

To Supply Leftover Food to Poor

1. Project Overview

This project is focused on “To Supply Leftover Food to the Poor”, designed to address the challenge of food wastage and hunger. The goal is to deliver a comprehensive solution by leveraging Salesforce Nonprofit Cloud, Service Cloud, and Einstein Analytics. Through this project, we aim to enhance food redistribution efficiency, improve operational visibility, and foster community engagement, supporting the long-term goal of reducing food insecurity and minimizing food waste.

2. Objectives

Business Goals

- 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.

3. Salesforce Key Features and Concepts Utilized

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.

4.Detailed Steps to Solution Design**Data Models**


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

User Interface Designs








- 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 (e.g., food expiry dates).
- Scheduled Jobs: Automates the cleanup of expired food donation records.



Search...

FoodConnect

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Venues

Tasks

Drop-Off Points

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Dashboard

Organization Details

Open

Refresh


Subscribe

As of 12-Jan-2025, 8:06 pm Viewing as POUPALLI RUTH TEJASWINI


venue and Drop Off point

Venue Name	Drop-Off Point Name	Distance
PR foundation	Vishakapatnam	585.5598
PVR foundation	Srikakulam	215.7836

View Report (venue and Drop Off point)



Volunteer Task



View Report (Volunteer Task)

Venue Form

Venue Name

Email

Phone







Venue Location

Latitude

Longitude

Next

mvgrcollegeofengineerin-26e-dev-ed.develop.lightning.force.com/lightning/setup/EnhancedProfiles/home

Setup

Home

Object Manager

Q pro

Hyperforce Assistant

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Mass Transfer Approval Requests

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Data.com

Prospector Preferences

Prospector Users

Decision Explorer

Business Process Type Definition

Functions

Marketing

Lead Processes

Sales

Products

SETUP

Profiles

Profiles

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Edit | Delete | Create New View

New Profile

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	Profile Name	User License	Custom
<input type="checkbox"/>	NGOs Profile	Salesforce Platform	<input checked="" type="checkbox"/>


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Venue

PR foundation

[New Contact](#)
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[Related](#)
[Details](#)

Venue Name

PR foundation

Contact Email

rp@gmail.com

Contact Phone

9876543210

Location

12, 17

Venue Location

Polipalli

Created By

POLIPALLI RUTH TEJASWINI, 11/01/2025, 12:04 am

Owner

POLIPALLI RUTH TEJASWINI

[Activity](#)


Filters: All time • All activities • All types







[Refresh](#) • [Expand All](#) • [View 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.














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Drop-Off Point
Vishakapatnam

[New Contact](#)
[Edit](#)
[New Opportunity](#)

[Related](#)
[Details](#)

Drop-Off Point Name	Owner
Vishakapatnam	 POLIPALLI RUTH TEJASWINI
Venue_c	
PR foundation	
Location 2	
14, 12	
distance calculation	
585.5598	
State	
Andhra Pradesh	
Distance	
585.5598	
Created By	Last Modified By
 POLIPALLI RUTH TEJASWINI , 11/01/2025, 12:08 am	 POLIPALLI RUTH TEJASWINI , 11/01/2025, 12:08 am

[Activity](#)


Filters: All time • All activities • All types







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Drop-Off Point
Srikakulam

[New Contact](#)
[Edit](#)
[New Opportunity](#)

[Related](#)
[Details](#)

Drop-Off Point Name	Owner
Srikakulam	 POLIPALLI RUTH TEJASWINI
Venue_c	
PVR foundation	
Location 2	
14, 17	
distance calculation	
215.7836	
State	
Andhra Pradesh	
Distance	
215.7836	
Created By	Last Modified By
 POLIPALLI RUTH TEJASWINI , 11/01/2025, 12:05 am	 POLIPALLI RUTH TEJASWINI , 11/01/2025, 12:05 am

[Activity](#)


Filters: All time • All activities • All types







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Task




Supply left over food

[New Contact](#)
[Edit](#)
[New Opportunity](#)

[Related](#)
[Details](#)

Task Name	Supply left over food	Owner	POLIPALLU RUTH TEJASWINI
Sponsored By	PR foundation		
Drop-Off Point	Vishakapatnam		
Task ID	TASK-2		
Date	23/01/2025		
Food Category	Non-VegSnack		
Number of People Served	50		
Name of the Person	Ruth		
Phone	7396112345		
Rating	5		
Feedback	Nice food..		
Created By	POLIPALLU RUTH TEJASWINI, 11/01/2025, 12:10 am	Last Modified By	POLIPALLU RUTH TEJASWINI, 11/01/2025, 12:10 am

Activity


Filters: All time • All activities • All types







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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.




