# **Supply Left over Food To Poor**

#### 1. Project Overview

This project aims to streamline the process of leftover food distribution using salesforce.

- Goal: Efficiently distribute leftover food to reduce food waste and address hunger.
- Impact: Reduce food waste, address hunger, and improve the management of food distribution points, tasks and volunteers.
- Technology: Salesforce tools manage records, workflows, and data visualization, ensuring seamless operations.

### 2. Objectives

The project defines measurable goals for societal and operational improvement.

**Business Goals:** 

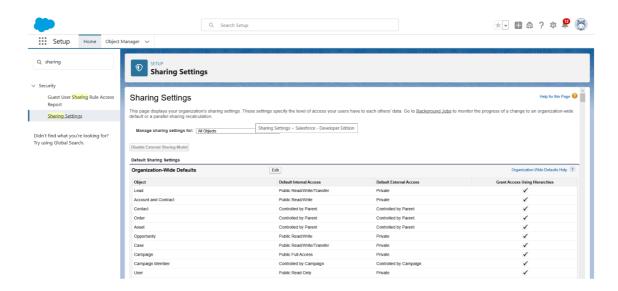
- Address societal issues like food waste and hunger.
- Enhance operations, transparency, and accountability

Deliverables include:

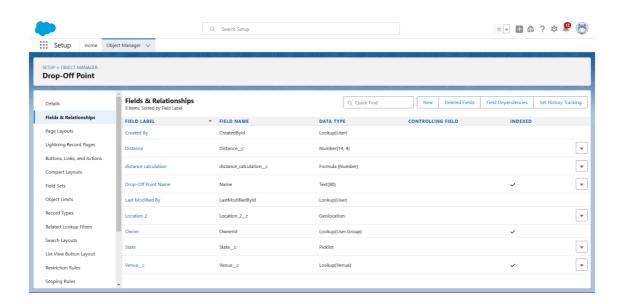
- Custom objects: Drop-off point, Task, Volunteer, and Execution Detail.
- Reports and dashboards for operational insights.
- Automated workflows for efficiency.Creat

### 3. Salesforce Key Features and Concepts Utilized

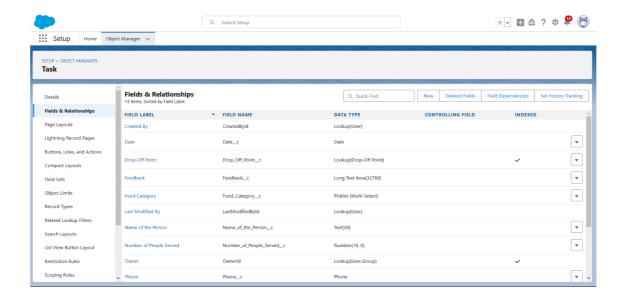
- Custom Objects: Store essential data for food distribution management.
- Relationships:
- $\circ$  Master-Detail: Strict dependencies (e.g., Execution detail Links to Volunteer or Task).
- ${\small \circ}\ Lookup: Flexible\ associations\ (e.g., Drop-off\ point\ linked\ to\ Venue). \\$
- Flows: Automated data entry for venues and other processes.
- Dashboards: Visualize drop-off points, task completion rates, and volunteer participation.
- Sharing Rules: These control who can view or edit records. Your project uses criteria-based sharing (e.g., by distance).



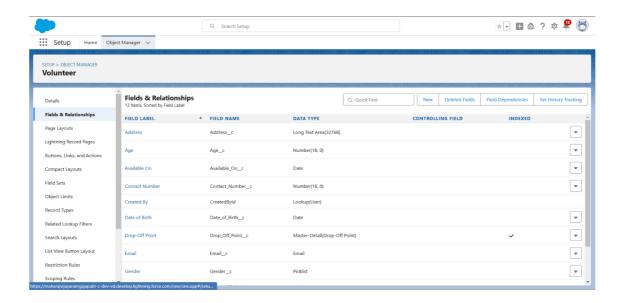
- 4. Detailed Steps to Solution Design
- a)Object Creation:
- Drop-Off point:
- $\circ$  Purpose:Tracks food drop-off locations for effective management.
- o Fields: Name, location details, Distance, Venue (lookup to venue object)



