

# Project Title: **To Supply Leftover Food to Poor**

## **a. 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**

### **A. Custom Objects**

#### **1. Drop-OffPoint:**

- 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-OffPoint 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.

performance.

delivery area.

SETUP > OBJECT MANAGER

## Drop-Off Point

**Details**

- Fields & Relationships
- 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

**Details**

Description

API Name

Drop\_Off\_Point\_\_c

Custom

✓

Singular Label

Drop-Off Point

Plural Label

Drop-Off Points

Enable Reports

✓

Track Activities

✓

Track Field History

✓

Deployment Status

Deployed

Help Settings

Standard salesforce.com Help Window

Edit Delete

- Venue: A lookup relationship field linking to the Venue Object to provide a

connection between drop-off points and venues.

SETUP > OBJECT MANAGER

## Venue

**Details**

- Fields & Relationships
- 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

**Details**

Description

API Name

Venue\_\_c

Custom

✓

Singular Label

Venue

Plural Label

Venues

Enable Reports

✓

Track Activities

✓

Track Field History

✓

Deployment Status

Deployed

Help Settings

Standard salesforce.com Help Window

Edit Delete

## 2. Task:

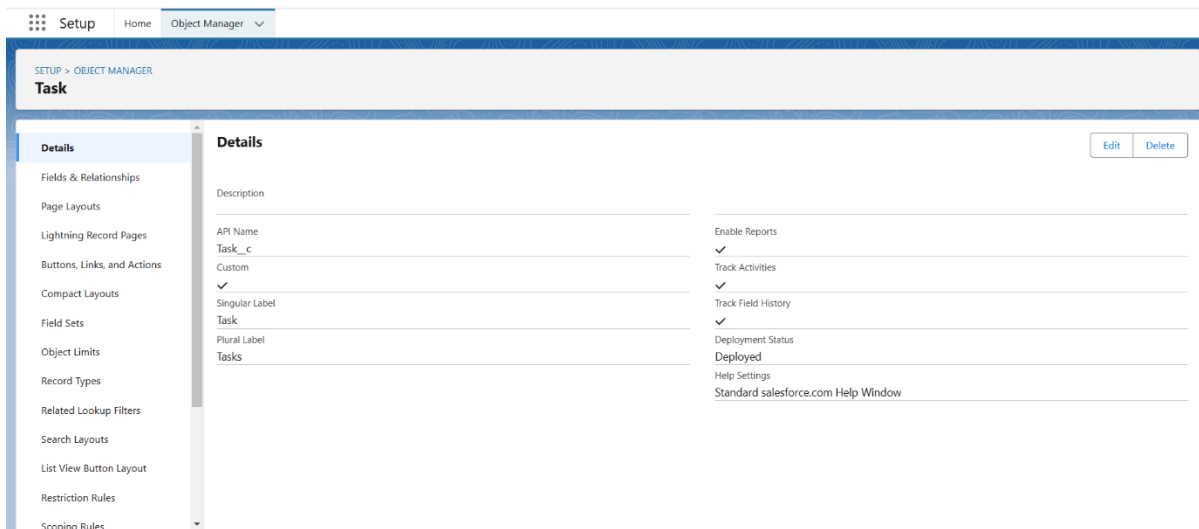
- Purpose: The Task Object is used to manage and track various tasks related to food distribution, including assigning tasks to volunteers and recording task details

- Fields:

performance.

- Task Name: A text field representing the name of the task.
- Date: A date field indicating when the task is scheduled

Point Object to indicate the sponsor Of the task.



The screenshot shows the Salesforce Setup interface for the 'Task' object. The left sidebar contains a list of configuration options: Details, Fields & Relationships, 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, and Scoping Rules. The main content area is titled 'Task' and includes a 'Details' section with the following fields:

- Description
- API Name: Task\_c
- Custom: ☒
- Singular Label: Task
- Plural Label: Tasks
- Enable Reports: ☒
- Track Activities: ☒
- Track Field History: ☒
- Deployment Status: Deployed
- Help Settings: Standard salesforce.com Help Window

Buttons for 'Edit' and 'Delete' are located in the top right corner of the details section.

