

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).

- 
FoodConnect

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

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Dashboard

Task Execution Details


As of 13-Jan-2020, 11:24 am Viewing as Challenge Dashboard

Venue and Drop Off point

Venue Name	Challenge	Drop-Off Point Name
PVR Hall		Vinikagatanam
PVR Hall		Vinikagatanam

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

Volunteer Task



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

Venue Form

Venue Name

Email


Phone

Venue Location

Latitude

Longitude

[Next](#)



FOOD CONNECT

FOOD CONNECTS PEOPLE

Student - Skill Wallet x | SI-9546-1737034039 x | Your temporary pass x | Home - Google Drive x | Ganivada-Chaitanya x | PR Hall | Venue | Sales x | Profiles | Salesforce x | +

mvgrcollegeofengineerin-1d8-dev-ed.develop.lightning.force.com/lightning/r/Venue__c/a00dL00000ZlHsQAJ/view

Search...

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

Venue PR Hall New Contact Edit New Opportunity

Related Details

Venue Name	PR Hall	Owner	Chaitanya Ganivada
Contact Email	chay@gmail.com		
Contact Phone	7896541232		
Location	12, 13		
Venue Location	Vishakapatnam		
Created By	Chaitanya Ganivada, 13/01/2025, 11:02 pm	Last Modified By	Chaitanya Ganivada, 13/01/2025, 11:02 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.

Student - Skill Wallet x | SI-9546-1737034039 x | Your temporary pass x | Home - Google Drive x | Ganivada-Chaitanya x | PVR Hall | Venue | Sales x | Profiles | Salesforce x | +

mvgrcollegeofengineerin-1d8-dev-ed.develop.lightning.force.com/lightning/r/Venue__c/a00dL00000ZlH6LQAR/view

Search...

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

Venue PVR Hall New Contact Edit New Opportunity

Related Details

Venue Name	PVR Hall	Owner	Chaitanya Ganivada
Contact Email	chai@gmail.com		
Contact Phone	5641239875		
Location	12, 13		
Venue Location	Vishakapatnam		
Created By	Chaitanya Ganivada, 13/01/2025, 11:18 pm	Last Modified By	Chaitanya Ganivada, 13/01/2025, 11:23 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.

Student - Skill Wallet x SI-9546-1737034039 x Your temporary pass x Home - Google Drive x Ganivada-Chaitanya x To Supply Food to the needed x Profiles | Salesforce x +

mvgrcollegeofengineerin-1d8-dev-ed.develop.lightning.force.com/lightning/r/Task_c/a02dL00000A05CSQAL/view

Search...

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

Task To Supply Food to the needed New Contact Edit New Opportunity

Related Details

Task Name	To Supply Food to the needed	Owner	Chaitanya Ganivada
Venue	PR Hall		
Drop-Off Point	Vishkapatnam		
Task ID	TASK-1		
Date	15/01/2025		
Food Category	Veg:Non-Veg		
Number of People Served	200		
Name of the Person	Chaitanya		
Phone	5641239875		
Rating	5		
Feedback	Good food!!		

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.

Student - Skill Wallet x SI-9546-1737034039 x Your temporary pass x Home - Google Drive x Ganivada-Chaitanya x To Supply Food to the needed x Profiles | Salesforce x +

mvgrcollegeofengineerin-1d8-dev-ed.develop.lightning.force.com/lightning/r/Task_c/a02dL00000A06g1QAD/view

Search...

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

Task To Supply Food to the needed New Contact Edit New Opportunity

Related Details

Task Name	To Supply Food to the needed	Owner	Chaitanya Ganivada
Venue	PVR Hall		
Drop-Off Point	Vishkapatnam		
Task ID	TASK-2		
Date	23/01/2025		
Food Category	Veg:Non-Veg		
Number of People Served	150		
Name of the Person	chaitu		
Phone	5987463215		
Rating	5		
Feedback	Good food		

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.

Student - Skill Wallet x SI-9546-1737034039 x Your temporary pass x Home - Google Drive x Ganivada-Chaitanya x Vishkapatanam | Dro x Profiles | Salesforce x +

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Search...

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

Drop-Off Point
Vishkapatanam

New Contact Edit New Opportunity

Related Details

Drop-Off Point Name	Vishkapatanam	Owner	Chaitanya Ganivada
Venue_c	PVR Hall		
Location 2	12, 13		
distance calculation	0.00		
State	Andhra Pradesh		
Distance	0		
Created By	Chaitanya Ganivada - 13/01/2025, 11:19 pm	Last Modified By	Chaitanya Ganivada - 13/01/2025, 11:19 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.