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Task




Supply left over food

[New Contact](#)
[Edit](#)
[New Opportunity](#)

[Related](#)
[Details](#)

Task Name	Supply left over food	Owner	POLIPALLU RUTH TEJASWINI
Sponsored By	PVR foundation		
Drop-Off Point	Srikakulam		
Task ID	TASK-1		
Date	15/01/2025		
Food Category	VegNon-Veg		
Number of People Served	100		
Name of the Person	Ruth		
Phone	9874561230		
Rating	4		
Feedback	Good food!!		
Created By	POLIPALLU RUTH TEJASWINI, 11/01/2025, 12:07 am	Last Modified By	POLIPALLU RUTH TEJASWINI, 11/01/2025, 12:07 am

Activity


Filters: All time • All activities • All types








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Upcoming & Overdue


No activities to show.
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Volunteer
Roshan

New Contact
Edit
New Opportunity

Related
Details

Volunteer Name

Roshan

Drop-Off Point

Srikakulam

Volunteer ID

2

Gender

Male

Available On

15/01/2025

Age

23

Email

roshan@gmail.com

Contact Number

6,54,12,30,987

Address

Srikakulam

Date of Birth

11/04/2002





Created By

POLIPALLI RUTH TEJASWINI, 11/01/2025, 12:14 am

Last Modified By

POLIPALLI RUTH TEJASWINI, 11/01/2025, 12:14 am

Activity


Filters: All time • All activities • All types








Refresh • Expand All • View All

Upcoming & Overdue


No activities to show.
Get started by sending an email, scheduling a task, and more.

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FoodConnect
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Execution Detail
Supply left over food

New Contact
Edit
New Opportunity

Related
Details

Execution Detail Name

Supply left over food

Volunteer

Roshan

Task

Supply left over food

Execution ID

2





Created By

POLIPALLI RUTH TEJASWINI, 11/01/2025, 12:15 am

Last Modified By

POLIPALLI RUTH TEJASWINI, 11/01/2025, 12:15 am

Activity

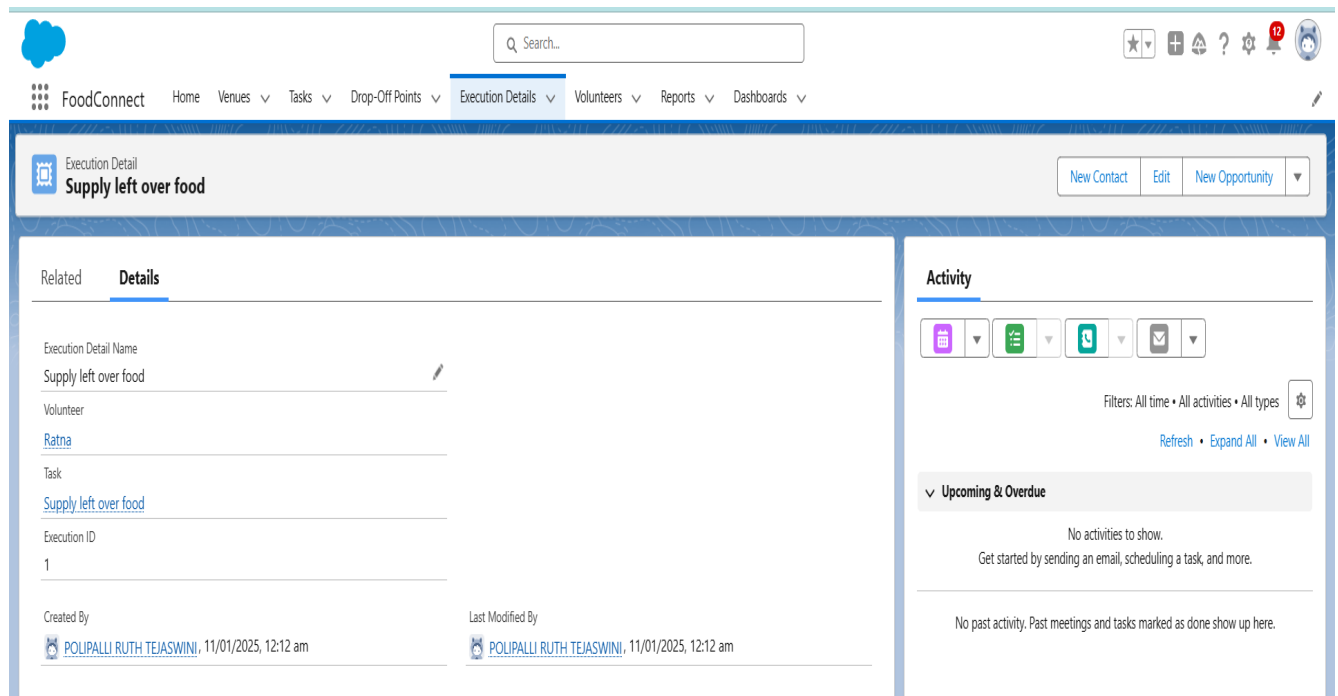
Filters: All time • All activities • All types