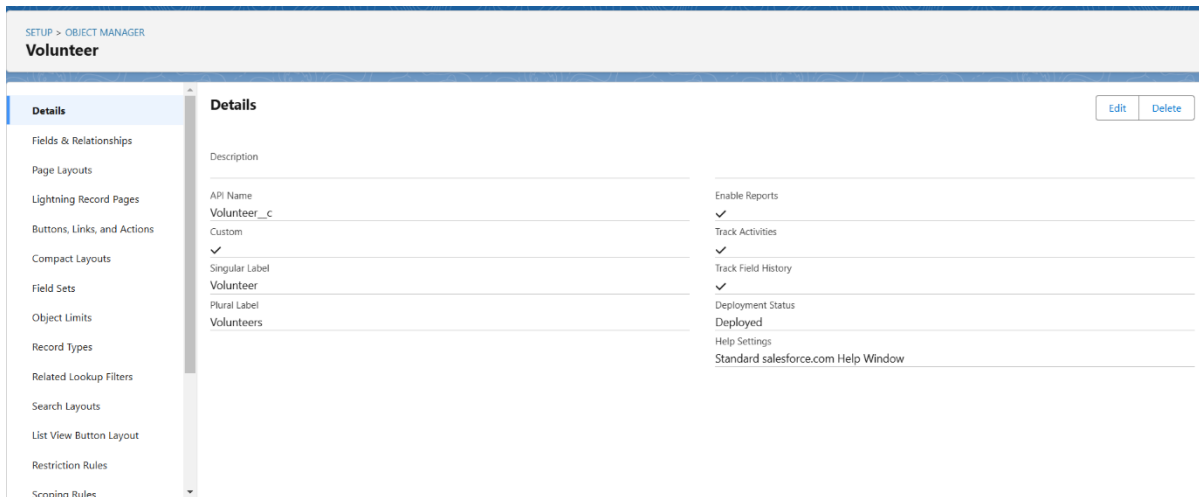
### 3. Volunteer:

- 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.
- Assigned Tasks: A related list showing tasks assigned to the volunteer



The screenshot shows the Salesforce Object Manager interface for the 'Volunteer' object. The breadcrumb trail at the top reads 'SETUP > OBJECT MANAGER Volunteer'. The left sidebar contains a list of configuration categories: Details, Fields & Relationships, 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, and Scoping Rules. The 'Details' category is selected, showing a list of fields on the left and a list of settings on the right. The fields listed are Description, API Name (Volunteer\_\_c), Custom, Singular Label (Volunteer), and Plural Label (Volunteers). The settings listed are Enable Reports (checked), Track Activities (checked), Track Field History (checked), Deployment Status (Deployed), and Help Settings (Standard salesforce.com Help Window). There are 'Edit' and 'Delete' buttons in the top right corner of the details section.

#### 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:

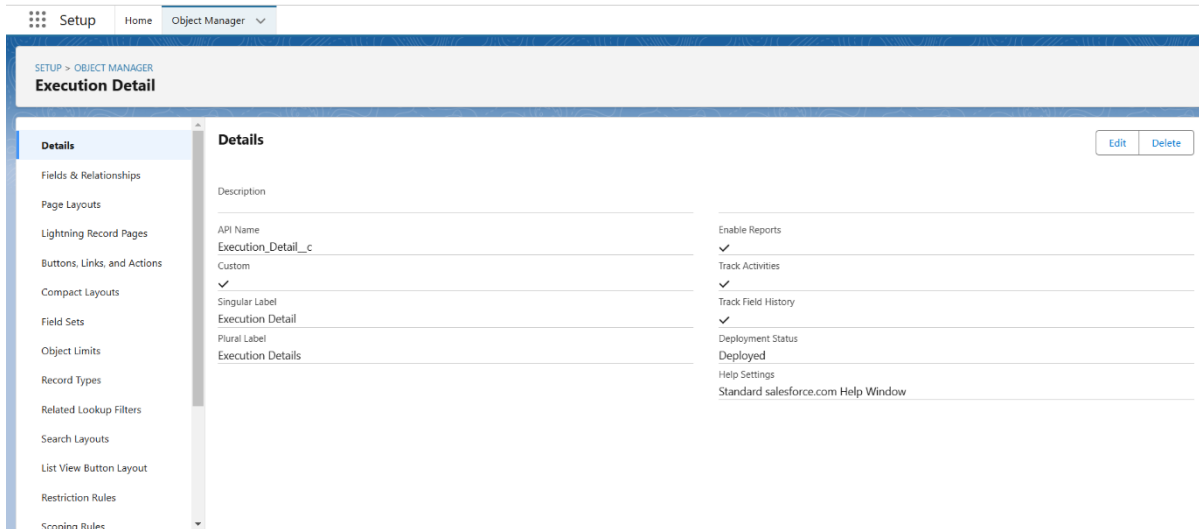
- Execution Detail Name: A text field for naming the execution detail record.

- 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.