Student - Skill Wallet x SI-9546-1737034039 x Your temporary pass x Home - Google Drive x Ganivada-Chaitanya x Vishkapatanam | Dro x Profiles | Salesforce x +

mvgrcollegeofengineerin-1d8-dev-ed.develop.lightning.force.com/lightning/r/Drop_Off_Point_c/a01dL00000kJSZCQ44/view

Search...

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

Drop-Off Point
Vishkapatanam

New Contact Edit New Opportunity

Related Details

Drop-Off Point Name	Vishkapatanam	Owner	Chaitanya Ganivada
Venue_c	PR Hall		
Location 2	12, 13		
distance calculation	0.00		
State	Andhra Pradesh		
Distance	0		
Created By	Chaitanya Ganivada - 13/01/2025, 11:03 pm	Last Modified By	Chaitanya Ganivada - 13/01/2025, 11:03 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.

Student - Skill Wallet x | SI-9546-1737034039 x | Your temporary pass x | Home - Google Drive x | Ganivada-Chaitanya x | suppl food to the poor x | Profiles | Salesforce x | +

mvgrcollegeofengineerin-1d8-dev-ed.develop.lightning.force.com/lightning/r/Execution_Detail__c/a04dL000001Y2ObQAK/view

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

Execution Detail
suppl food to the poor [New Contact](#) [Edit](#) [New Opportunity](#)

Related Details

Execution Detail Name
suppl food to the poor

Volunteer
[Chaitu](#)

Task
[To Supply Food to the needed](#)

Created By
[Chaitanya Ganivada](#) · 13/01/2025, 11:09 pm

Last Modified By
[Chaitanya Ganivada](#) · 13/01/2025, 11:09 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.

Student - Skill Wallet x | SI-9546-1737034039 x | Your temporary pass x | Home - Google Drive x | Ganivada-Chaitanya x | suppl food to the needed x | Profiles | Salesforce x | +

mvgrcollegeofengineerin-1d8-dev-ed.develop.lightning.force.com/lightning/r/Execution_Detail__c/a04dL000001Y2YHQAO/view

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

Execution Detail
supply food to the needed [New Contact](#) [Edit](#) [New Opportunity](#)

Related Details

Execution Detail Name
supply food to the needed

Volunteer
[chinnu](#)

Task
[To Supply Food to the needed](#)

Created By
[Chaitanya Ganivada](#) · 13/01/2025, 11:21 pm

Last Modified By
[Chaitanya Ganivada](#) · 13/01/2025, 11:21 pm

Activity

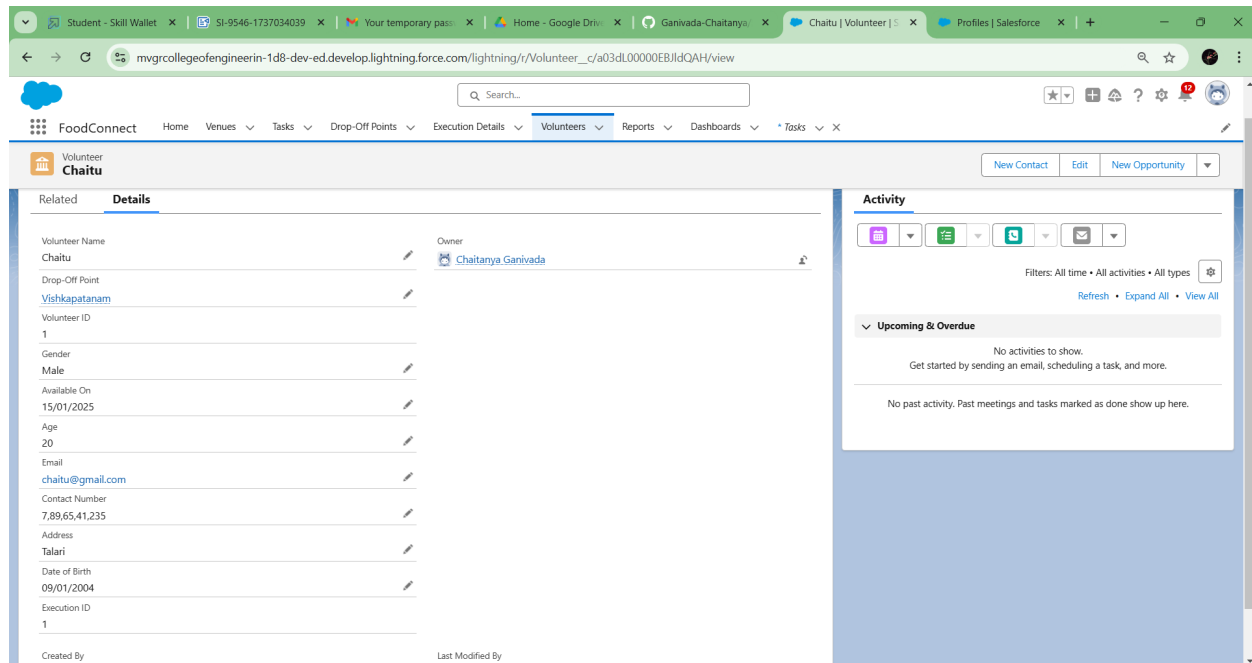
Filters: All time · All activities · All types

