To Supply Leftover Food to Poor

1. Project Overview

This project, titled **"To Supply Leftover Food to the Poor,"** aims to tackle the issues of food wastage and hunger. It provides a holistic solution using **Salesforce Nonprofit Cloud, Service Cloud, and Einstein Analytics**. The objective is to improve food redistribution efficiency, enhance operational transparency, and strengthen community involvement, ultimately reducing food insecurity and minimizing waste.

2. Objectives

Business Goals

- Reduce food waste by redirecting surplus food to those in need.
- Establish a transparent and traceable food donation system.
- Provide donors, NGOs, and volunteers with a seamless digital experience.

Specific Outcomes

- Develop a **Salesforce-based platform** for tracking and managing food donations.
- Implement **real-time inventory and logistics management** for food pickups and deliveries.
- Create **analytical dashboards** to assess project impact and optimize operations.

3. Salesforce Key Features and Concepts Utilized

- **Salesforce Nonprofit Cloud** – Facilitates collaboration with NGOs and tracks food requests.
- **Service Cloud** – Manages donor and volunteer inquiries.
- **Einstein Analytics** – Generates insightful reports and dashboards.

Custom Objects:

- **Food Donations:** Maintains records of donated food.
- **Pickup Schedules:** Organizes logistics for collection and distribution.
- **Distribution:** Logs food deliveries to NGOs and end recipients.

Automations:

- **Email/SMS notifications** for donation confirmations and task updates.
- **Workflow rules** to allocate volunteers for food pickups.

4. Detailed Solution Design

Data Models

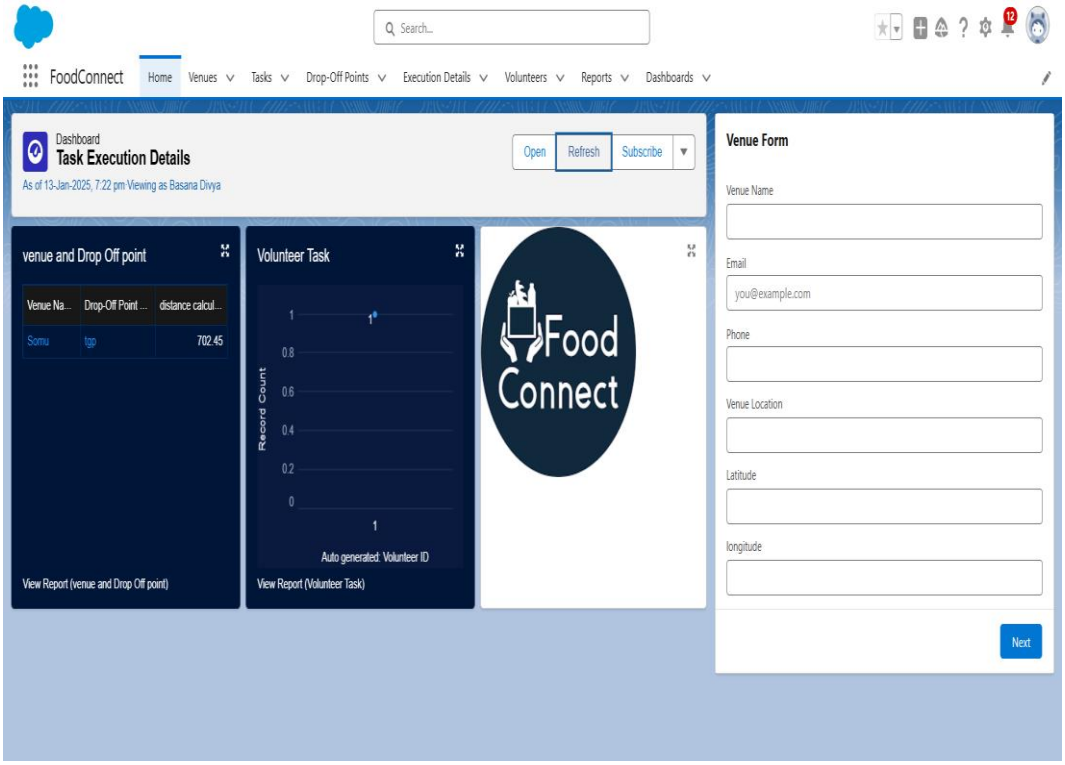
- **Donor:** Stores donor information.
- **Food Donation:** Tracks details and quantities of donated food.
- **NGO:** Manages charity details.
- **Volunteer:** Assigns and tracks volunteer tasks.
- **Distribution:** Records food delivery status.

