

# Project Title: To Supply Leftover Food to Poor

## Objective:

This project aims to address both food waste and food insecurity by creating a solution that connects surplus food suppliers (such as restaurants, grocery stores, and food producers) with individuals and families in need. The goal is to collect food that would otherwise be discarded and redistribute it to those lacking access to nutritious meals.

## Step 1: Salesforce Developer Account Creation

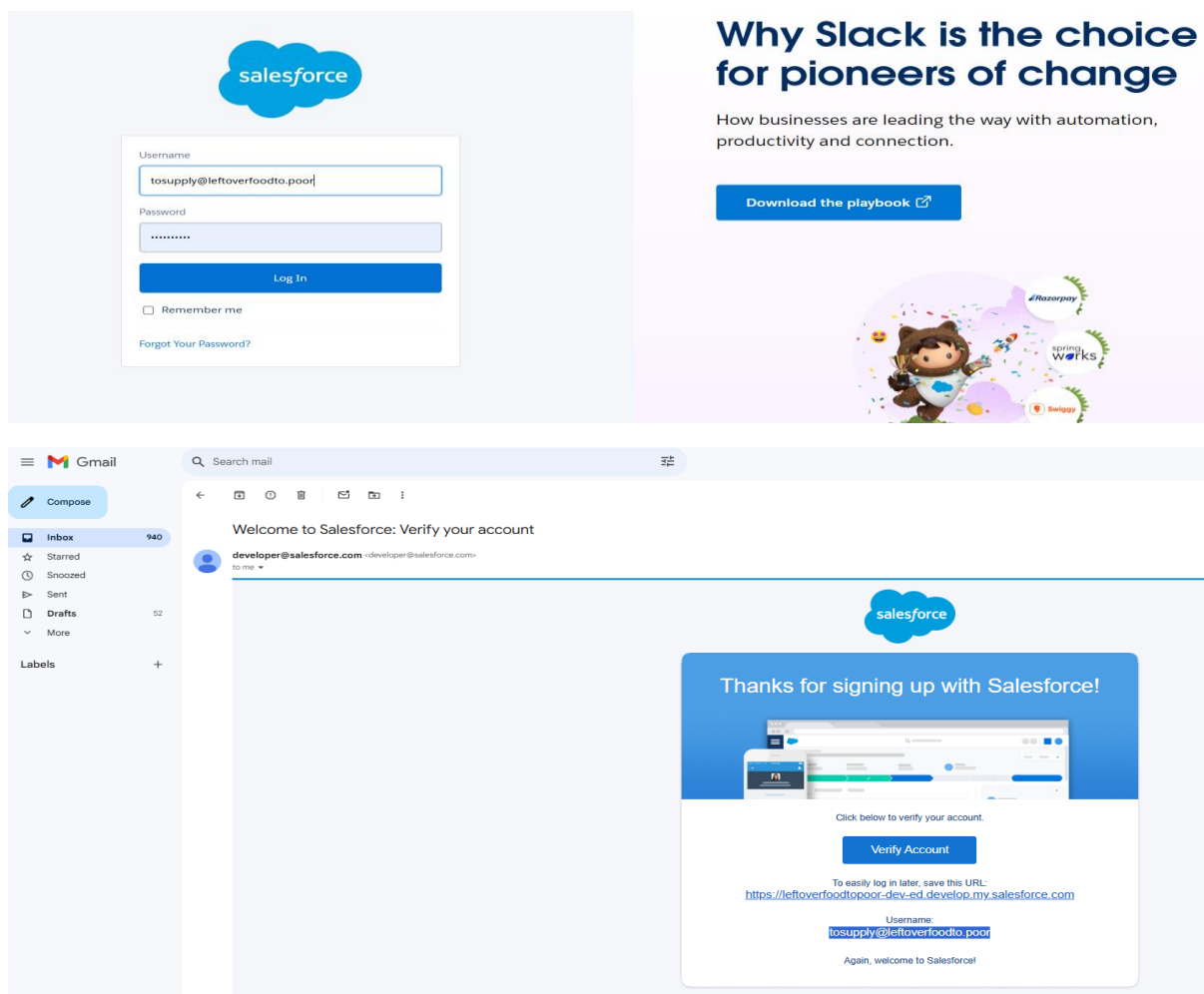
### Sign up for a Developer Account:

Visit the Salesforce Developer Signup Page.