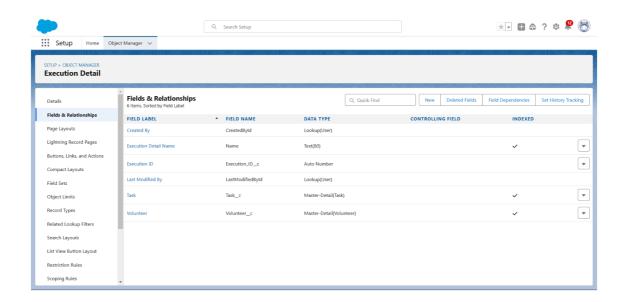
- Task:
- o Purpose: Manages and tracks tasks related to food distribution.
- o Fields: Name, date, Rating, Drop-Off point (lookup), Sponsored By (lookup)



- Volunteer:
- o Purpose: Tracks Individuals involved in food distribution.
- o Fields:Name, Contact Email, Contact Phone, Assigned tasks (related List)

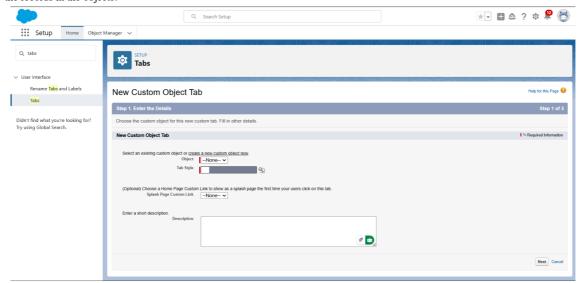


- Execution Details:
- $\circ$  Purpose:Captures detailed food distribution activity information.
- o Fields:Name, Linked Volunteer (master-detail), Linked Task (master-detail), Additional Details.



#### b) Tabs Creation:

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



## Creating Remaing Tabs:

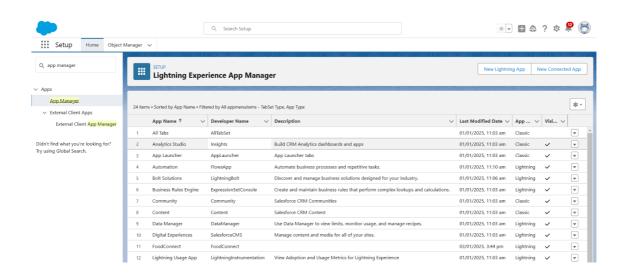
 $Create\ Tabs\ for\ all\ the\ objects\ created:\ Drop-off\ points,\ Task,\ Venue,\ Volunteer,$ 

Execution Details and Dashboards.



#### c)The Lightning Apps:

1. Go to setup page >> search "app manager" in quick find >> select "app manager" >> click on New lightning App.

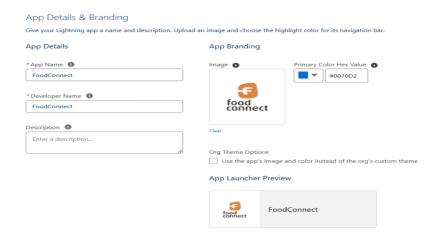


2. Fill the app name in app details and branding as follow

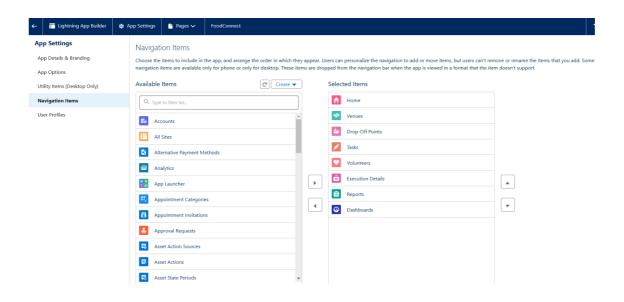
App Name: FoodConnect

Developer Name: will be auto populated

 $Image: optional\ [Primary\ color\ hex\ value: keep\ this\ default.]$ 



- 3. click Next >> (App option page)Set Navigation Style as Standard Navigation >> Next.
- 4. Utility Items) keep it as default >> Next.
- 5. To Add Navigation Items:



