

To Supply Leftover Food to the 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.

Creation of objects and their respective fields

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

Restriction Rules

+ New Object

RECENT RECORDS

Venue

Volunteer

Task

Execution Detail

Drop-Off Point

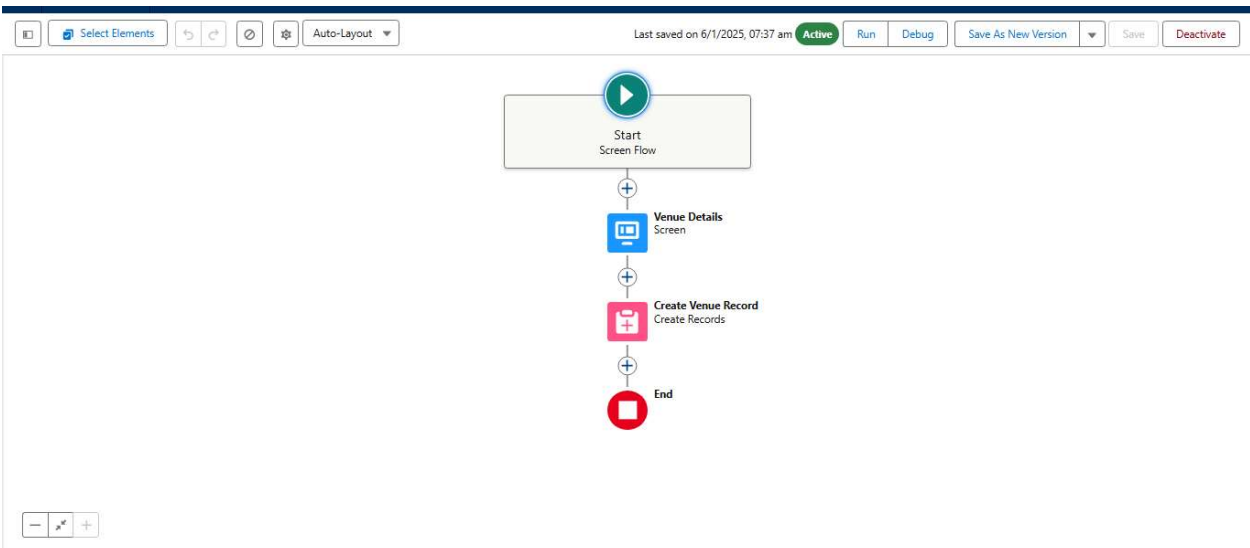
Q Quick Find

New Deleted Fields Field Dependencies Set History Tracking

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

javascript:void(0)

Flow creation



Creating custom tabs for objects

Setup Home Object Manager

Search Setup

tabs

User Interface

Rename Tabs and Labels

Tabs

Didn't find what you're looking for? Try using Global Search.

SETUP Tabs

Custom Tabs

You can create new custom tabs to extend Salesforce functionality or to build new application functionality.

Custom Object tabs look and behave like the standard tabs provided with Salesforce. Web tabs allow you to embed external web applications and content within the Salesforce window. Visualforce tabs allow you to embed Visualforce pages. Lightning Component tabs allow you to add Lightning components to the navigation menu in Lightning Experience and the mobile app. Lightning Page tabs allow you to add Lightning Pages to Lightning Experience and the mobile app.

Custom Object Tabs [New](#) [What is This?](#)

Action	Label	Tab Style	Description
Edit Del	Close-Off Points	Bank	
Edit Del	Execution Details	Can	
Edit Del	Tasks	Books	
Edit Del	Vehicles	Airplane	
Edit Del	Volunteers	Building	

Web Tabs [New](#) [What is This?](#)

Assigning profile name

Setup Home Object Manager

Search Setup

profiles

Users

Profiles

Didn't find what you're looking for? Try using Global Search.

SETUP Profiles

Profiles

[All Profiles](#) [Edit](#) | [Delete](#) | [Create New View](#)

[New Profile](#) [f](#)

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
Edit Del ...	NGOs Profile	Salesforce Platform	<input checked="" type="checkbox"/>

creation of public groups

Setup Home Object Manager

Search Setup

public gro

Users

Public Groups

Didn't find what you're looking for? Try using Global Search.

SETUP Public Groups

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	feed	feed	mpouram_desai@ca	06/01/2025, 7:47 am
Edit Del	harvest	harvest	mpouram_desai@ca	06/01/2025, 7:47 am
Edit Del	nourish	nourish	mpouram_desai@ca	06/01/2025, 7:48 am