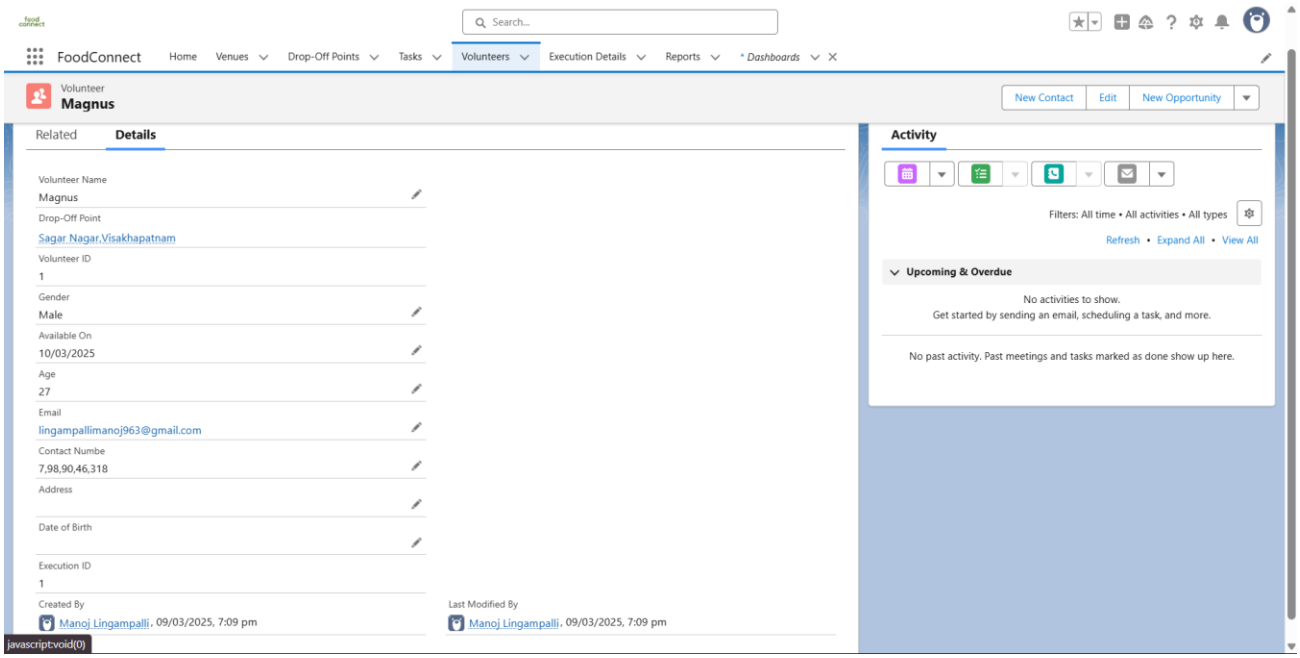
User Interface Designs

- **Donor Portal:** A simple and intuitive platform for logging food donations.
- **Volunteer Dashboard:** Displays assigned, pending, and completed tasks.
- **NGO Management Panel:** Enables NGOs to view available food and request donations.

Business Logic

- **Triggers:** Apex triggers automatically assign logistics resources to food donations.
- **Validation Rules:** Ensure data integrity (e.g., verifying food expiry dates).
- **Scheduled Jobs:** Automate the removal of expired food donation records.