Fill out the required details and submit the form.

### Activate Your Account:

Check your email for a verification link, set up a password, and complete the account setup process.



## Step 2: Object Creation

### Venue Object:

Navigate to Setup > Object Manager > Create > Custom Object and create the Venue object.

### Drop-Off Point Object:

Similarly, create the Drop-Off Point object.

### Task Object:

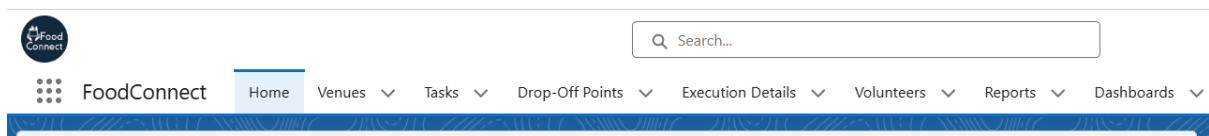
Create the Task object.

### Volunteer Object:

Create the Volunteer object.

### Execution Details Object:

Create the Execution Detail object.



## Step 3: Tabs Creation

What is a Tab?

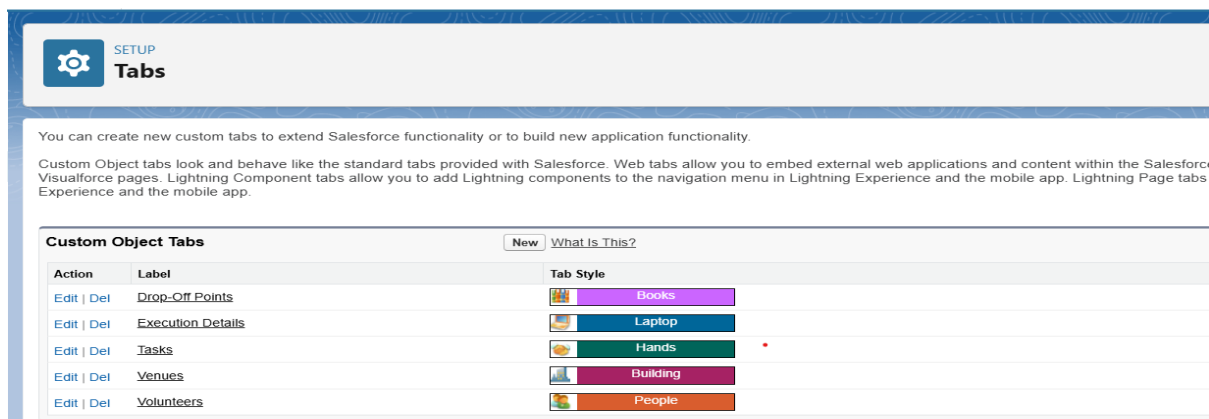
A tab allows users to build and view records for objects.

### Create a Tab for Venue Object:

Navigate to Setup > Quick Find > Tabs > Custom Object Tabs > New and create a custom tab for the Venue object.

Repeat for Other Objects:

Create tabs for Drop-Off Point, Task, Volunteer, and Execution Details.



## Step 4: The Lightning App

### Create a Lightning App:

Navigate to Setup > Quick Find > App Manager > New Lightning App.

Add the following items to the app: Home, Venue, Drop-Off Point, Task, Volunteer, Execution Details, and Reports.

### Assign User Profiles:

Select System Administrator and add it to the app.

### Finish Setup:

Click Save & Finish to complete the Lightning App creation.

