

# Supplying Leftover Food to the Poor

## Project Overview:

The aim of this project is to design a Salesforce-based solution that facilitates the collection, management, and distribution of leftover food to underprivileged communities. By leveraging Salesforce's tools, the project seeks to create an efficient and scalable system that connects food donors, logistics partners, and beneficiary organizations.

## Objectives:

- Minimize food wastage by redistributing leftover food.
- Create a user-friendly platform to connect donors, logistics partners, and beneficiaries.
- Ensure traceability and accountability in the food distribution process.
- Enhance the efficiency of operations using Salesforce features.

## Key Components

### 1. Stakeholders

- **Food Donors:** Restaurants, event organizers, grocery stores, and households.
- **Logistics Partners:** Delivery services and volunteers.
- **Beneficiaries:** NGOs, food banks, shelters, and underprivileged communities.

### 2. Features

#### Food Donor Portal

- Allow donors to:
  - Register and create profiles.
  - Log leftover food details (quantity, type, expiry, and location).

- Schedule pickup times.

## Logistics Management

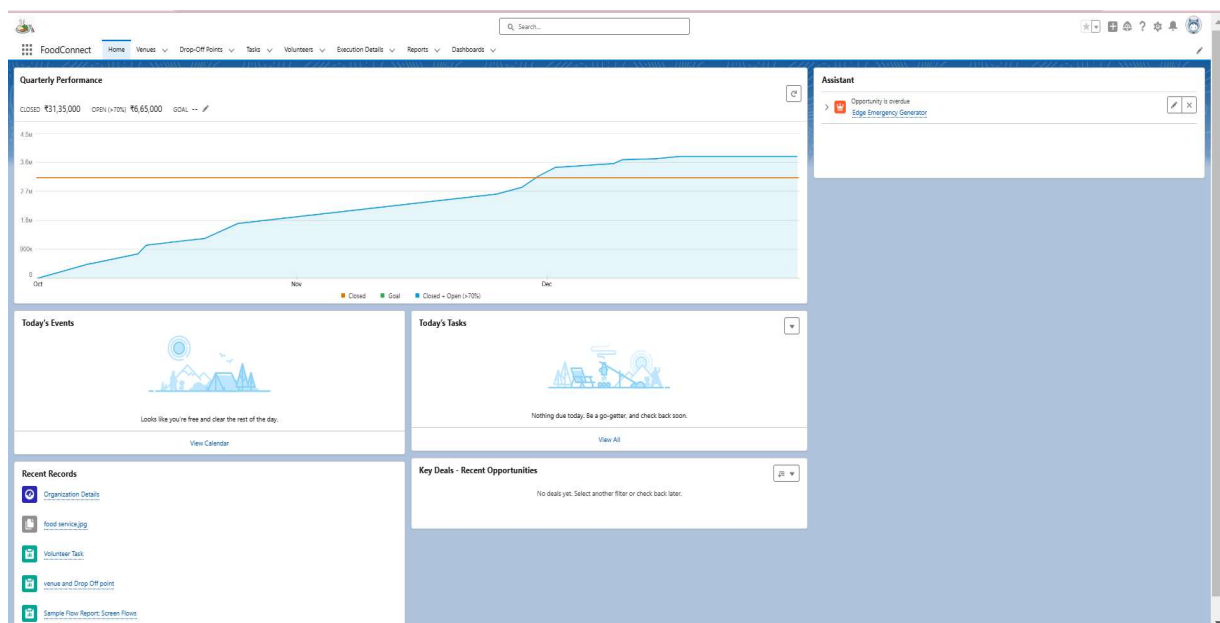
- Assign pickups to logistics partners.
- Track real-time progress of food collection and distribution.
- Optimize routes for pickups and deliveries.

