

# FOOD CONNECT

## To Supply Leftover Food to the Poor

### 1. Project Overview

This project, *Food Connect*, is designed to address the critical issue of food wastage while alleviating hunger among underprivileged communities. The objective is to create a scalable solution using **Salesforce**, enabling efficient collection, management, and distribution of surplus food. The goal is to enhance **operational efficiency**, improve **data accuracy**, and provide a seamless **user experience** for all stakeholders. This project aligns with the long-term vision of fostering a sustainable and socially responsible ecosystem.

### 2. Objectives

#### Business Goals:

- Establish a structured and transparent process for redistributing leftover food.
- Facilitate collaboration between donors, volunteers, and NGOs using a centralized platform.

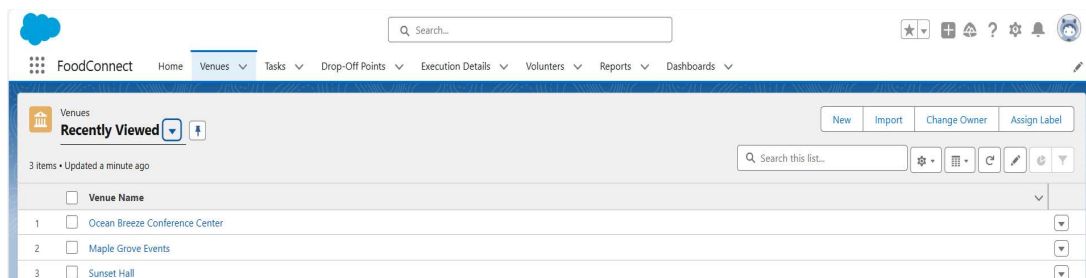
#### Specific Outcomes:

- Custom objects for managing donors, food items, and recipients.
- Automated workflows to streamline food donation and distribution.
- Dashboards and reports to track food surplus metrics and operational efficiency.

### 3. Salesforce Key Features and Concepts Utilized

The project leverages several key Salesforce features, including:

- **Custom Objects and Tabs:** For managing entities like Venue, Drop off point, Task, volunteers and Execution details



The screenshots show the FoodConnect application interface with the following sections:

- Tasks:** A list of tasks including "Health Awareness Campaign", "Food Drive", and "Food Distribution - Community Center".
- Drop-Off Points:** A list of drop-off points including "Ocean Breeze point", "Maple Grove Events point", and "Sunset point".
- Execution Details:** A list of execution details including "Delivery#2", "Delivery#3", and "Delivery#1".
- Volunteers:** A list of volunteers including "Kevin Morris", "Priya Singh", and "John Carter".

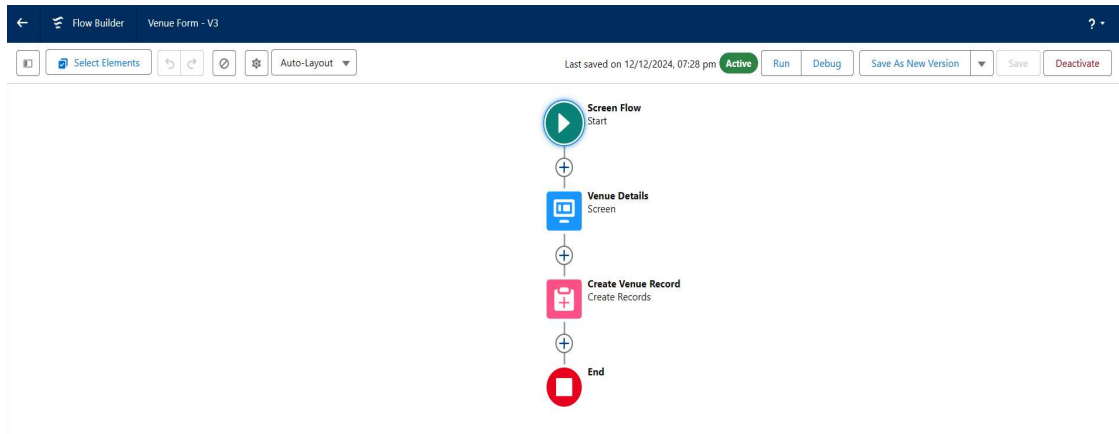
- **Lightning App:** Created a tailored app for intuitive navigation and accessibility.

The screenshot shows the Lightning App Builder interface with the following details:

- Setup:** The interface is titled "Lightning App Builder" and includes a "Setup" button.
- Description:** The Lightning App Builder provides an easy-to-use graphical interface for creating custom Lightning pages for Salesforce Lightning Experience and mobile app. Lightning pages are built using Lightning components—compact, configurable, and reusable elements that you can drag and drop into regions of the page in the Lightning App Builder.
- View:** The view is set to "All" and includes a "Create New View" link.
- Lightning Pages:** A table listing the created Lightning pages.