The screenshot displays the Lightning App Builder interface. The top navigation bar includes a back arrow, 'Lightning App Builder', 'App Settings', 'Pages', and 'FoodConnect'. The left sidebar shows 'App Settings' with sub-items: 'App Details & Branding' (selected), 'App Options', 'Utility Items (Desktop Only)', 'Navigation Items', and 'User Profiles'. The main content area is titled 'App Details & Branding' and includes the instruction: 'Give your Lightning app a name and description. Upload an image and choose the highlight color for its navigation bar.' The 'App Details' section contains fields for 'App Name' (FoodConnect), 'Developer Name' (FoodConnect), and 'Description' (placeholder: Enter a description...). The 'App Branding' section features an 'Image' upload area with a 'Food Connect' logo, a 'Primary Color Hex Value' dropdown set to '#0070D2', and a 'Clear' link. Below this is the 'Org Theme Options' section with a checkbox 'Use the app's image and color instead of the org's custom theme' which is currently unchecked. At the bottom is the 'App Launcher Preview' showing the 'FoodConnect' app icon and name.

← → ↻ 🌐 leftoverfoodtopoor-dev-ed.develop.lightning.force.com/lightning/page/home

FoodConnect

Home Venues Tasks Drop-Off Points Execution Details Volunteers Reports Dashboards

## Step 5: Field and Relationship Creation

- **Lookup & Master-Detail Relationships:**
  - Create Lookup and Master-Detail relationships between various objects like Volunteer, Drop-Off Point, Execution Details, and Task.
  - Use the object manager to navigate to the specific object and create fields with specified relationships.
- **Creating Fields:**

- Create fields such as Email, Phone, Geolocation, Text Area, Picklist, Auto Number, and Formula for various objects (Venue, Drop-Off Point, Task, Volunteer, and Execution Details).
- Set field properties like Length, Decimal Places, and Description where necessary.

SETUP > OBJECT MANAGER

### Volunteer

Details

**Fields & Relationships**  
12 Items, Sorted by Field Label

Q Quick Find

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLS
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	
Drop-Off Point	Drop_Off_Point__c	Master-Detail(Drop-Off Point)	
Email	Email__c	Email	
Gender	Gender__c	Picklist	
Last Modified By	LastModifiedById	Lookup(User)	
Volunteer ID	Volunteer_ID__c	Auto Number	
Volunteer Name	Name	Text(80)	

SETUP > OBJECT MANAGER

### Task

Details

**Fields & Relationships**  
14 Items, Sorted by Field Label

Q Quick Find

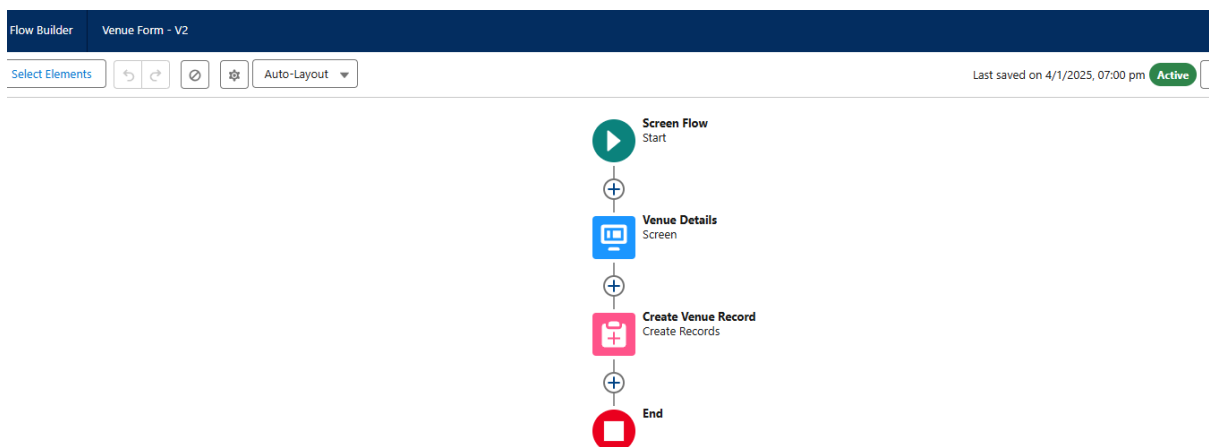
FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLS
Created By	CreatedById	Lookup(User)	
Date	Date__c	Date	
Drop-Off Point	Drop_Off_Point__c	Lookup(Drop-Off Point)	
Feedback	Feedback__c	Long Text Area(32768)	
Food Category	Food_Category__c	Picklist (Multi-Select)	
Last Modified By	LastModifiedById	Lookup(User)	
Name of the Person	Name_of_the_Person__c	Text(75)	
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 (External ID)	