The screenshot shows the Salesforce Setup interface for the 'Execution Detail' object. The left sidebar contains a navigation menu with the following items: Details (selected), Fields & Relationships, 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, and Scoping Rules. The main content area is titled 'Execution Detail' and includes a description field, a table of fields (API Name: Execution\_Detail\_\_c, Custom, Singular Label: Execution Detail, Plural Label: Execution Details), and a table of settings (Enable Reports: checked, Track Activities: checked, Track Field History: checked, Deployment Status: Deployed, Help Settings: Standard salesforce.com Help Window). There are 'Edit' and 'Delete' buttons in the top right corner.

## 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.

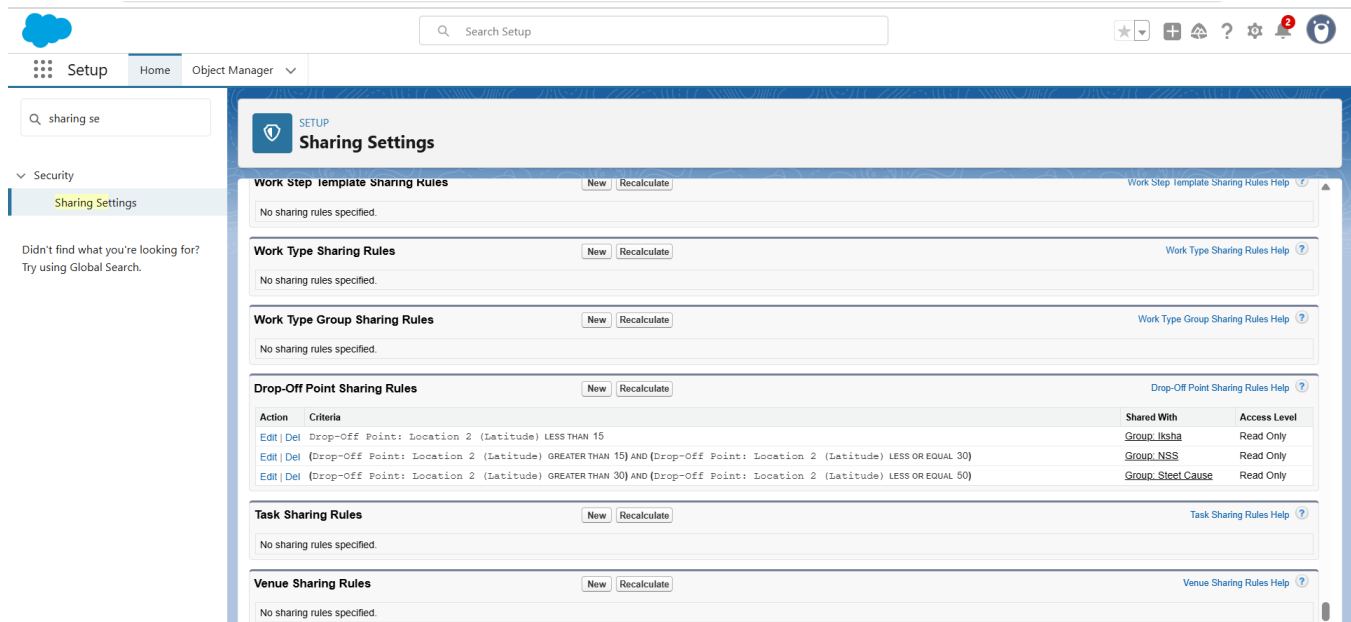
## 2.3 Sharing Rules

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 1 5 km and 30 km
- Access: Shared with Public Group - NSS



**Sharing Settings**

**Work Step Template Sharing Rules** [New] [Recalculate] [Work Step Template Sharing Rules Help](#)

No sharing rules specified.

**Work Type Sharing Rules** [New] [Recalculate] [Work Type Sharing Rules Help](#)

No sharing rules specified.

**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
<a href="#">Edit</a>   <a href="#">Del</a>	Drop-Off Point: Location 2 (Latitude) LESS THAN 15	Group: Iksha	Read Only
<a href="#">Edit</a>   <a href="#">Del</a>	(Drop-Off Point: Location 2 (Latitude) GREATER THAN 15) AND (Drop-Off Point: Location 2 (Latitude) LESS OR EQUAL 30)	Group: NSS	Read Only
<a href="#">Edit</a>   <a href="#">Del</a>	(Drop-Off Point: Location 2 (Latitude) GREATER THAN 30) AND (Drop-Off Point: Location 2 (Latitude) LESS OR EQUAL 50)	Group: Street Cause	Read Only