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New Contact
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Related
Details
Volunteer Name
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Drop-Off Point
Sagar Nagar,Visakhapatnam
Volunteer ID
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Available On
10/03/2025
Age
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Contact Numbe
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Refresh • Expand All • View All
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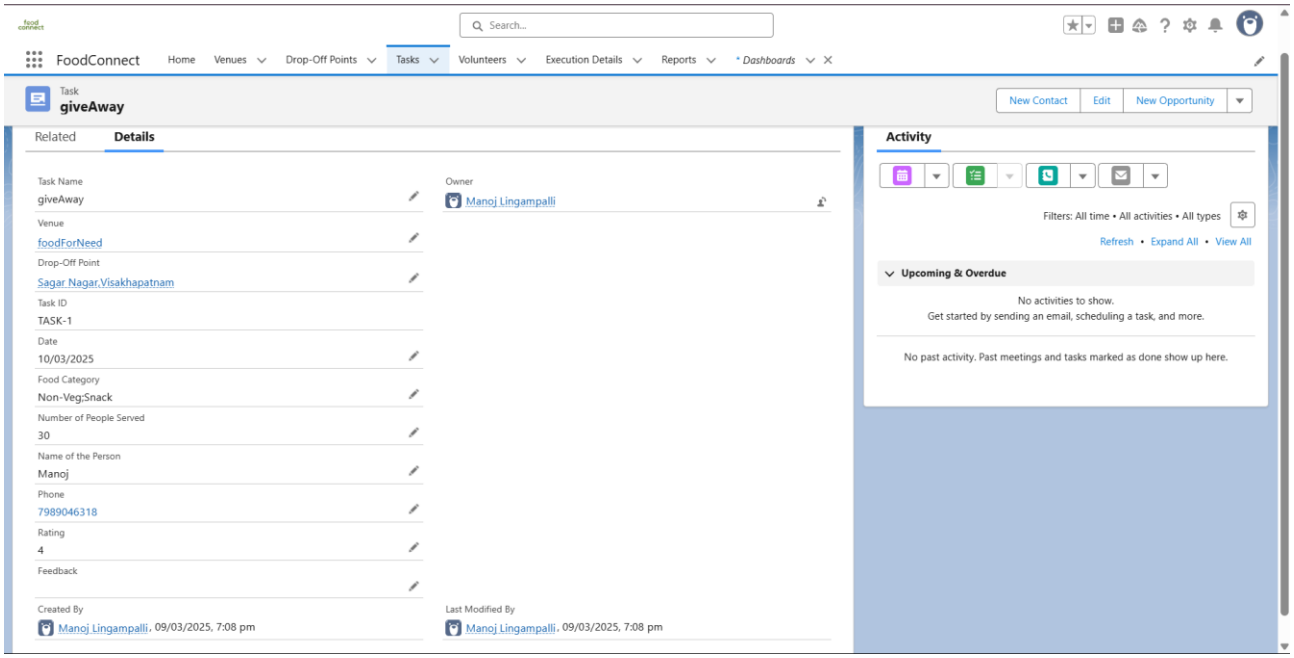
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Execution Details
Reports
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New Contact
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Related
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Task Name
giveAway
Owner
Manoj Lingampalli
Venue
foodForNeed
Drop-Off Point