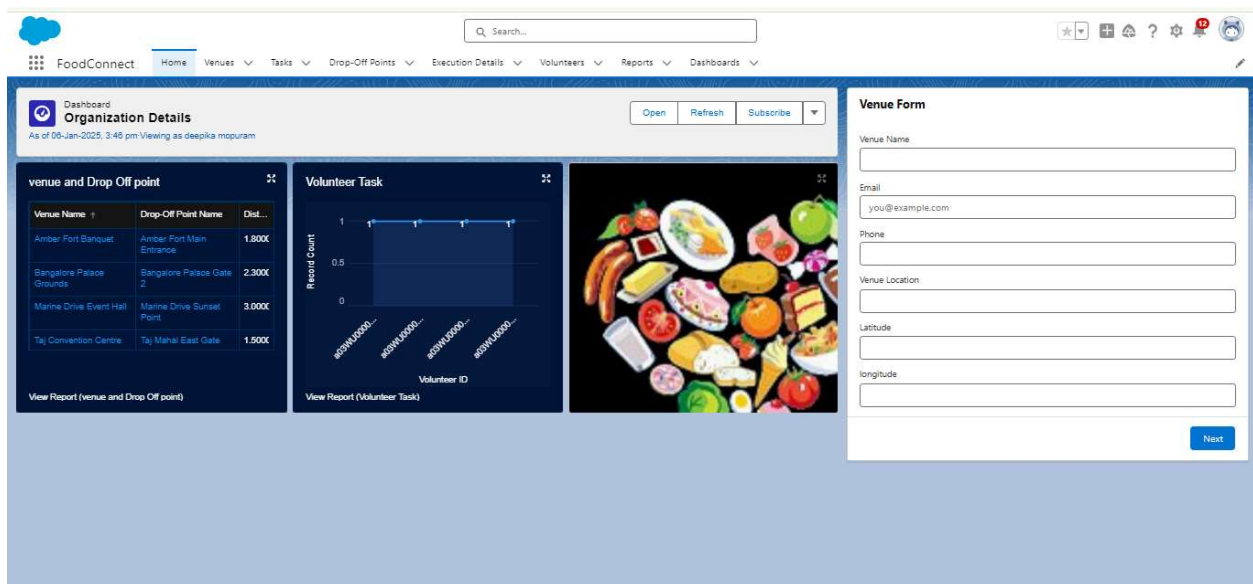
5. Testing and Validation

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

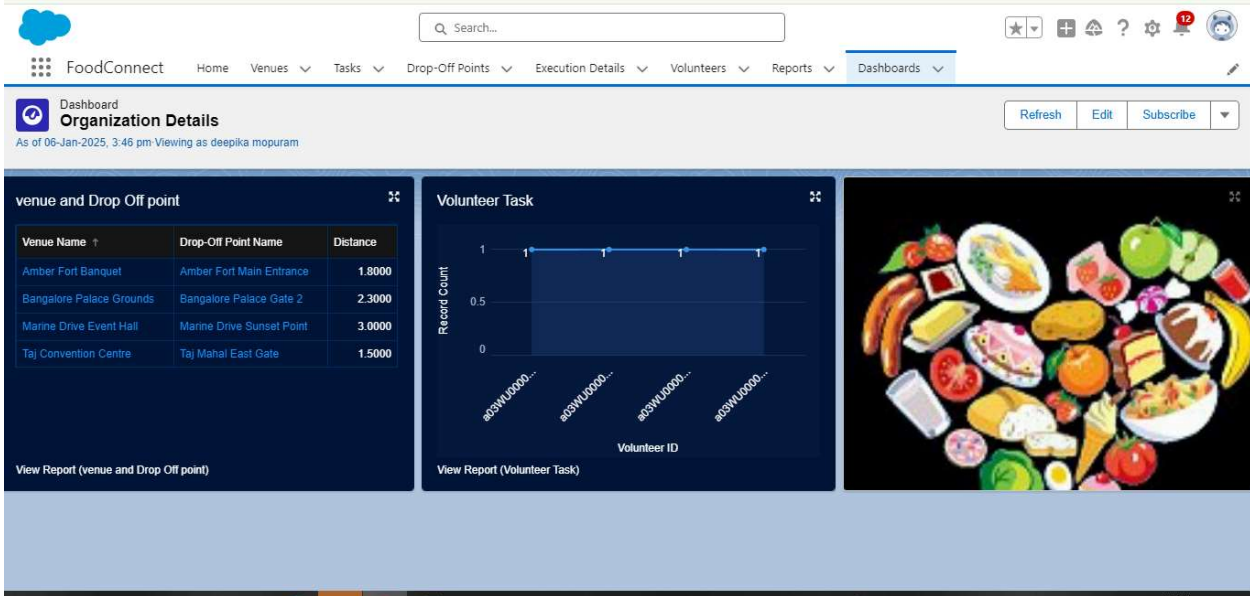
- Conducted end-to-end testing for donor, NGO, and volunteer portals.
- Ensured mobile compatibility for on-the-go access.
- Tested usability with stakeholders for a user-friendly experience.



The screenshot displays the FoodConnect dashboard interface. At the top, there is a navigation bar with a search bar and various menu items: Home, Venues, Tasks, Drop-Off Points, Execution Details, Volunteers, Reports, and Dashboards. The main content area is divided into several sections:

- Dashboard Organization Details:** A section at the top left showing the organization's name, a date/time stamp, and a user name. It includes buttons for Open, Refresh, and Subscribe.
- venue and Drop Off point:** A table listing venues and their corresponding drop-off points with distances.