Details	<b>Fields &amp; Relationships</b> 6 Items, Sorted by Field Label			<input type="text"/> Quick Find
<b>Fields &amp; Relationships</b>	<b>FIELD LABEL</b>	<b>FIELD NAME</b>	<b>DATA TYPE</b>	<b>CONTROLLING FIELD</b>
Page Layouts	Created By	CreatedById	Lookup(User)	
Lightning Record Pages	Execution Detail Name	Name	Text(80)	
Buttons, Links, and Actions	Execution ID	Execution_ID__c	Auto Number	
Compact Layouts	Last Modified By	LastModifiedById	Lookup(User)	
Field Sets	Task	Task__c	Master-Detail(Task)	
Object Limits	Volunteer	Volunteer__c	Master-Detail(Volunteer)	
Record Types				
Related Lookup Filters				
Search Layouts				
List View Button Layout				
Restriction Rules				
Scoping Rules				

### Step 6: Flow Creation:

## 1. Creating a Flow:

- Navigate to the Setup and create a Screen Flow.
- Add components like Text, Email, Phone, Number, and Latitude/Longitude inputs for the Venue object.
- Add a "Create Record" element for creating records in the Venue object, mapping the flow inputs to the object fields.
- Save and activate the flow as Venue Form

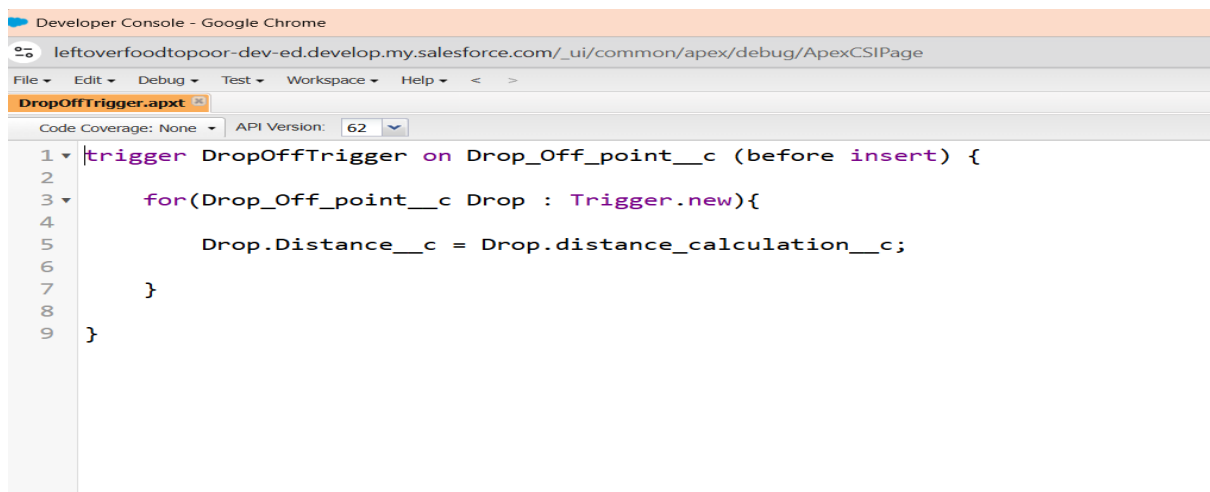


## Step 7: Trigger Creation

### Drop-Off Trigger Code:

Create a trigger on the Drop-Off Point object to assign the Distance field to the Distance Calculation field.