Action	Label	Name	Namespace Prefix	Description	Type	Created By	Last Modified By
<a href="#">Edit</a>   <a href="#">Clone</a>   <a href="#">Del</a>	<a href="#">HOME Page</a>	HOME_Page			Home Page	GChep, 12/12/2024, 8:15 pm	GChep, 12/12/2024, 8:15 pm

- **Flows:** Automated workflows for donation approval, food pickup notifications, and delivery tracking.



- **Triggers:** Implemented triggers for validation and notifications.

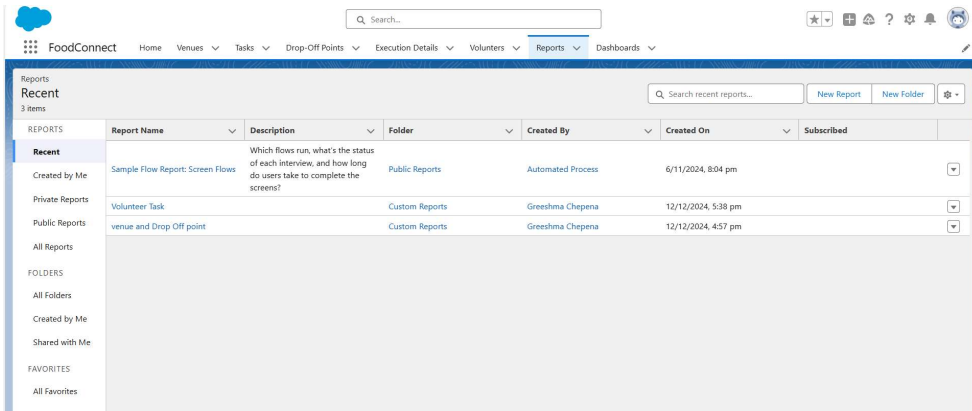
#### Code:

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

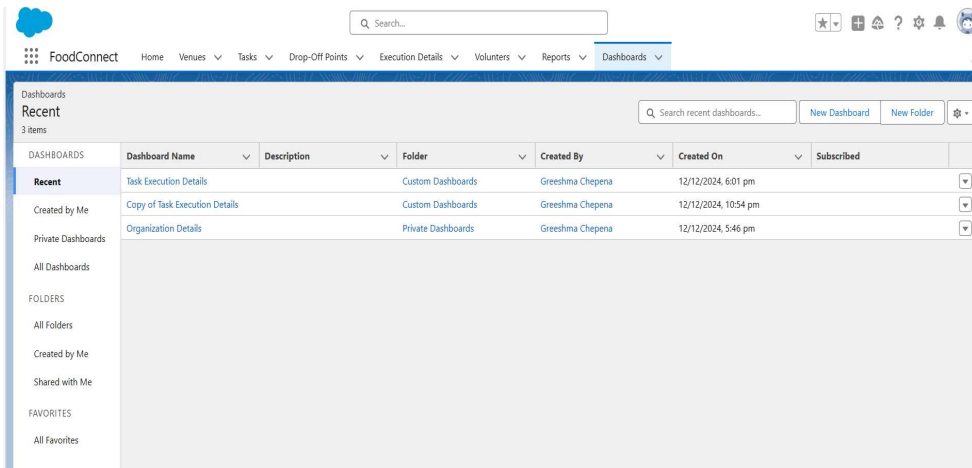
- **Profiles and User Management:** Configured profiles, roles, and public groups to manage access and responsibilities.

Action	Full Name	Alias	Username	Role	Active	Profile
<a href="#">Edit</a>	B.Swapna_b.B.Swapna	bs.sw	swapna@b.com		✓	NGOs Profile
<a href="#">Edit</a>	Chepena_Greeshma_Chepena Greeshma	cche	chepena@14.com		✓	NGOs Profile
<a href="#">Edit</a>	Pativada_Usha_Pativada Usha	ppati	ushapativada@p.com		✓	NGOs Profile