[Refresh](#) · [Expand All](#) · [View All](#)

Upcoming & Overdue

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

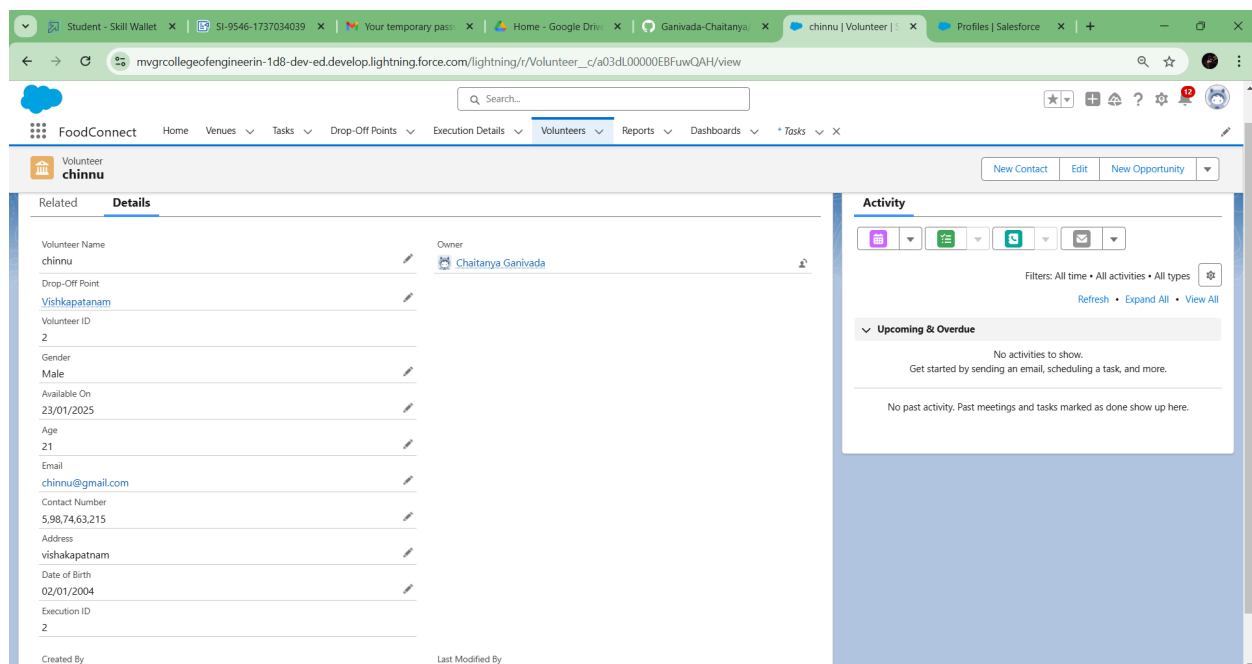
No past activity. Past meetings and tasks marked as done show up here.



The screenshot shows the Salesforce Lightning interface for a volunteer named Chaitu. The page is titled "Volunteer Chaitu" and includes a search bar and navigation tabs for Home, Venues, Tasks, Drop-Off Points, Execution Details, Volunteers, Reports, Dashboards, and Tasks. The "Volunteers" tab is active, displaying a list of related records and a detailed view of Chaitu's information.

Related	Details
Volunteer Name	Chaitu
Drop-Off Point	Vishkapatanam
Volunteer ID	1
Gender	Male
Available On	15/01/2025
Age	20
Email	chaitu@gmail.com
Contact Number	7,89,65,41,235
Address	Talari
Date of Birth	09/01/2004
Execution ID	1

Activity section shows filters for All time, All activities, and All types. The "Upcoming & Overdue" section indicates no activities to show.



The screenshot shows the Salesforce Lightning interface for a volunteer named chinnu. The page is titled "Volunteer chinnu" and includes a search bar and navigation tabs for Home, Venues, Tasks, Drop-Off Points, Execution Details, Volunteers, Reports, Dashboards, and Tasks. The "Volunteers" tab is active, displaying a list of related records and a detailed view of chinnu's information.