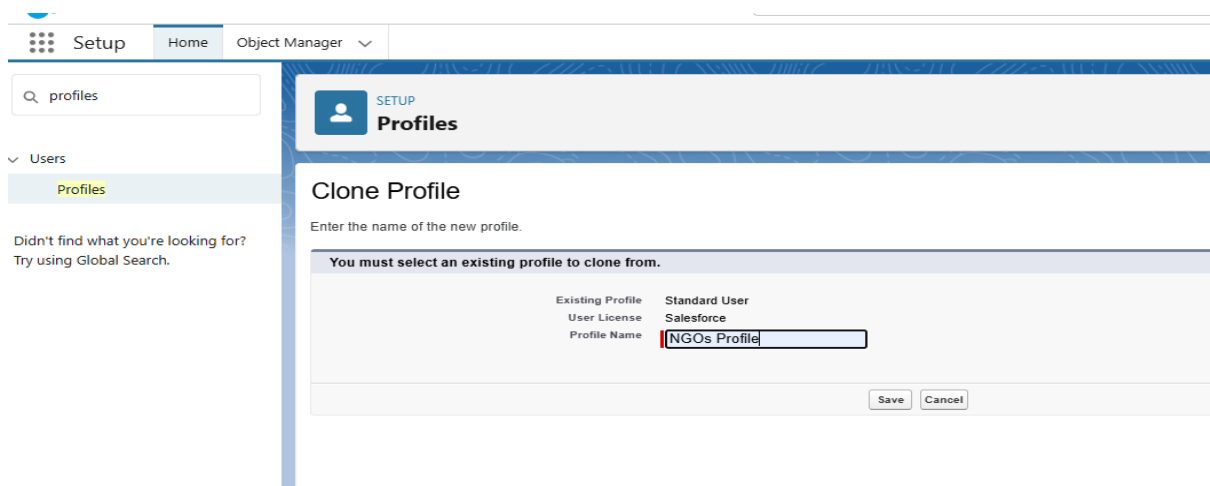
```
trigger DropOffTrigger on Drop_Off_point__c (before insert) {  
    for(Drop_Off_point__c Drop : Trigger.new){  
        Drop.Distance__c = Drop.distance_calculation__c;  
    }  
}
```



## Step 8: Profiles Creation

### Clone Profile:

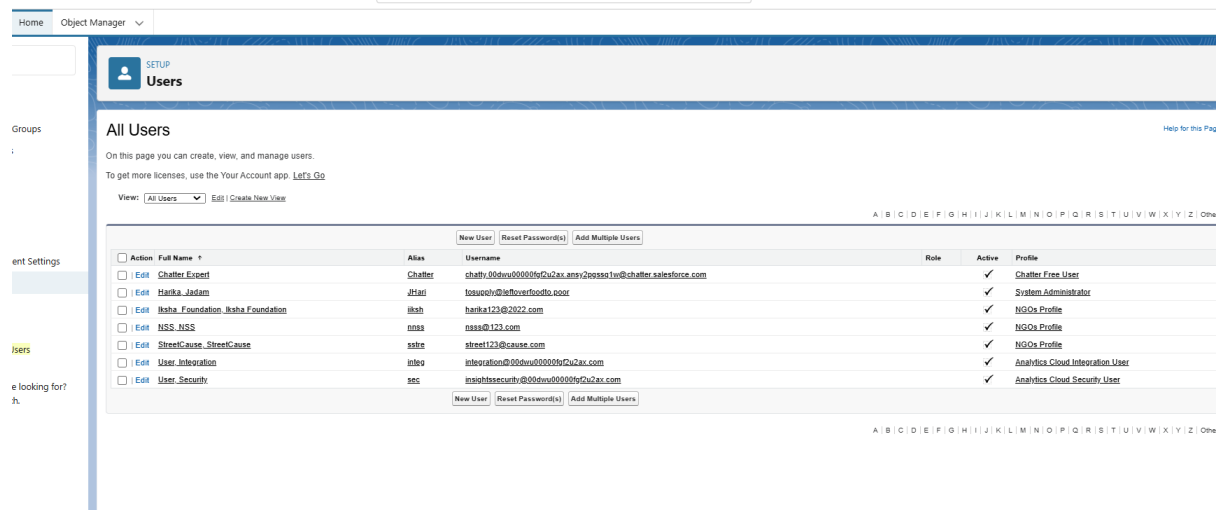
Go to Setup > Profiles, clone the Standard Platform User profile, and create a new profile called NGOs Profile.