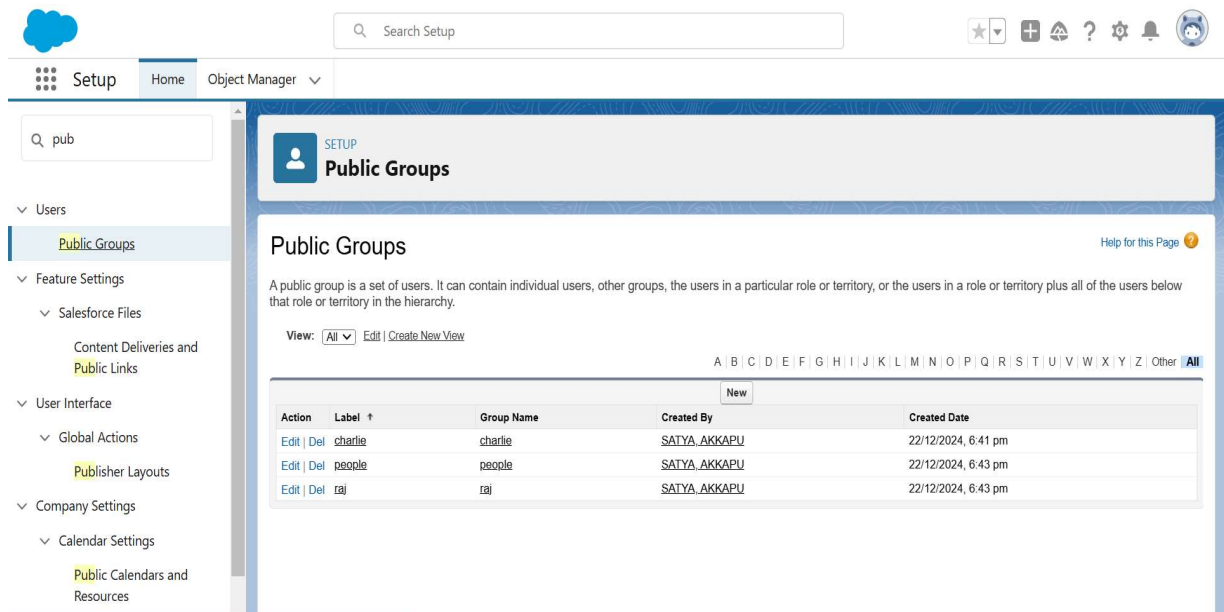
## Beneficiary Organization Portal

- Enable NGOs and food banks to:
  - Register and create profiles.
  - View available food and request supplies.
  - Confirm receipt of food deliveries.

## Admin Dashboard

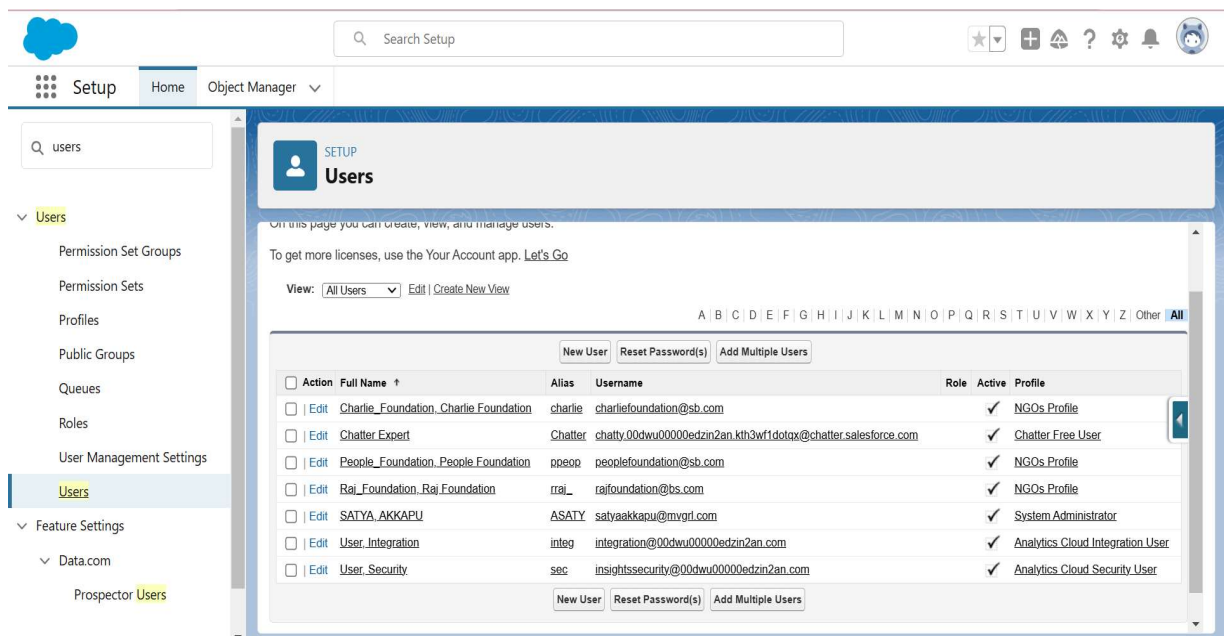
- Monitor and manage the overall process.
- Generate reports on:
  - Food donations.
  - Logistics performance.
  - Beneficiary impact.