Sagar Nagar,Visakhapatnam
Task ID
TASK-1
Date
10/03/2025
Food Category
Non-Veg;Snack
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Phone
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Rating
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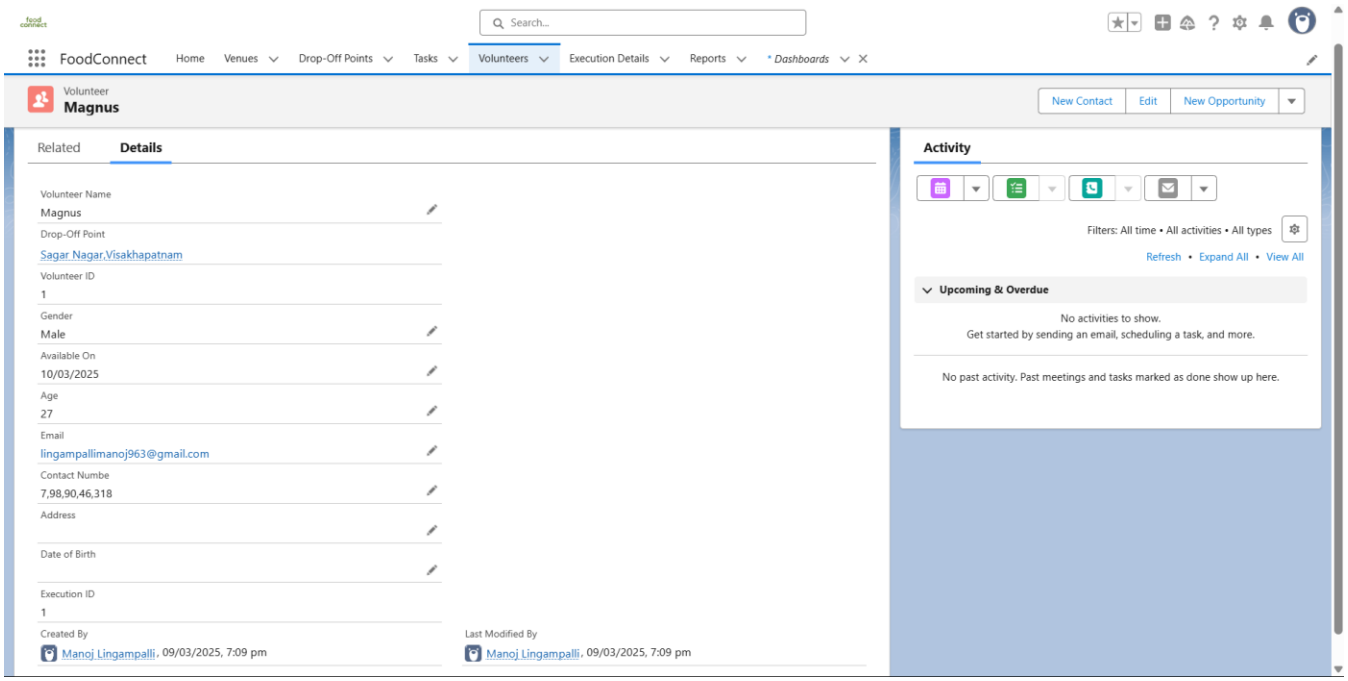
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Volunteer Name
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Drop-Off Point
Sagar Nagar,Visakhapatnam