**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.

## 2.4 Flow and Dashboard

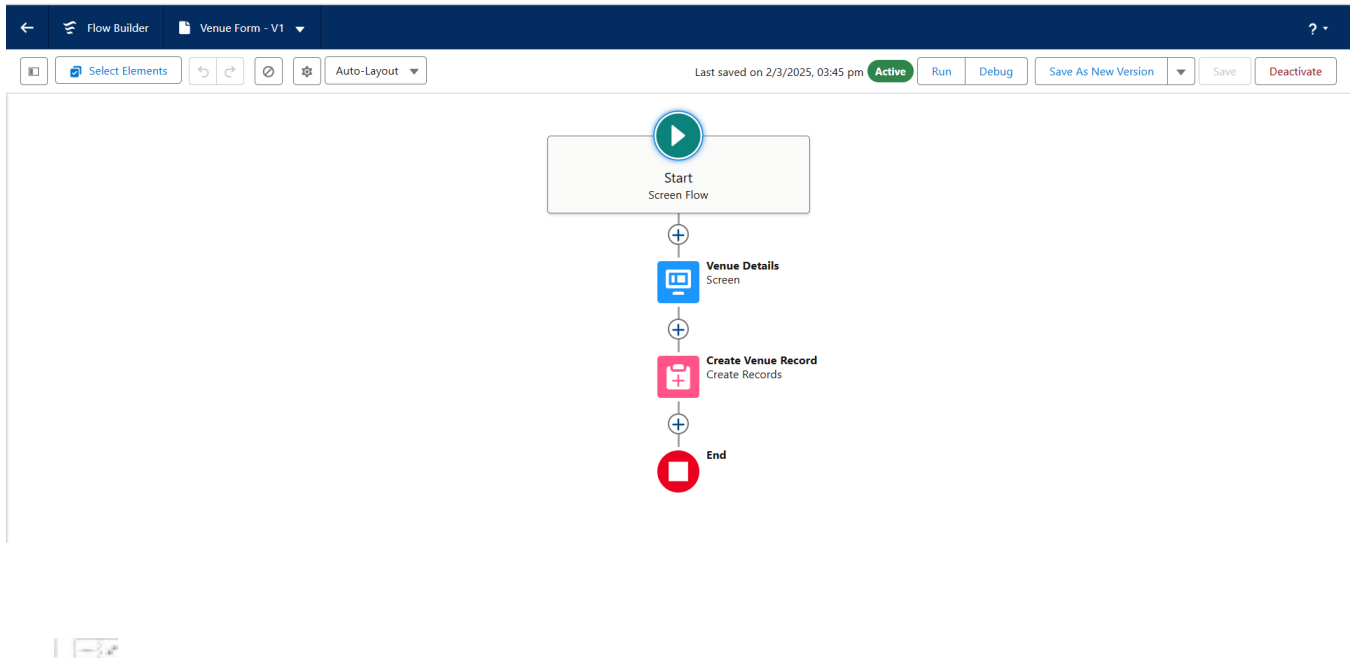
- Flow: Venue Flow
- Purpose: To manage and capture detailed information related to food drop-off


points.

- Components:
- Text Component: For entering the venue name.
- Email Component: For entering the contact email of the venue.