The screenshot shows the Salesforce Setup page for Public Groups. The left sidebar contains a search bar with 'pub' and a list of navigation items: Users, Public Groups (selected), Feature Settings, Salesforce Files, Content Deliveries and Public Links, User Interface, Global Actions, Publisher Layouts, Company Settings, and Calendar Settings. The main content area has a header 'Public Groups' and a description: 'A public group is a set of users. It can contain individual users, other groups, the users in a particular role or territory, or the users in a role or territory plus all of the users below that role or territory in the hierarchy.' Below the description is a table of public groups.

Action	Label ↑	Group Name	Created By	Created Date
<a href="#">Edit</a>   <a href="#">Del</a>	charlie	charlie	SATYA_AKKAPU	22/12/2024, 6:41 pm
<a href="#">Edit</a>   <a href="#">Del</a>	people	people	SATYA_AKKAPU	22/12/2024, 6:43 pm
<a href="#">Edit</a>   <a href="#">Del</a>	raji	raji	SATYA_AKKAPU	22/12/2024, 6:43 pm



The screenshot shows the Salesforce Setup page for Users. The left sidebar contains a search bar with 'users' and a list of navigation items: Users (selected), Permission Set Groups, Permission Sets, Profiles, Public Groups, Queues, Roles, User Management Settings, Feature Settings, Data.com, and Prospector Users. The main content area has a header 'Users' and a description: 'On this page you can create, view, and manage users. To get more licenses, use the Your Account app. Let's Go.' Below the description is a table of users.

Action	Full Name ↑	Alias	Username	Role	Active	Profile
<input type="checkbox"/>   <a href="#">Edit</a>	Charlie_Foundation_Charlie Foundation	charlie	charliefoundation@sb.com		✓	NGOs Profile
<input type="checkbox"/>   <a href="#">Edit</a>	Chatter Expert	Chatter	chatty.00dwu00000edzin2an.kth3wf1dotqx@chatter.salesforce.com		✓	Chatter Free User
<input type="checkbox"/>   <a href="#">Edit</a>	People_Foundation_People Foundation	people	peoplefoundation@sb.com		✓	NGOs Profile
<input type="checkbox"/>   <a href="#">Edit</a>	Raj_Foundation_Raj Foundation	rraj_	rajfoundation@bcs.com		✓	NGOs Profile
<input type="checkbox"/>   <a href="#">Edit</a>	SATYA_AKKAPU	ASATY	satyaakkapu@mygrd.com		✓	System Administrator
<input type="checkbox"/>   <a href="#">Edit</a>	User_Integration	integ	integration@00dwu00000edzin2an.com		✓	Analytics Cloud Integration User
<input type="checkbox"/>   <a href="#">Edit</a>	User_Security	sec	insightssecurity@00dwu00000edzin2an.com		✓	Analytics Cloud Security User