Venue Name	Drop-Off Point Name	Dist...
Amber Fort Banquet	Amber Fort Main Entrance	1.800X
Bangalore Palace Grounds	Bangalore Palace Gate 2	2.300X
Marina Drive Event Hall	Marina Drive Sunset Point	3.000X
Taj Convention Centre	Taj Mahal East Gate	1.500X
- Volunteer Task:** A section showing a bar chart of the number of tasks assigned to different volunteers, with a legend for Volunteer ID.
- Venue Form:** A form on the right side for adding or editing venue information, including fields for Venue Name, Email, Phone, Venue Location, Latitude, and Longitude. A Next button is at the bottom right.



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.


FoodConnect

[Home](#)
[Venues](#)
[Tasks](#)
[Drop-Off Points](#)
[Execution Details](#)
[Volunteers](#)
[Reports](#)
[Dashboards](#)


Recently Viewed

4 Items • Updated a few seconds ago


☐ Recently Viewed ↓

☐ Marine Drive Event Hall

☐ Amber Fort Banquet

☐ Bangalore Palace Grounds

☐ Taj Convention Centre


Venue

Marine Drive Event Hall

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

Related

Details

Venue Name
Marine Drive Event Hall

Owner
deepika mopuram

Contact Email
contact@marinedriveevents.com

Contact Phone
+91 93210 12345

Location
19, 73

Venue Location
Mumbai, Maharashtra

Created By
deepika mopuram - 06/01/2025, 2:32 pm

Last Modified By
deepika mopuram - 06/01/2025, 2:32 pm


Activity

[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.


FoodConnect

[Home](#)
[Venues](#)
[Tasks](#)
[Drop-Off Points](#)
[Execution Details](#)
[Volunteers](#)
[Reports](#)
[Dashboards](#)


Task

Food Delivery - Marine Drive

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

Related

Details

Task Name
Food Delivery - Marine Drive

Owner
deepika mopuram

Venue
Marine Drive Event Hall

Drop-Off Point
Marine Drive Sunset Point

Distance
3.0000

Task ID
TASK-4

Date
01/06/2025

Food Category
Non-Veg Salad

Number of People Served
120

Name of the Person
Ramesh Patel


Activity

[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.


FoodConnect

[Home](#)
[Venues](#)
[Tasks](#)
[Drop-Off Points](#)
[Execution Details](#)
[Volunteers](#)
[Reports](#)
[Dashboards](#)

Recently Viewed

4 items • Updated a few seconds ago

☐ **Recently Viewed**

☐ Marine Drive Sunset Point

☐ Amber Fort Main Entrance

☐ Bangalore Palace Gate 2


☐ Taj Mahal East Gate

Drop-Off Point
Marine Drive Sunset Point

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

Related
Details

Drop-Off Point Name
Marine Drive Sunset Point

Owner
 [deepika mopuram](#)


Venue_c
[Marine Drive Event Hall](#)


Location 2
18.9438, 72.8225

distance calculation
19.68




State
Maharashtra

Distance
3,0000

Created By
 [deepika mopuram](#), 06/01/2025, 2:42 pm

Last Modified By
 [deepika mopuram](#), 06/01/2025, 2:42 pm

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.


FoodConnect

[Home](#)
[Venues](#)
[Tasks](#)
[Drop-Off Points](#)
[Execution Details](#)
[Volunteers](#)
[Reports](#)
[Dashboards](#)

Recently Viewed

4 items • Updated a few seconds ago

☐ **Recently Viewed**

☐ OperationSequence_001

☐ ProcessDetail_V1

☐ TaskFlow_StageA

☐ ExecutionPlan_01

Execution Detail
OperationSequence_001

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


Related
Details


Execution Detail Name
OperationSequence_001

Volunteer
[Arjun Singh](#)




Task
[Food Delivery - Marine Drive](#)

Execution ID
4

Created By
 [deepika mopuram](#), 06/01/2025, 3:44 pm

Last Modified By
 [deepika mopuram](#), 06/01/2025, 3:44 pm

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 Smart Internz Salesforce interface. The top navigation bar includes the Smart Internz logo, the SMARTBRIDGE logo with the tagline "Let's Bridge the Gap" and "a Veranda Enterprise", and a Salesforce PARTNER badge. The main navigation menu includes FoodConnect, Home, Venues, Tasks, Drop-Off Points, Execution Details, Volunteers, Reports, and Dashboards. The left sidebar shows a "Recently Viewed" list with 4 items, including Sunita Rao, Karan Mehta, Priya Nair, and Arjun Singh. The main content area shows the Volunteer profile for Sunita Rao, with tabs for Details and Activity. The Details tab is active, showing fields for Volunteer Name, Drop-Off Point, Volunteer ID, Gender, Available On, Age, Email, Contact Number, and Address. The Activity tab shows filters for All time, All activities, and All types, with a "Refresh" button and a "View All" link. The bottom section shows the Reports interface with a table of custom reports.

REPORTS	Name	Description	Folder	Created By	Created On	Subscribed
Recent	venue and Drop Off point		Custom Reports	deepika mopuram	6/1/2025, 7:58 am	
Created by Me	Volunteer Task		Custom Reports	deepika mopuram	6/1/2025, 1:50 pm	

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.