Related	Details
Volunteer Name	chinnu
Drop-Off Point	Vishkapatanam
Volunteer ID	2
Gender	Male
Available On	23/01/2025
Age	21
Email	chinnu@gmail.com
Contact Number	5,98,74,63,215
Address	vishakapatnam
Date of Birth	02/01/2004
Execution ID	2

Activity section shows filters for All time, All activities, and All types. The "Upcoming & Overdue" section indicates 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.

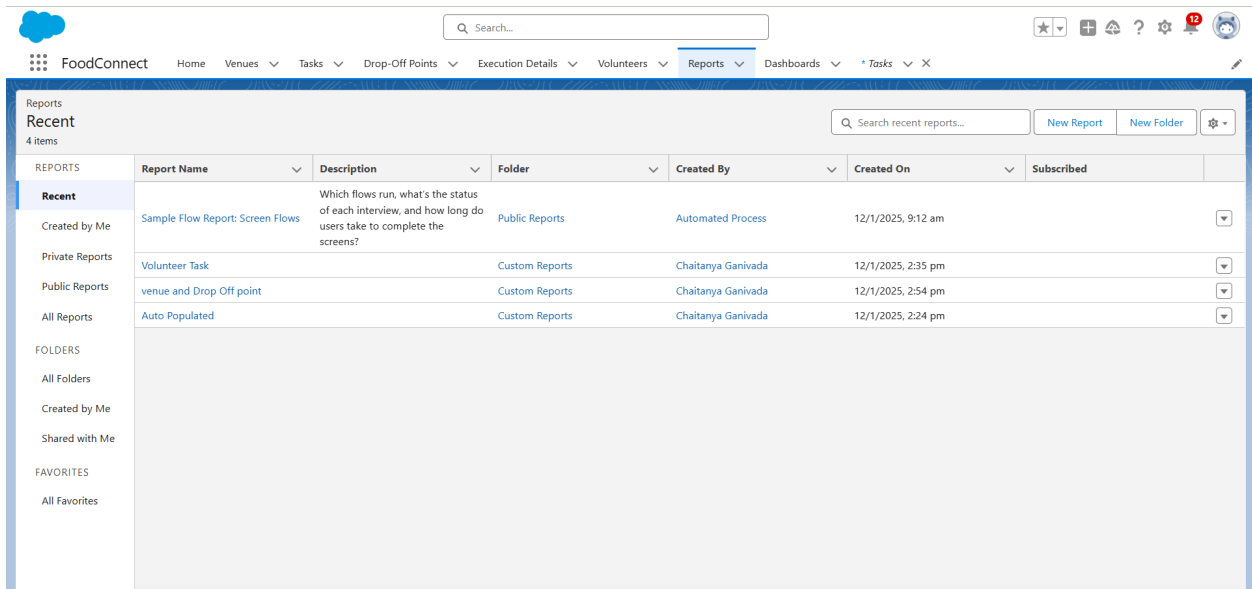
Food Donation Management: Donors can log leftover food details, and the system tracks food availability in real time.

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 Salesforce interface. The top navigation bar includes 'Home', 'Venues', 'Tasks', 'Drop-Off Points', 'Execution Details', 'Volunteers', 'Reports' (selected), 'Dashboards', and 'Tasks'. The 'Reports' section is titled 'Recent' and shows 4 items. A search bar for recent reports is available, along with 'New Report' and 'New Folder' buttons. The table lists reports with columns for Report Name, Description, Folder, Created By, Created On, and Subscribed. The reports are categorized under 'Recent', 'Created by Me', 'Private Reports', 'Public Reports', and 'All Reports'. The 'Recent' category shows four reports: 'Sample Flow Report: Screen Flows', 'Volunteer Task', 'venue and Drop Off point', and 'Auto Populated'.

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	12/1/2025, 9:12 am	
Created by Me	Volunteer Task		Custom Reports	Chaitanya Ganivada	12/1/2025, 2:35 pm	
Private Reports	venue and Drop Off point		Custom Reports	Chaitanya Ganivada	12/1/2025, 2:54 pm	
Public Reports	Auto Populated		Custom Reports	Chaitanya Ganivada	12/1/2025, 2:24 pm	
All Reports						

The interface also includes sections for 'FOLDERS' (All Folders, Created by Me, Shared with Me) and 'FAVORITES' (All Favorites).



[Setup](#)
[Home](#)
[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](#)
[Scoping Rules](#)

Fields & Relationships
 9 Items, Sorted by Field Label

[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(18, 0)		
Distance Calculation	Distance_Calculation__c	Number(18, 0)		
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	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.