Volunteer ID
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Contact Numbe
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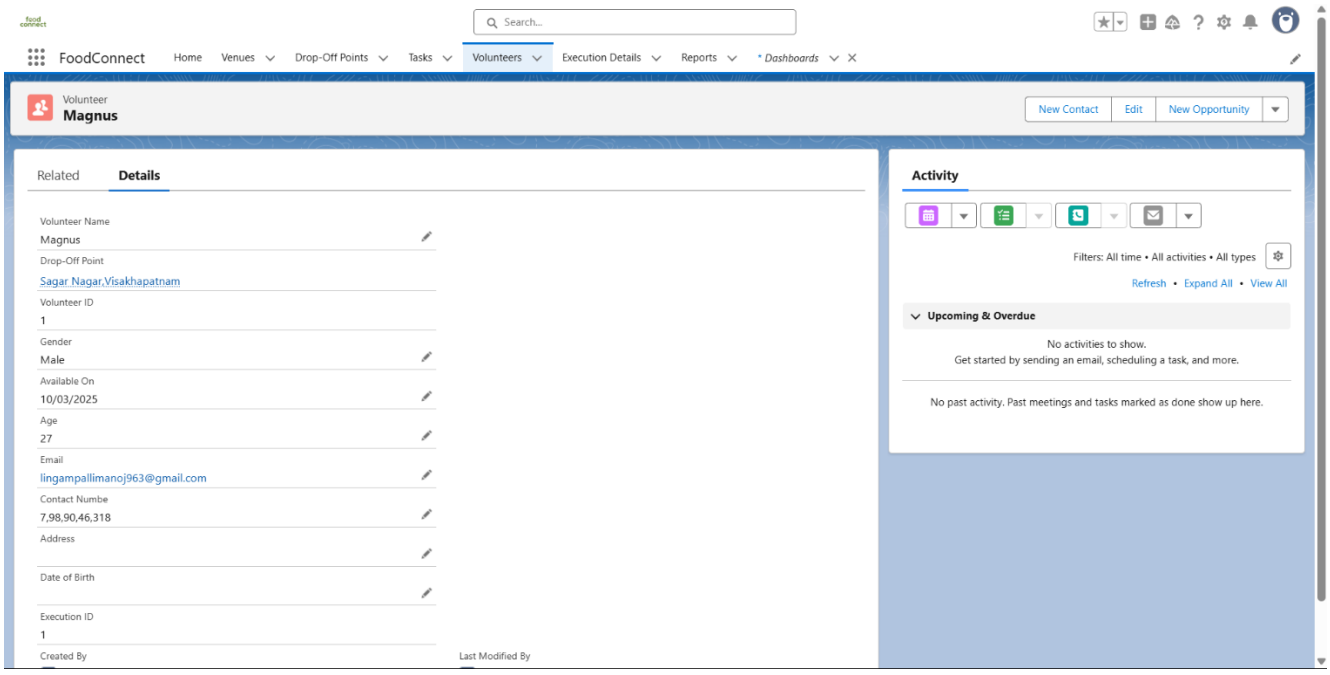
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Sagar Nagar,Visakhapatnam
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Available On
10/03/2025
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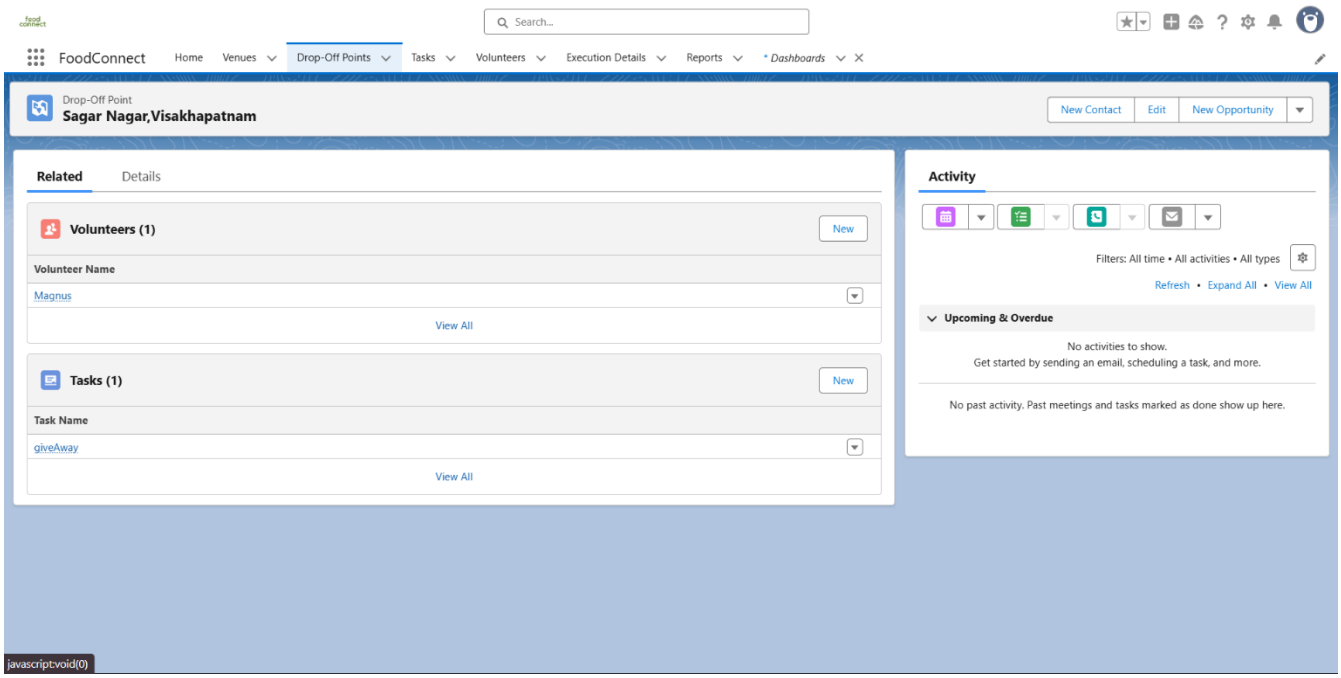
