

# ***To Supply Leftover Food to Poor***

## **Project Overview**

This project is focused on “To Supply Leftover Food to the Poor”, designed to address the challenge of food wastage. The goal is to deliver a comprehensive solution by leveraging Salesforce Services. This project aims to enhance food redistribution efficiency, improve operational visibility, and improve community engagement, supporting the long-term goal of reducing food insecurity and minimizing food waste.

## **Objectives**

- Minimize food waste by redirecting leftover food to those in need.
- Create a transparent and traceable food donation process.
- Empower donors, NGOs, and volunteers with a seamless digital experience.

### **Specific Outcomes**

- Development of a Salesforce-based platform to track and manage food donations.
- Real-time inventory and logistics management for food pickups and deliveries.
- Analytical dashboards to measure project impact and optimize operations.

## **Salesforce Key Features and Concepts**

Salesforce Nonprofit Cloud: For NGO collaboration and food request tracking.

Service Cloud: For handling donor and volunteer inquiries.

Einstein Analytics: To provide actionable insights through dashboards and reports.

### **Custom Objects:**

- Food Donations: Tracks details of donated food.
- Pickup Schedules: Manages logistics for pickups and deliveries.
- Distribution: Logs food delivery to NGOs and end beneficiaries.

**Automations:**

- Email/SMS alerts for donation confirmations and task updates.
- Workflow rules to assign volunteers for pickups.
- Triggers when any new request meets the criteria.

**Detailed Steps to Solution Design****Entities:**


- Donor: Stores donor details.
- Food Donation: Tracks donated food and quantity.
- NGO: Manages charity details.
- Volunteer: Manages tasks assigned to volunteers.
- Distribution: Records food delivery status.

**User Interface:**








- Donor Portal: Simple and intuitive interface for logging food donations.
- Volunteer Dashboard: A task overview page displaying pending and completed assignments.
- NGO Management Panel: Interface for NGOs to view available food and request donations.

**Business Logic :**


- Triggers: Apex triggers to automatically assign logistics resources to food donations.
- Validation Rules: Ensures data integrity for donation entries
- Scheduled Jobs: Automates the cleanup of expired food donation records.



Search...



FoodConnectHomeVenuesTasksDrop-Off PointsExecution DetailsVolunteersReportsDashboards



DashboardTask Execution Details

As of 13-Jan-2025, 7:22 pm Viewing as Basana Divya

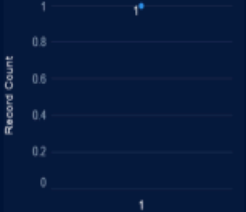
OpenRefreshSubscribe

venue and Drop Off point

Venue Na...	Drop-Off Point ...	distance calcul...
Sonu	tp	702.45

View Report (venue and Drop Off point)

Volunteer Task



Record Count

1

0.8

0.6

0.4


0.2

0

1

Auto generated Volunteer ID

View Report (Volunteer Task)



Venue Form

Venue Name

Email

Phone

Venue Location

Latitude

Longitude

Next

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Venue

Food\_For\_Need

New ContactEditNew Opportunity

RelatedDetails

Venue Name

Food\_For\_Need

Contact Email

maddilnikhil12@gmail.com

Contact Phone

8000593203

Location

Venue Location

Created By

Nikhil Maddili, 28/02/2025, 11:16 am





Owner

Nikhil Maddili

Last Modified By

Nikhil Maddili, 28/02/2025, 11:16 am

Activity



Filters: All time • All activities • All types

RefreshExpand AllView All

Upcoming & Overdue

No activities to show.

Get started by sending an email, scheduling a task, and more.

No past activity. Past meetings and tasks marked as done show up here.

**FoodConnect** Home Venues Tasks Drop-Off Points

**Drop-Off Point**  
**Vishakapatnam**

Related	Details
Drop-Off Point Name	Vishakapatnam
Venue_c	<a href="#">PVR foundation</a>
Location 2	15, 17
distance calculation	0.00
State	Andhra Pradesh
Distance	0.0000

**FoodConnect** Home Venues Tasks Drop-Off Points Execution D

**Task**  
**To supply leftover food**

Related	Details
Task Name	To supply leftover food
Auto generated	<a href="#">PVR foundation</a>
Auto generated	<a href="#">Vishakapatnam</a>
Distance	30.0000
Task ID	TASK-2
Date	22/01/2025
Food Category	Non-VegSnack
Number of People Served	100
Name of the Person	Basana Divya
Phone	<a href="#">5312347895</a>
Rating	4
Feedback	good food!

## Testing and Validation

### Unit Testing

- Apex classes and triggers were tested with a minimum of 95% code coverage.
- Validation rules and workflows were tested with dummy data to ensure correct behavior.

### User Interface Testing

- Conducted end-to-end testing for donor, NGO, and volunteer portals.
- Ensured mobile compatibility for on-the-go access.
- Tested usability with stakeholders for a user-friendly experience.

## Key Scenarios Addressed by Salesforce in the Implementation Project

This gives clarity that you are addressing various use cases or situations that Salesforce can handle during the implementation. Donors can log leftover food details, and the system tracks food availability in real time. Volunteers receive automated assignments for pickups and deliveries. NGOs receive detailed reports on food distribution, while donors can track their impact. The system supports

multiple regions and can expand as the initiative grows. Alerts notify the system admin about food nearing expiration, ensuring timely distribution.

FoodConnect

HomeVenuesTasksDrop-Off PointsExecution DetailsVolunteersReportsDashboards

Reports

Recent

3 items

Q Search recent reports...

New Report

New Folder

REPORTS	Report Name	Description	Folder	Created By	Created On	Subscribed
Recent						
Created by Me	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	25/2/2025, 6:32 pm	
Private Reports	Volunteer Task		Custom Reports	Nikhil Maddili	28/2/2025, 9:22 am	
Public Reports	venue and Drop Off point		Custom Reports	Nikhil Maddili	28/2/2025, 9:11 am	
All Reports						
FOLDERS						
All Folders						
Created by Me						
Shared with Me						
FAVORITES						
All Favorites						

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Dashboards

Recent

2 items

Q Search recent dashboards...

New Dashboard

New Folder

DASHBOARDS	Dashboard Name	Description	Folder	Created By	Created On	Subscribed
Recent	Task Execution Details		Custom Dashboards	Nikhil Maddili	28/2/2025, 9:29 am	
Created by Me	Organization Details		Custom Dashboards	Nikhil Maddili	28/2/2025, 9:24 am	
Private Dashboards						
All Dashboards						
FOLDERS						
All Folders						
Created by Me						
Shared with Me						
FAVORITES						
All Favorites						

https://mvgr67-dev-ed.develop.lightning.force.com/lightning/o/Dashboard/home

SETUP > OBJECT MANAGER

### Drop-Off Point

Details

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

Q 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	Distance__c	Number(14, 4)		▼
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)		✓ ▼

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  
Restriction Rules  
Scoping Rules

## Conclusion

The project “To Supply Leftover Food to the Poor” successfully addresses the multiple challenges of food waste and hunger by implementing a Salesforce-based solution. The development of a transparent and efficient food redistribution platform. Empowerment of stakeholders with real-time insights and streamlined workflows. Significant reduction in food waste and meaningful contributions to communities in need.