## Step 9: User Creation

## 1. Create Users:

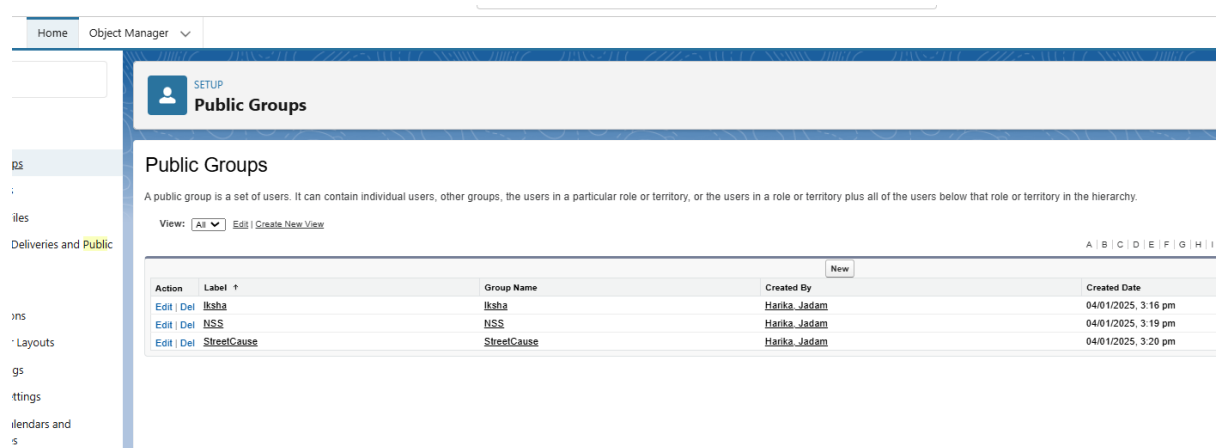
- Navigate to **Setup > Users > New User** and create users for different NGOs. Include details like First Name, Last Name, Email, Username, and Profile (NGOs Profile).



## Step 10: Public Groups Creation

## 1. Create Public Groups:

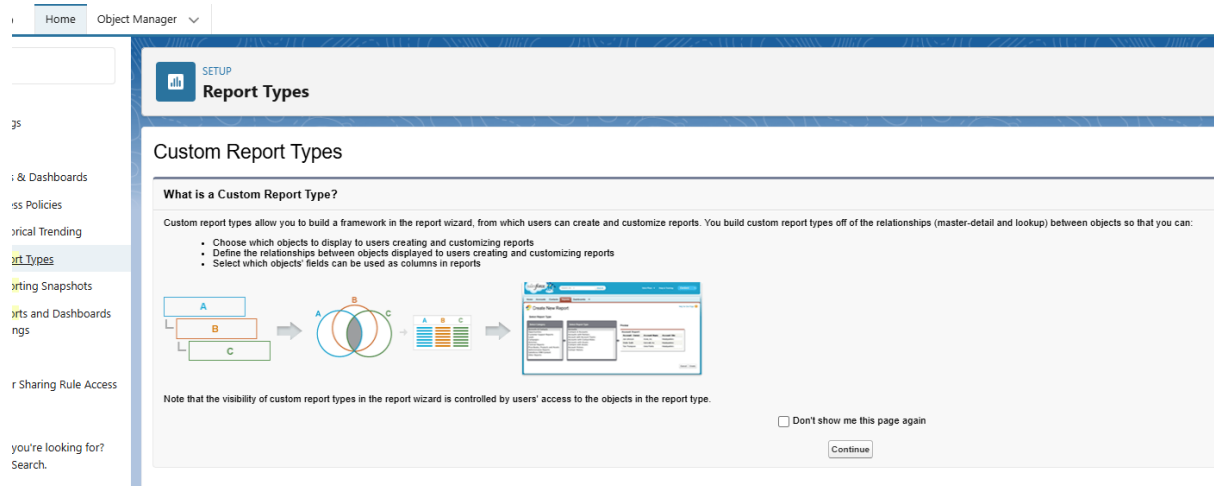
- Go to **Setup > Public Groups** and create groups such as **Iksha**, **NSS**, and **Street Cause**, assigning the appropriate users to each group.



