



# 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.



Home | Salesforce

mvgrcollegeofengineering-7f-dev-ed.develop.lightning.force.com/lightning/page/home

Search...

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

### Dashboard Task Execution Details

As of 05-Jan-2025, 11:01 pm Viewing as AKKAPU SATYA

Open Refresh Subscribe

#### venue and Drop Off point

Venue Name	Drop-Off P...	distance c...
City Conference Hall	Coastal Terminal	0.0000
Grand Event Hall	Midtown Hub	0.0000
Mountain Retreat Center	City Square Dock	0.0000
Ocean View Banquet	Riverbank Point	0.0000

View Report (venue and Drop Off point)

#### Volunteer Task

Record Count

Volunteer: Volunteer ID

View Report (Volunteer Task)

#### Venue Form

Venue Name

Email

Phone

Venue Location

Latitude

Longitude

Next

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pub

### Public Groups

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.

View: All Edit Create New View

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Other All

Action	Label	Group Name	Created By	Created Date
Edit   Del	charlie	charlie	SATYA_AKKAPU	22/12/2024, 6:41 pm
Edit   Del	people	people	SATYA_AKKAPU	22/12/2024, 6:43 pm
Edit   Del	raj	raj	SATYA_AKKAPU	22/12/2024, 6:43 pm



Smart Setup

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users

Users

On this page you can create, view, and manage users.

To get more licenses, use the Your Account app. [Let's Go](#)

View: All Users Edit Create New View

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Other All

Action	Full Name	Alias	Username	Role	Active	Profile
<input type="checkbox"/> Edit	Charlie_Foundation_Charlie Foundation	charlie	charliefoundation@sb.com		✓	NGOs Profile
<input type="checkbox"/> Edit	Chatter Expert	Chatter	chatty00dwu00000edzin2an.kth3wf1dotqx@chatter.salesforce.com		✓	Chatter Free User
<input type="checkbox"/> Edit	People_Foundation_People Foundation	ppoop	peoplefoundation@sb.com		✓	NGOs Profile
<input type="checkbox"/> Edit	Raj_Foundation_Raj Foundation	rraj_	raifoundation@bs.com		✓	NGOs Profile
<input type="checkbox"/> Edit	SATIYA_AKKAPU	ASATY	satyaakkapu@myqrl.com		✓	System Administrator
<input type="checkbox"/> Edit	User_Integration	integ	integration@00dwu00000edzin2an.com		✓	Analytics Cloud Integration User
<input type="checkbox"/> Edit	User_Security	sec	insightssecurity@00dwu00000edzin2an.com		✓	Analytics Cloud Security User

New User Reset Password(s) Add Multiple Users

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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)		
Availble On	Availble_On_c	Date		
Contact Number	Contact_Number_c	Number(18, 0)		
Created By	CreatedById	Lookup(User)		
Date of Birth	Date_of_Birth_c	Date		



Search Setup

Setup Home Object Manager

SETUP > OBJECT MANAGER

### Task

Details

**Fields & Relationships**

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

**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)		

Search Setup

Setup Home Object Manager

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

**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)		



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Setup Home Object Manager

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)		✓

List View Button Layout

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SETUP > OBJECT MANAGER

### Execution Detail

Details

**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)		✓

List View Button Layout



Q Search...



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Reports

Recent

3 items

Q 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	
Public Reports						
All Reports						
FOLDERS						
All Folders						
Created by Me						
Shared with Me						
FAVORITES						
All Favorites						



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

**Dashboards**

Recent 1 item

Search recent dashboards... New Dashboard New Folder

DASHBOARDS	Dashboard Name	Description	Folder	Created By	Created On	Subscribed
Recent	Organization Details		Private Dashboards	AKKAPU SATYA	22/12/2024, 7:29 pm	

**Created by Me**

- Private Dashboards
- All Dashboards

**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.