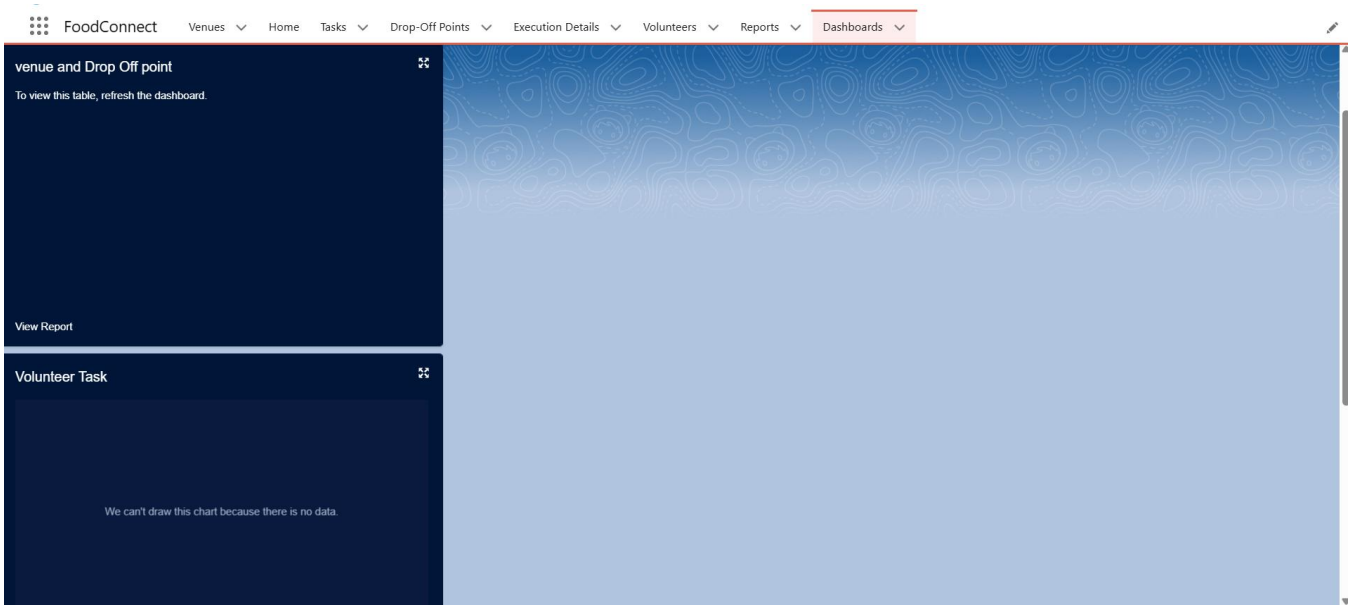
- Phone Component: For entering the contact phone number of the venue.
- Text Component: For entering the venue location.

a 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.





## 2. Configuration and Setup Instructions

### 2.1 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.

## 2.2 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.

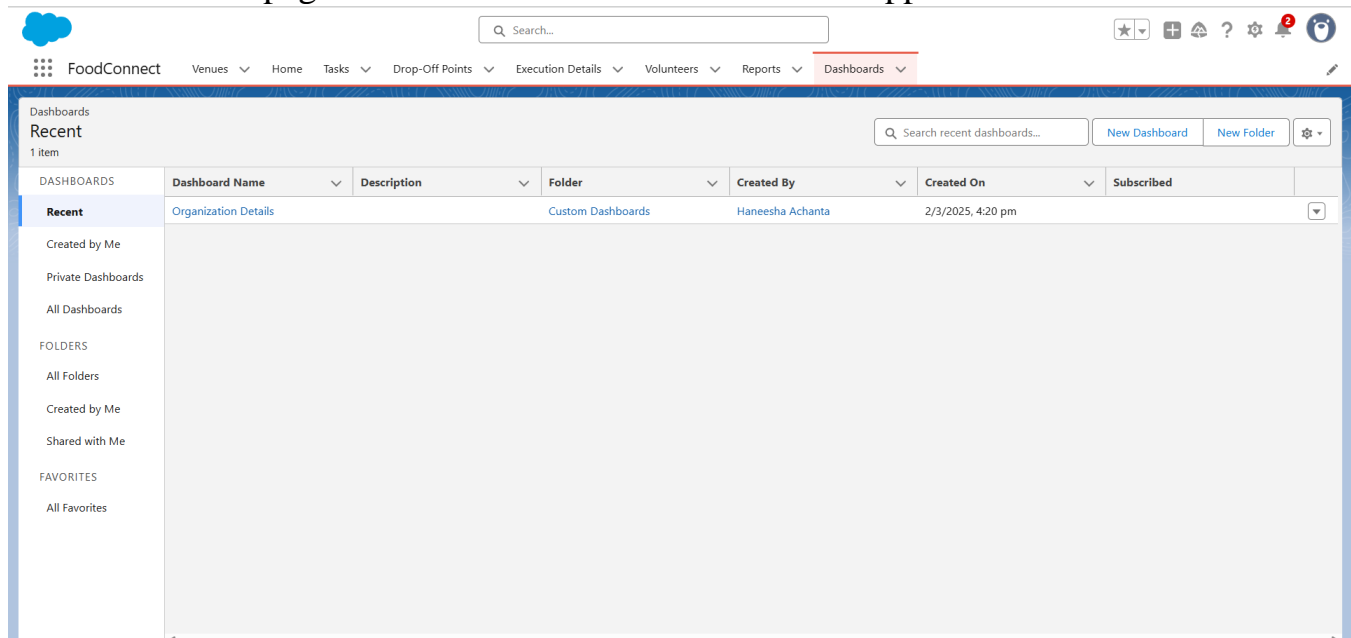
## 2.3 Lightning App Builder

### 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.



## 2.4 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 configure reports using the custom report types to track and analyse relevant data.

### 3. Dashboards:

- . Configure 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, 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.