Setup Home Object Manager

Search Setup

SETUP > OBJECT MANAGER

### Volunteer

Details

**Fields & Relationships**

13 Items, Sorted by Field Label

Quick Find New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Address	Address__c	Long Text Area(32768)		
Age	Age__c	Number(18, 0)		
Avaiable On	Avaiable_On__c	Date		
Contact Number	Contact_Number__c	Number(18, 0)		
Created By	CreatedById	Lookup(User)		
Date of Birth	Date_of_Birth__c	Date		

Setup Home Object Manager

Search Setup

SETUP > OBJECT MANAGER

### Task

Details

**Fields & Relationships**

15 Items, Sorted by Field Label

Quick Find New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Date	Date__c	Date		
Distance	Distance__c	Number(14, 4)		
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)		

Setup > OBJECT MANAGER

## Venue

Details

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

Quick Find New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Contact Email	Contact_Email__c	Email		
Contact Phone	Contact_Phone__c	Phone		
Created By	CreatedById	Lookup(User)		
Last Modified By	LastModifiedById	Lookup(User)		
Location	Location__c	Geolocation		
Owner	OwnerId	Lookup(User,Group)		✓
Venue Location	Venue_Location__c	Long Text Area(32768)		
Venue Name	Name	Text(80)		✓

Setup > OBJECT MANAGER

## Drop-Off Point

Details

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

Quick Find New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
distance calculation	distance_calculation__c	Formula (Number)		
Drop-Off Point Name	Name	Text(80)		✓
Last Modified By	LastModifiedById	Lookup(User)		
Location 2	Location_2__c	Geolocation		
Owner	OwnerId	Lookup(User,Group)		✓
State	State__c	Picklist		
Venue__c	Venue__c	Lookup(Venue)		✓

Setup

Home

Object Manager

Search Setup

SETUP > OBJECT MANAGER

Execution Detail

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

Fields & Relationships

5 Items, Sorted by Field Label

Quick Find

New

Deleted Fields

Field Dependencies

Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Execution Detail Name	Name	Text(80)		✓
Last Modified By	LastModifiedById	Lookup(User)		
Task	Task_c	Master-Detail(Task)		✓
Volunteer	Volunteer_c	Master-Detail(Volunteer)		✓

FoodConnect

Home

Venues

Drop-Off Points

Tasks

Volunteers

Execution Details

Reports

Dashboards

Search...

Reports

Recent

3 items

Search recent reports...

New Report

New Folder

REPORTS	Report Name	Description	Folder	Created By	Created On	Subscribed
Recent	Volunteer Task		Custom Reports	AKKAPU SATYA	22/12/2024, 7:15 pm	
Created by Me	venue and Drop Off point		Custom Reports	AKKAPU SATYA	22/12/2024, 6:56 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	22/12/2024, 9:25 am	