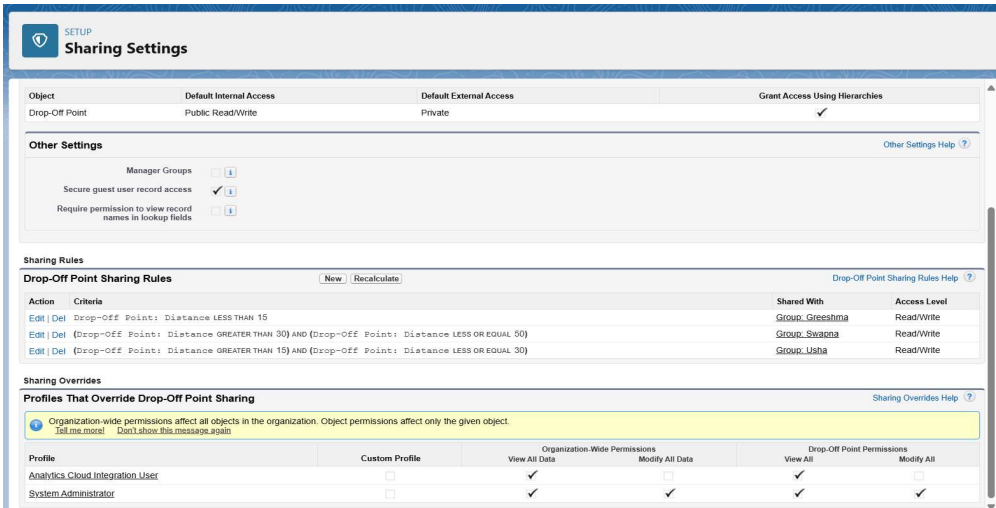
- **Report Types and Reports:** Built custom report types for tracking food donations and recipient data.



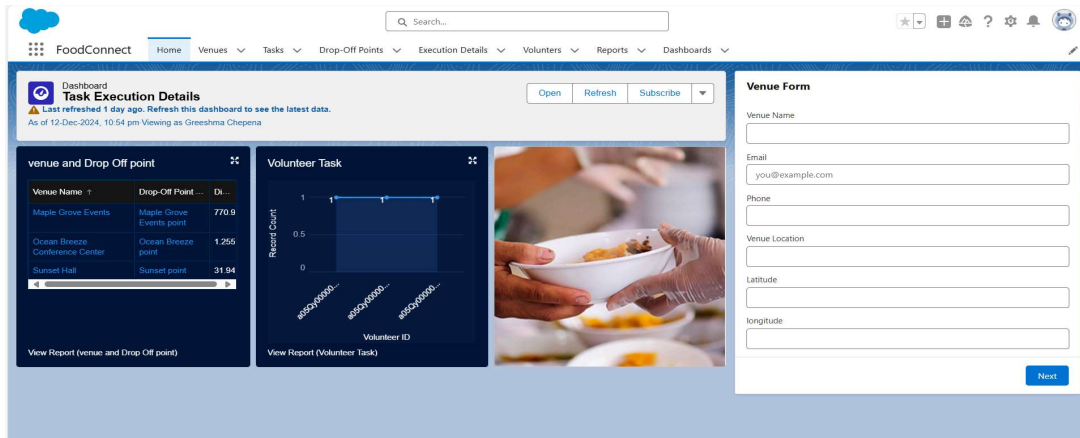
- **Dashboards:** Designed dashboards for visualizing operational insights.



- **Sharing Rules:** Applied sharing rules to ensure secure and appropriate access to data.



- **Home Page Customization:** Configured the homepage to display key metrics and quick access links for stakeholders.



## 4. Detailed Steps to Solution Design

- **Data Models:**
  - Created custom objects: Venue, Drop off point, Task, volunteers and Execution details
  - Defined relationships between objects for seamless data flow.
- **User Interface Design:**
  - Designed Lightning pages and forms for food entry, donation approvals, and user interactions.
  - Customized the Home Page to highlight essential metrics and tasks.
- **Business Logic:**
  - Implemented Apex Triggers for automated notifications and validation checks.
  - Created Flows for step-by-step food request and delivery processes

## 5. Testing and Validation

- **Unit Testing:**
  - Conducted comprehensive tests for Apex Classes and Triggers to ensure accurate data handling.
- **User Interface Testing:**
  - Validated the functionality of forms, Lightning components, and workflows across multiple devices and roles.

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

- **Scenario 1:** Automating the process of food donation requests and approvals.
- **Scenario 2:** Generating real-time notifications for volunteers to collect and deliver food.

- **Scenario 3:** Monitoring and analyzing food distribution through customized reports and dashboards.
- **Scenario 4:** Ensuring secure access to data for donors, NGOs, and other stakeholders through sharing rules and profiles.

## 7. Conclusion

### **Summary of Achievements:**

The *Food Connect* project has successfully established a structured and efficient process to address food wastage and hunger. By leveraging Salesforce, it ensures seamless collaboration, automated workflows, and insightful reporting. This project is a step toward creating a sustainable system for surplus food redistribution, positively impacting underprivileged communities while promoting social responsibility.