## Step 11: Report Types Creation

### 1. Create Custom Report Types:

- Go to **Setup > Report Types** and create custom report types, such as **Venue with DropOff with Volunteer**, linking objects like **Venues**, **Drop-Off Points**, and **Volunteers**.



## Step 12: Report Creation

### 1. Create Reports:

- Create reports based on the custom report types, such as **Venue and Drop-Off Point** and **Volunteer Task**, adding relevant fields for analysis.

Reports					
Recent					
3 items					
REPORTS	Report Name	Description	Folder	Created By	Created On
Recent	Volunteer Task		Custom Reports	Jadam Harika	4/1/2025, 6:23 pm
Created by Me	venue and Drop Off point		Custom Reports	Jadam Harika	4/1/2025, 5:52 pm
Private Reports	Sample Flow Report: Screen Flows	Which flows run, what's the status of each interview, and how long do users take to complete the screens?	Public Reports	Automated Process	4/1/2025, 11:59 am
Public Reports					
All Reports					
FOLDERS					
All Folders					
Created by Me					
Shared with Me					

## Step 13: Dashboard Creation

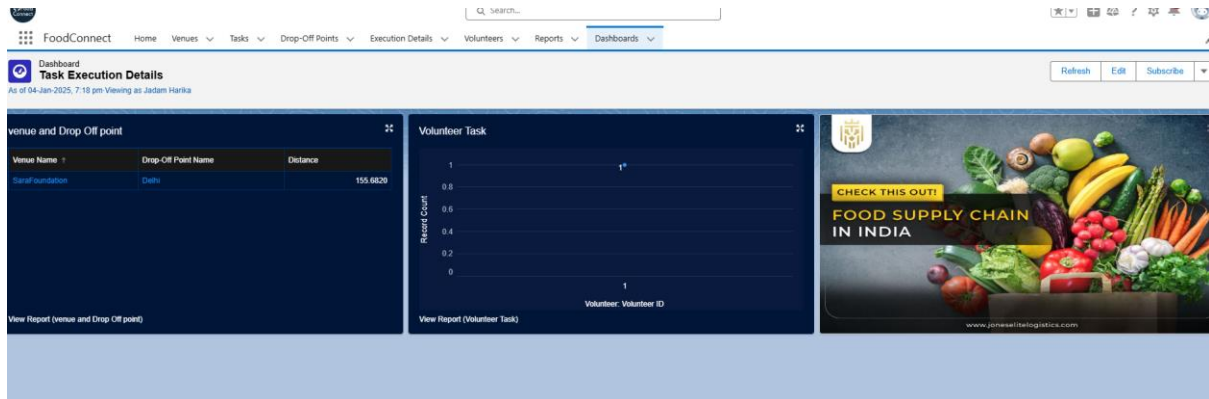
### 1. Add Reports to Dashboards:

- Navigate to **Dashboards** and create a custom dashboard. Add reports like **Venue and Drop-Off Point** and **Volunteer Task**, displaying them as tables or charts.



## 2. Add Images:

- Optionally, add images to the dashboard for better visualization.



## Step 14: Sharing Rules Creation

### 1. Create Sharing Rules:

- Go to **Setup > Sharing Settings** and create sharing rules for the **Drop-Off Point** object, based on the **Distance** field values. Share records with relevant public groups like **Iksha**, **NSS**, and **Street Cause**.