FOLDERS

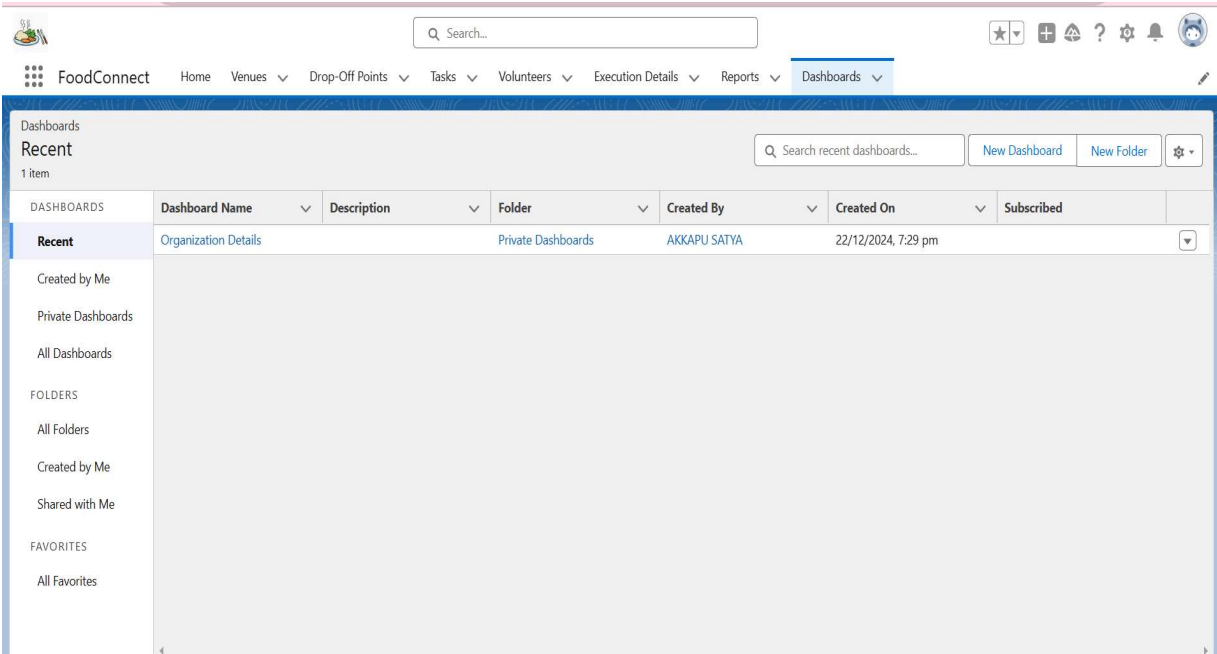
All Folders

Created by Me

Shared with Me

FAVORITES

All Favorites



## Process Workflow

1. **Donor Registers Food:** A donor logs leftover food details through the portal.
2. **Logistics Partner Assignment:** The system assigns a logistics partner to collect the food based on location and availability.
3. **Food Pickup:** Logistics partner collects the food from the donor.
4. **Food Distribution:** Collected food is delivered to the beneficiary organization.
5. **Feedback Collection:** System collects feedback from donors and beneficiaries to improve services.

## Benefits

- **Environmental Impact:** Reduces food wastage and its associated carbon footprint.
- **Social Impact:** Provides meals to underprivileged communities, improving their quality of life.
- **Operational Efficiency:** Streamlines the food donation and distribution process.

## Future Enhancements

- Integrate AI to predict food demand and optimize distribution.
- Implement blockchain for enhanced transparency and traceability.
- Develop a mobile application for donors and beneficiaries.

## Technical Implementation

### 1. Salesforce Features Used

- **Salesforce Service Cloud:** Manage donor requests, logistics, and beneficiary communication.
- **Salesforce Flow:** Automate processes such as donor notifications and logistics assignments.
- **Reports and Dashboards:** Track KPIs like food donations and delivery times.
- **Salesforce Mobile App:** Enable on-the-go updates for logistics partners.

### 2. Data Model

- **Objects:**
  - **Donor:** Stores donor information and donation history.
  - **Food Donation:** Tracks details of each donation.
  - **Logistics Partner:** Contains details of logistics providers.
  - **Beneficiary:** Records information about NGOs and shelters.
  - **Delivery:** Tracks the status and history of each delivery.
- **Relationships:**
  - Food Donations are linked to Donors.
  - Deliveries are linked to both Food Donations and Logistics Partners.
  - Beneficiary requests are linked to Deliveries.



## Conclusion

This Salesforce-based solution bridges the gap between food surplus and scarcity, ensuring efficient and impactful redistribution of leftover food. By leveraging the platform's capabilities, the project contributes to a more sustainable and socially responsible future.