

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:**
 - 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 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.



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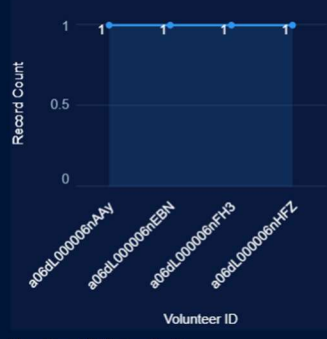

Dashboard
Task Execution Details
 As of 30-Dec-2024, 10:17 pm Viewing as Harshitha Andhavarapu


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venue and Drop Off point

| Drop-Off Point Name | Venue Name | dist... |
|---|-------------------------|---------|
| "Gateway to Giving" Distribution Center | Taj Mahal Banquet Hall | 119.40 |
| "Indore's Heart" Distribution Point | Amber Convention Center | 117.79 |
| "Kochi's Kindness" Distribution Hub | Harmony Event Space | 60.90 |
| "Pink City Feast" Distribution Site | The Royal Pavilion | 132.60 |

[View Report \(venue and Drop Off point\)](#)

Volunteer Task

[View Report \(Volunteer Task\)](#)



Venue Form

Venue Name


Email

Phone

Venue Location

Latitude


Longitude



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| Action | Profile Name | User License | Custom |
|--------------------------------------|--------------|---------------------|-------------------------------------|
| <input type="checkbox"/> Del Clone | NGOs Profile | Salesforce Platform | <input checked="" type="checkbox"/> |


Recently Viewed

1 item selected


Recently Viewed

☐ Amber Convention Center

☐ Harmony Event Space

☐ The Royal Pavilion


☒ Taj Mahal Banquet Hall


Venue
Taj Mahal Banquet Hall

Related

Details

Venue Name
Taj Mahal Banquet Hall


Owner
 [Harshitha Andhavarapu](#)


Contact Email
tajmahalhall@example.com


Contact Phone
+91 9876543210

Location
19, 72

Venue Location
Mumbai, Maharashtra

Created By
 [Harshitha Andhavarapu](#), 26/12/2024, 7:01 pm

Last Modified By
 [Harshitha Andhavarapu](#), 27/12/2024, 7:43 pm


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Recently Viewed

☒ "Pink City Feast" Distribution Site

☐ "Gateway to Giving" Distribution Center

☐ "Kochi's Kindness" Distribution Hub


☐ "Indore's Heart" Distribution Point


Drop-Off Point
"Pink City Feast" Distribution Site

Related

Details

Drop-Off Point Name
"Pink City Feast" Distribution Site

Owner
 [Harshitha Andhavarapu](#)


Venue_c
[The Royal Pavilion](#)


Location 2
26.9124, 75.8577


distance calculation
132.60

State
Rajasthan


Distance
12.0000

Created By
 [Harshitha Andhavarapu](#), 27/12/2024, 6:32 pm

Last Modified By
 [Harshitha Andhavarapu](#), 27/12/2024, 7:47 pm


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☐ Community Food Drive

☐ Food Aid Distribution

☐ Food Relief Program


Task

Hunger Relief Initiative

[Related](#)
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Task Name

Hunger Relief Initiative

Sponsored By

Taj Mahal Banquet Hall

Drop-Off Point

"Gateway to Giving" Distribution Center

Distance

11.0000

Task ID

TASK-8

Date

31/12/2024

Food Category

Veg;Non-Veg;Salad

Number of People Served

200


Phone


77777777

Rating


5

Owner


[Harshitha Andhavarapu](#)


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☐ Ramesh Kumar

☐ Priya Singh

☒ Akash Sharma

☐ Seema Patel


Volunteer

Akash Sharma

[Related](#)
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Volunteer Name

Akash Sharma

Drop-Off Point

"Kochi's Kindness" Distribution Hub

Volunteer ID

7

Gender

Male

Available On

30/12/2024

Age

22

Email


akash123@gmail.com


Contact Number

99,99,99,999


Address

789, Green Park, Pedathadivada, Andhra Pradesh, India




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"Nourishing Indore" at Amber Convention Center