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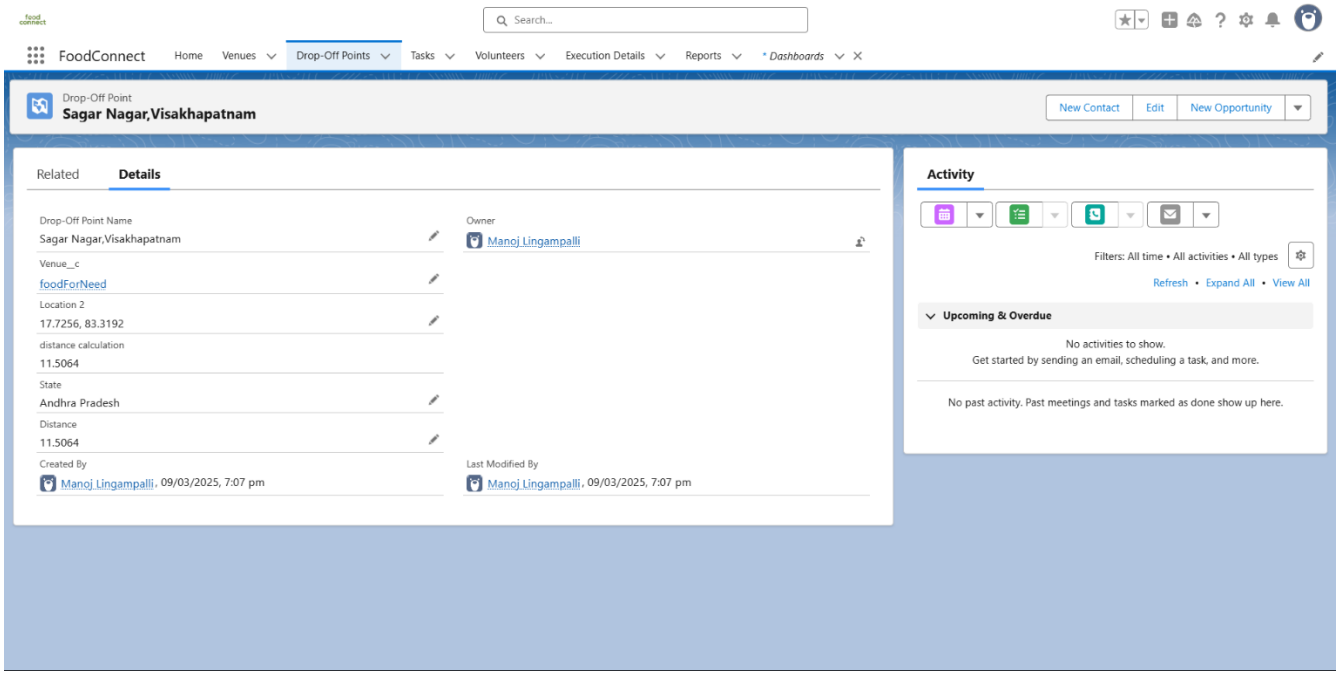
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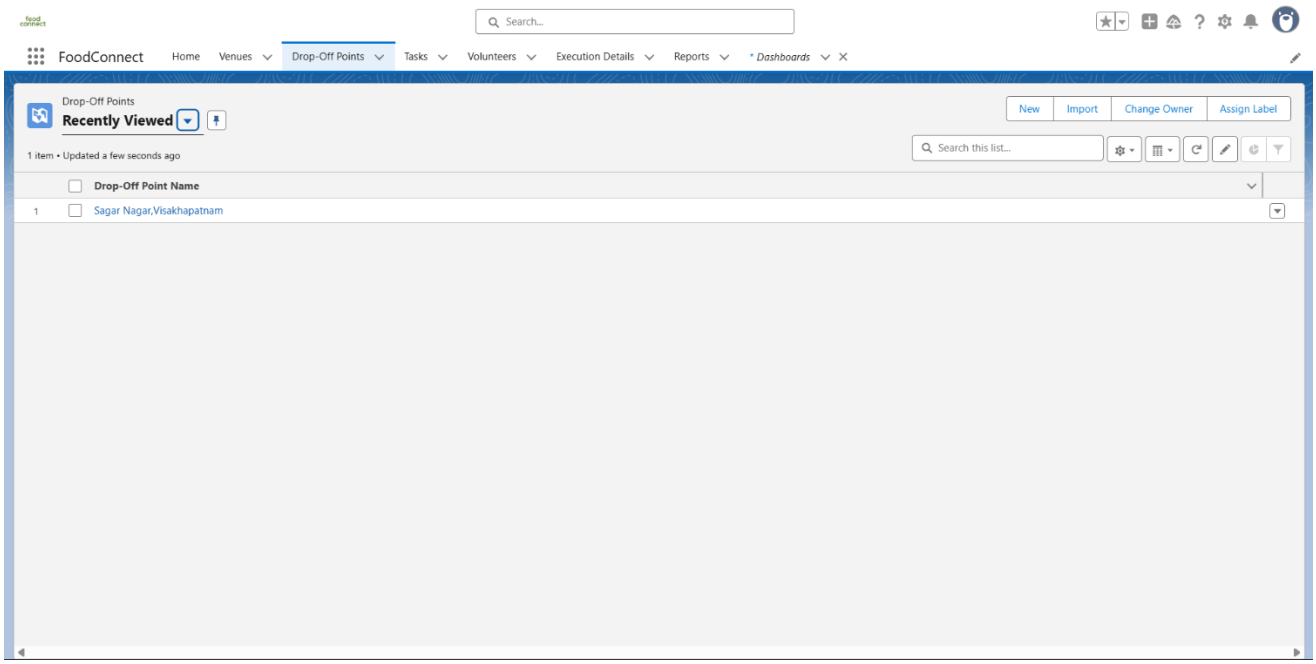
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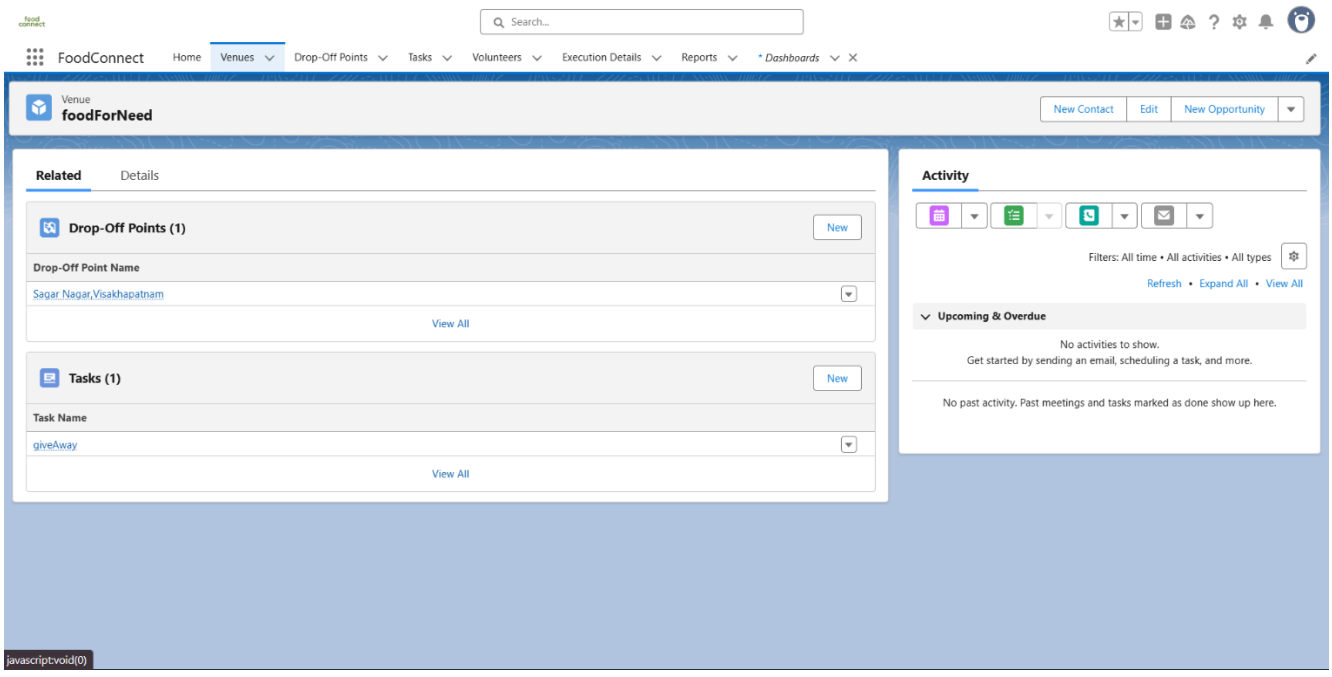
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New Opportunity
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Sagar Nagar,Visakhapatnam
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Task Name