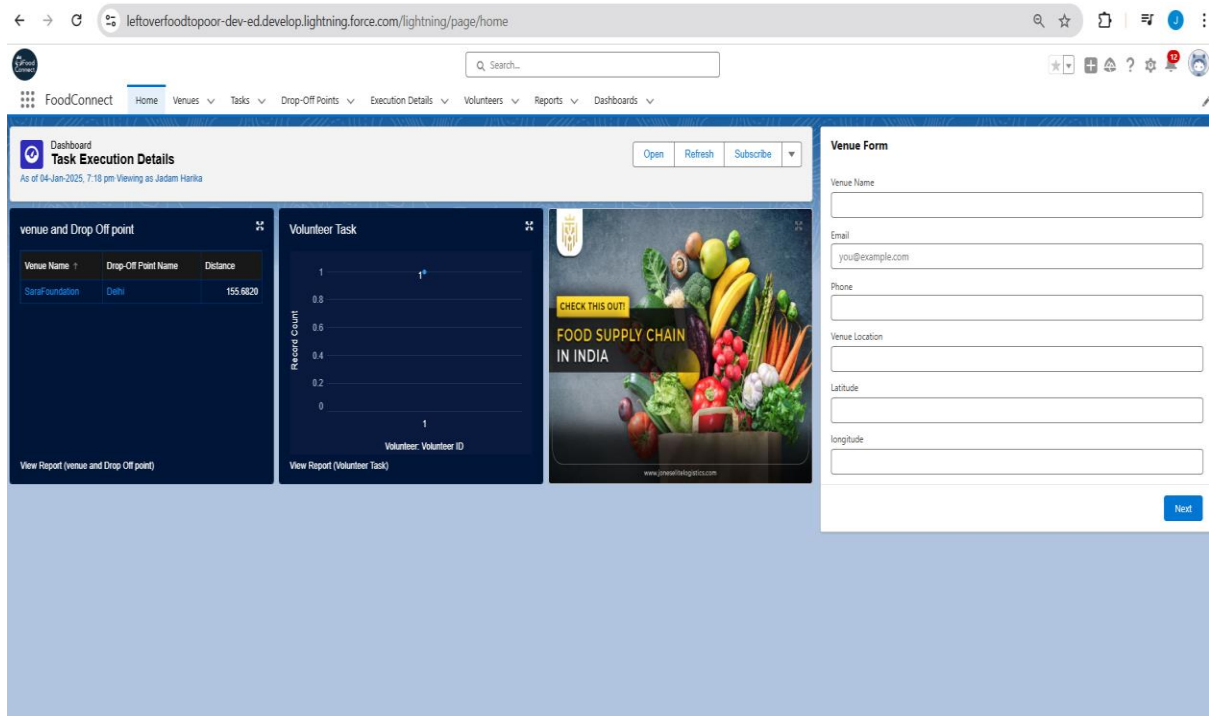
The screenshot shows the 'Sharing Settings' page for the 'Drop-Off Point' object. The page is divided into several sections:

- Manage sharing settings for:** A dropdown menu set to 'Drop-Off Point'.
- Default Sharing Settings:** A section with a 'Disable External Sharing Model' button and a 'Default Sharing Settings' header.
- Organization-Wide Defaults:** A table with columns: Object, Default Internal Access, Default External Access, and Grant Access Using Hierarchies. Data row: 'Drop-Off Point', 'Public Read/Write', 'Private', and a checked checkbox.
- Other Settings:** A section with checkboxes for 'Manager Groups', 'Secure guest user record access' (checked), and 'Require permission to view record names in lookup fields'.
- Sharing Rules:** A section titled 'Drop-Off Point Sharing Rules' with 'New' and 'Recalculate' buttons. It contains a table with columns: Action, Criteria, Shared With, and Access Level. Data rows: 'Drop-Off Point: Distance LESS THAN 15' (shared with 'Group: Iksha', Read Only), '(Drop-Off Point: Distance GREATER THAN 15) AND (Drop-Off Point: Distance LESS OR EQUAL 30)' (shared with 'Group: NSS', Read Only), and '(Drop-Off Point: Distance GREATER THAN 30) AND (Drop-Off Point: Distance LESS OR EQUAL 50)' (shared with 'Group: StreetCause', Read Only).
- Sharing Overrides:** A section titled 'Profiles That Override Drop-Off Point Sharing' with a 'Sharing Overrides' link.
- Message:** A yellow banner at the bottom stating: 'Organization-wide permissions affect all objects in the organization. Object permissions affect only the given object.' with links 'Tell me more!' and 'Don't show this message again'.

## Step 15: Home Page Creation

### 1. Create a Home Page:

- Go to **Setup > Lightning App Builder** and create a custom home page for the app. Add components like **Flow** (for Venue Flow) and **Dashboard**.



## Conclusion:

By leveraging Salesforce for this project, we created an efficient system for managing food donations. It connects surplus food suppliers with individuals in need, maximizing resource utilization and effectively addressing food insecurity.