Refresh • Expand All • View 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.



The screenshot displays the Salesforce FoodConnect interface. At the top, there's a navigation bar with a search bar and various icons. Below it, a menu bar includes 'FoodConnect', 'Home', 'Venues', 'Tasks', 'Drop-Off Points', 'Execution Details', 'Volunteers', 'Reports', and 'Dashboards'. The main content area is titled 'Execution Detail' and 'Supply left over food'. It features a 'Details' tab with fields for 'Execution Detail Name' (Supply left over food), 'Volunteer' (Ratna), 'Task' (Supply left over food), 'Execution ID' (1), 'Created By' (POLIPALLI RUTH TEJASWINI, 11/01/2025, 12:12 am), and 'Last Modified By' (POLIPALLI RUTH TEJASWINI, 11/01/2025, 12:12 am). On the right, there's an 'Activity' section with filters and a list of activities, currently showing 'Upcoming & Overdue' with no activities to show.

5. 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.

6. 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.

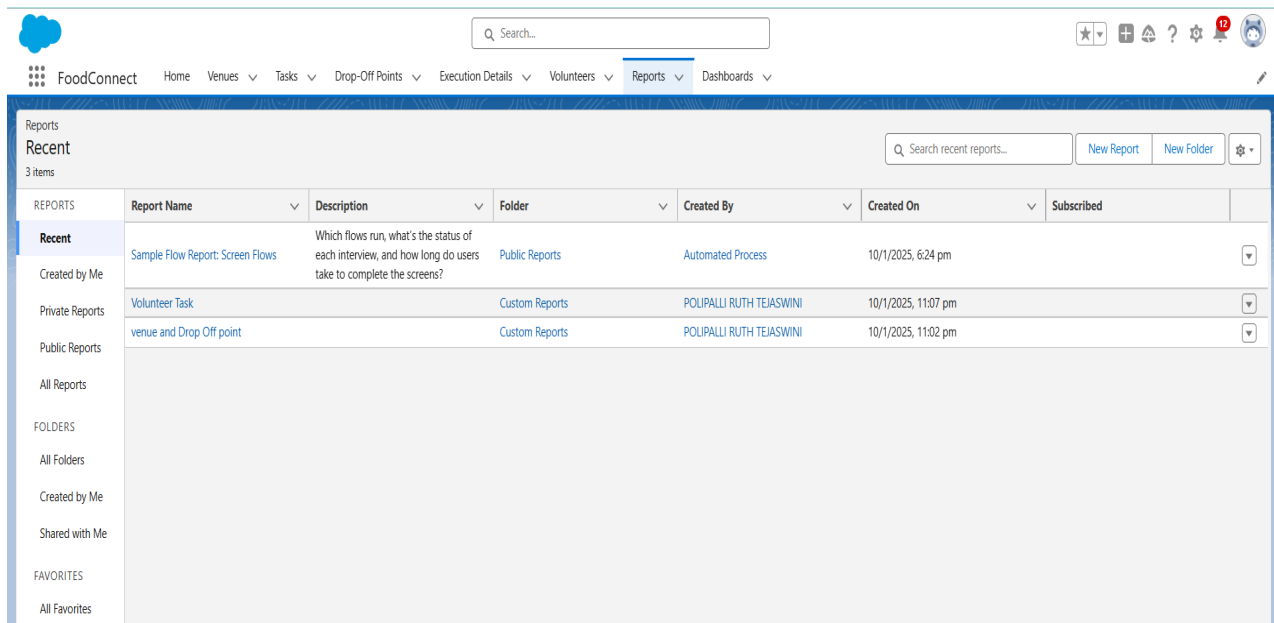
Food Donation Management: Donors can log leftover food details, and the system tracks food availability in real time.

