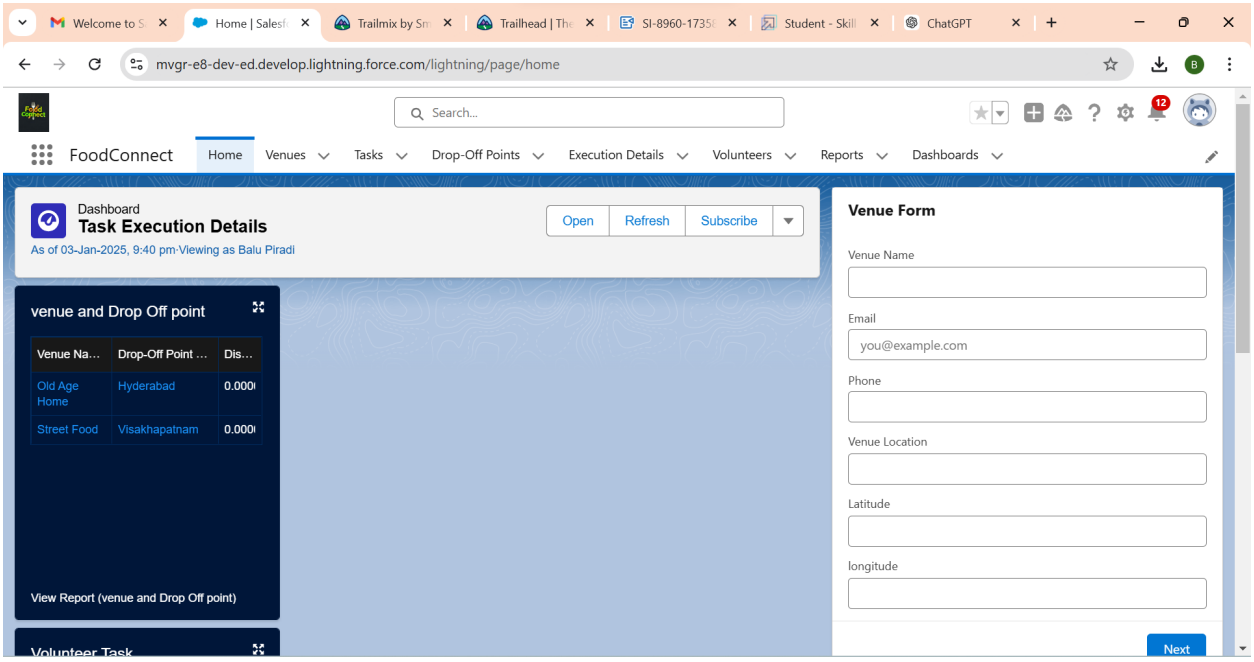
A brief summary of what the project achieved:

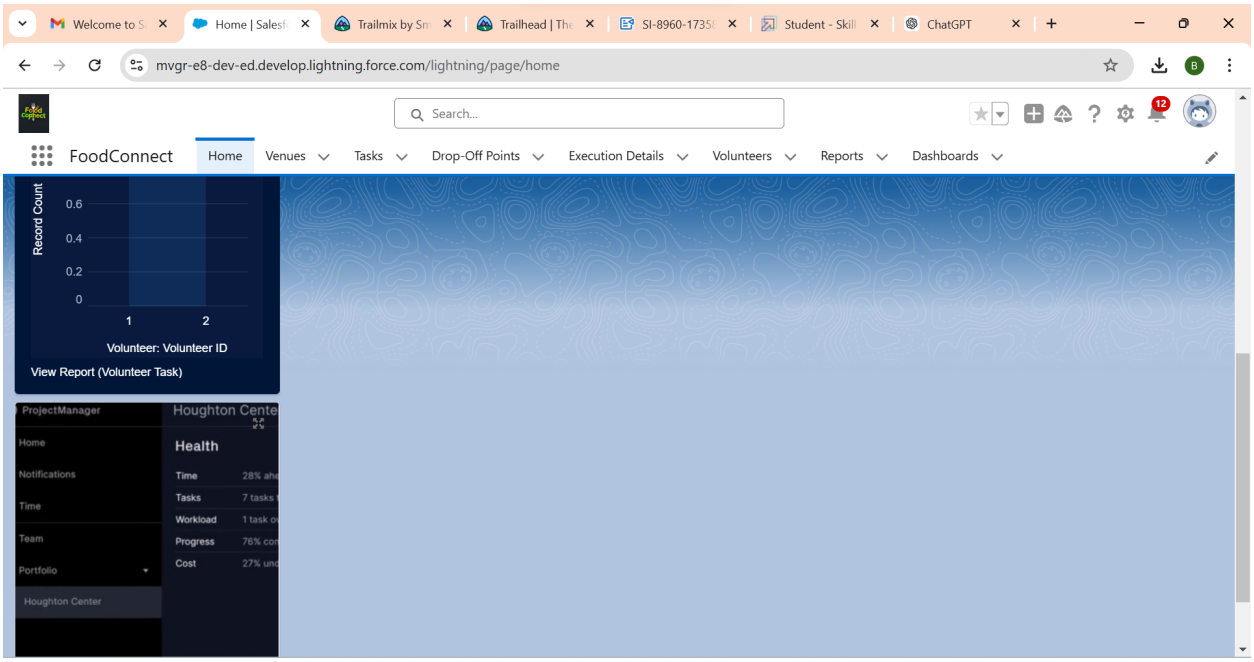
a. Outcome: A functional Salesforce application that enhancesfood distribution efficiency.

b. Impact: Improvedcoordination 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 surplusfood donations. Throughefficient coordination with volunteers and timely deliveryto beneficiaries, the project effectively addressed food insecurity while maximizing the utilization of available resources.