☐


"Mumbai Smiles" Food Relief Initiative

☐

"Feeding Jaipur" at The Royal Pavilion

☐

"Harmony of Hope" Food Drive in Kochi


Execution Detail

"Nourishing Indore" at Amber Convention Center

Related

Details

Execution Name

"Nourishing Indore" at Amber Convention Center

Volunteer

[Ramesh Kumar](#)

Task

[Food Relief Program](#)

Created By

[Harshitha Andhavarapu](#), 27/12/2024, 7:04 pm

Last Modified By

[Harshitha Andhavarapu](#), 27/12/2024, 7:04 pm

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.

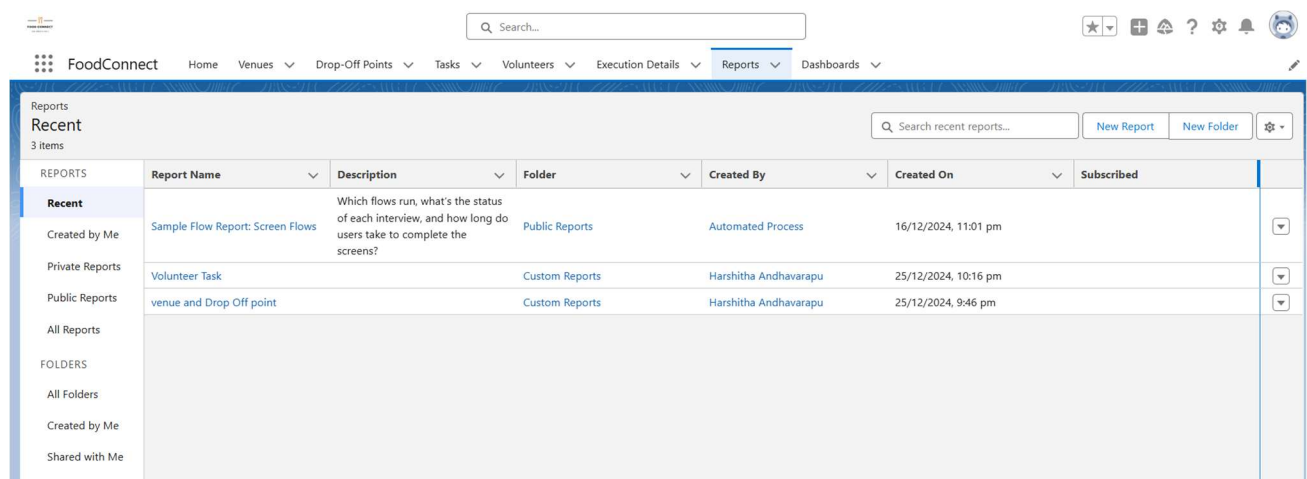
Food Donation Management: Donors can log leftover food details, and the system tracks food availability in real time.

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 interface includes a search bar at the top, a navigation menu with options like Home, Venues, Drop-Off Points, Tasks, Volunteers, Execution Details, Reports, and Dashboards, and a sidebar with filters for 'Recent' (3 items), 'Created by Me', 'Private Reports', 'Public Reports', 'All Reports', 'FOLDERS', 'All Folders', 'Created by Me', and 'Shared with Me'. The main table displays a list of reports with columns for Report Name, Description, Folder, Created By, Created On, and Subscribed. The table contains three rows of data.

| 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 | 16/12/2024, 11:01 pm | |
| Created by Me | Volunteer Task | | Custom Reports | Harshitha Andhavarapu | 25/12/2024, 10:16 pm | |
| Private Reports | venue and Drop Off point | | Custom Reports | Harshitha Andhavarapu | 25/12/2024, 9:46 pm | |



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SETUP > OBJECT MANAGER

Drop-Off Point

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

Restriction Rules

Fields & Relationships

9 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 | 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.