- d) Fields:
- Create Relationship Fields in Objects
- 1. Create Lookup Relationship Field on Volunteer Object
- 2. Create Master Detail Relationship Field on Execution Details Object

- 3. Create Lookup Relationship Field on Drop-Off Point Object
- 4. Create Lookup Relationship Field on Task Object
- Creation of fields for each Object
- 1. Creation of fields for the Drop-Off point object
- 2. Creation of fields for the Task object
- 3. Creation of fields for the Volunteer object
- 4. Creation of fields for the Execution Details object

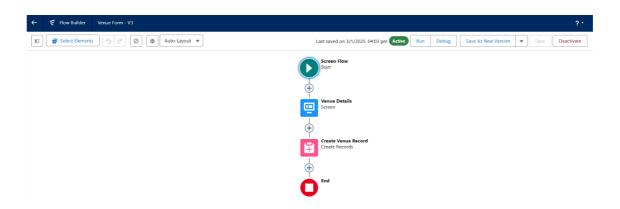
#### e)Flows:

Automates data entry and processes, like recording venue details.

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



### f)Creating trigger:

This Trigger is to assign Distance field to the Distance Calculation field. So that we can assign the distance in the sharing rules.

- 1. Log into the trailhead account, navigate to the gear icon in the top right corner.
- 2. Click on developer console and you will be navigated to a new console window.
- 3. Click on the File menu in the toolbar, and click on new >> Trigger.
- 4. Enter the trigger name and the object to be triggered.
- 5. Enter Name: DropOffTrigger

## 6. sObject: Drop-Off Point

```
Code:
trigger DropOffTrigger on Drop_Off_point_c (before insert)
{
for(Drop_Off_point_c Drop : Trigger.new)
{
Drop.Distance_c = Drop.distance_calculation_c;
}
```

### g)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:

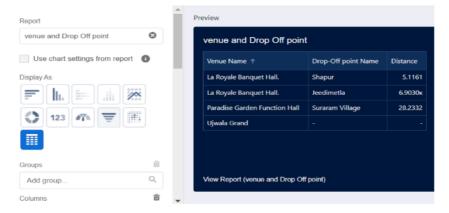
Configure dashboards to visualise data from reports and other components, providing insights into the overall distribution process.

a. Name: Task Execution Details

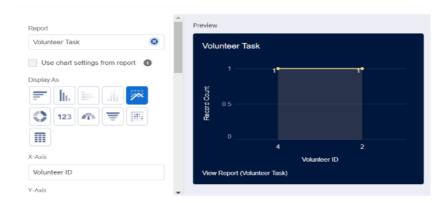
b. Components:

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

Adding Venue and Drop Off Point Report to The Dashboard



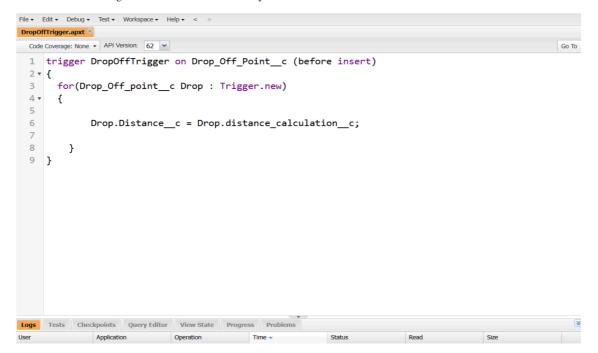
Adding Volunteer Task Graph to the Dashboard



## 5. Testing and Validation

Ensures that the system works as intended:

- a. Unit Testing: Ensures all components (Apex triggers, workflows) operate correctly.
- b. User Interface Testing: Verifies user interface usability and correctness.



### 6. Key Scenarios Addressed by Salesforce in the Implementation

#### Project

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

Challenges

• Food Distribution Coordinator: Tracks food drop-off points and related tasks.

- Volunteer Management: Links tasks to volunteers for accountability.
- Data Visibility: Dashboards and reports improve decision-making and transparency.

#### 7. Conclusion

The salesforce Food Connect App successfully enhances food distribution efficiency by leveraging Salesforce's capabilities. It improves coordination and transparency in food donation efforts, addressing food insecurity and maximizing resource utilization.

A brief summary of what the project achieved:

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