Pickup and Delivery Scheduling: Volunteers receive automated assignments for pickups and deliveries.

Transparency and Reporting: NGOs receive detailed reports on food distribution, while donors can track their impact.

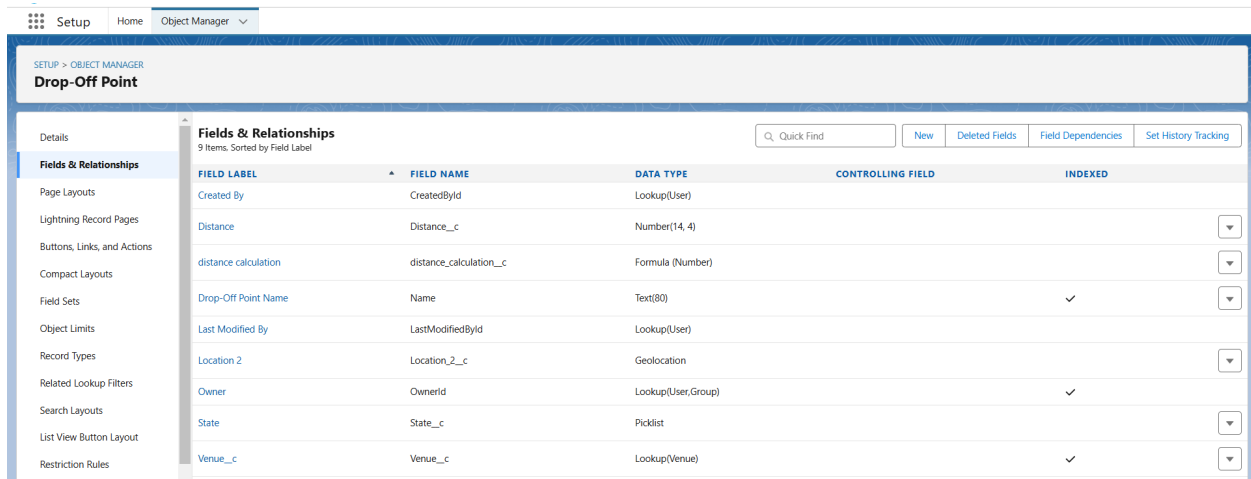
Scalability: The system supports multiple regions and can expand as the initiative grows.

Quality Assurance: Alerts notify the system admin about food nearing expiration, ensuring timely distribution.



The screenshot shows the 'Reports' section of the FoodConnect application. The top navigation bar includes 'Home', 'Venues', 'Tasks', 'Drop-Off Points', 'Execution Details', 'Volunteers', 'Reports', and 'Dashboards'. The 'Reports' section is active, showing a list of recent reports. The left sidebar contains 'Recent' (3 items), 'Created by Me', 'Private Reports', 'Public Reports', 'All Reports', 'FOLDERS', 'All Folders', 'Created by Me', 'Shared with Me', 'FAVORITES', and 'All Favorites'. The main content area displays a table of reports.

REPORTS	Report Name	Description	Folder	Created By	Created On	Subscribed
Recent	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	10/1/2025, 6:24 pm	
Created by Me	Volunteer Task		Custom Reports	POLIPALLI RUTH TEJASWINI	10/1/2025, 11:07 pm	
Private Reports	venue and Drop Off point		Custom Reports	POLIPALLI RUTH TEJASWINI	10/1/2025, 11:02 pm	
Public Reports						
All Reports						



The screenshot shows the 'Drop-Off Point' page in the 'Object Manager' section. The left sidebar contains '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', and 'Restriction Rules'. The main content area displays a table of fields and relationships.

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)		✓

7. Conclusion

The “To Supply Leftover Food to the Poor” project successfully addresses the dual challenge of food waste and hunger by implementing a Salesforce-based solution.

Achievements include:

- 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.

This project demonstrates the power of technology in addressing social challenges and lays a foundation for future expansion and innovation.