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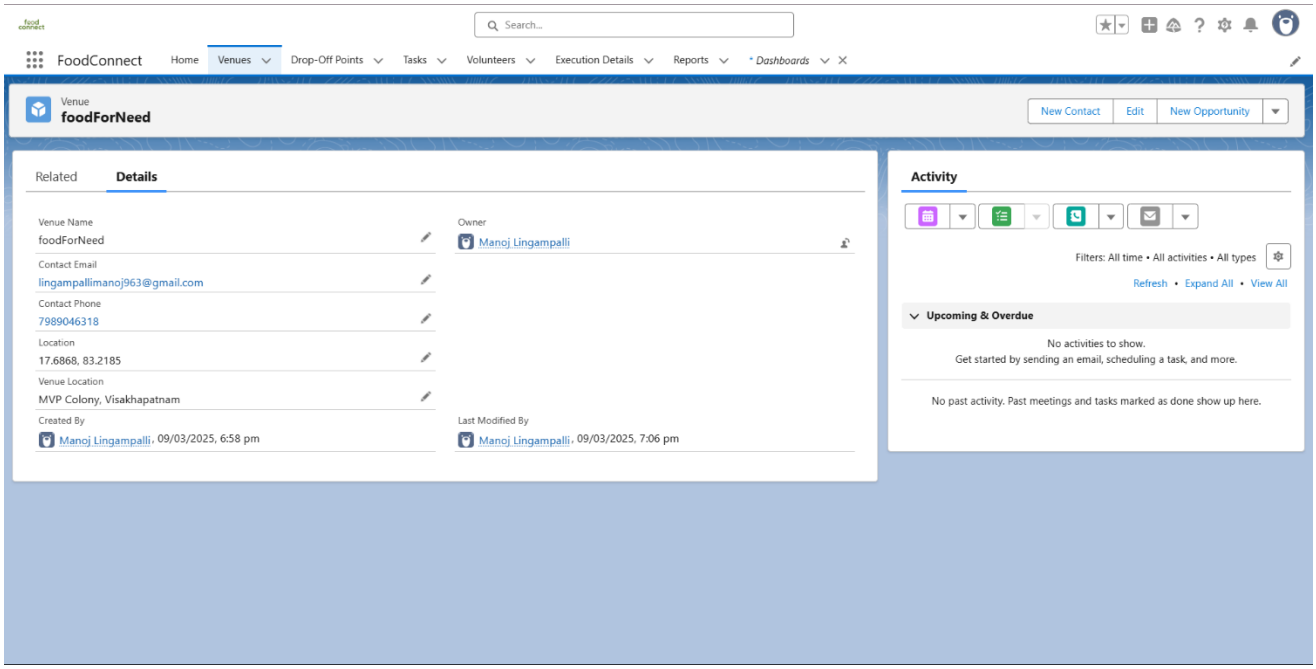
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* Dashboards
Venue
foodForNeed
New Contact
Edit
New Opportunity
Related
Details
Venue Name
foodForNeed
Owner
Manoj Lingampalli
Contact Email
lingampallimanoj963@gmail.com
Contact Phone
7989046318
Location
17.6868, 83.2185
Venue Location
MVP Colony, Visakhapatnam
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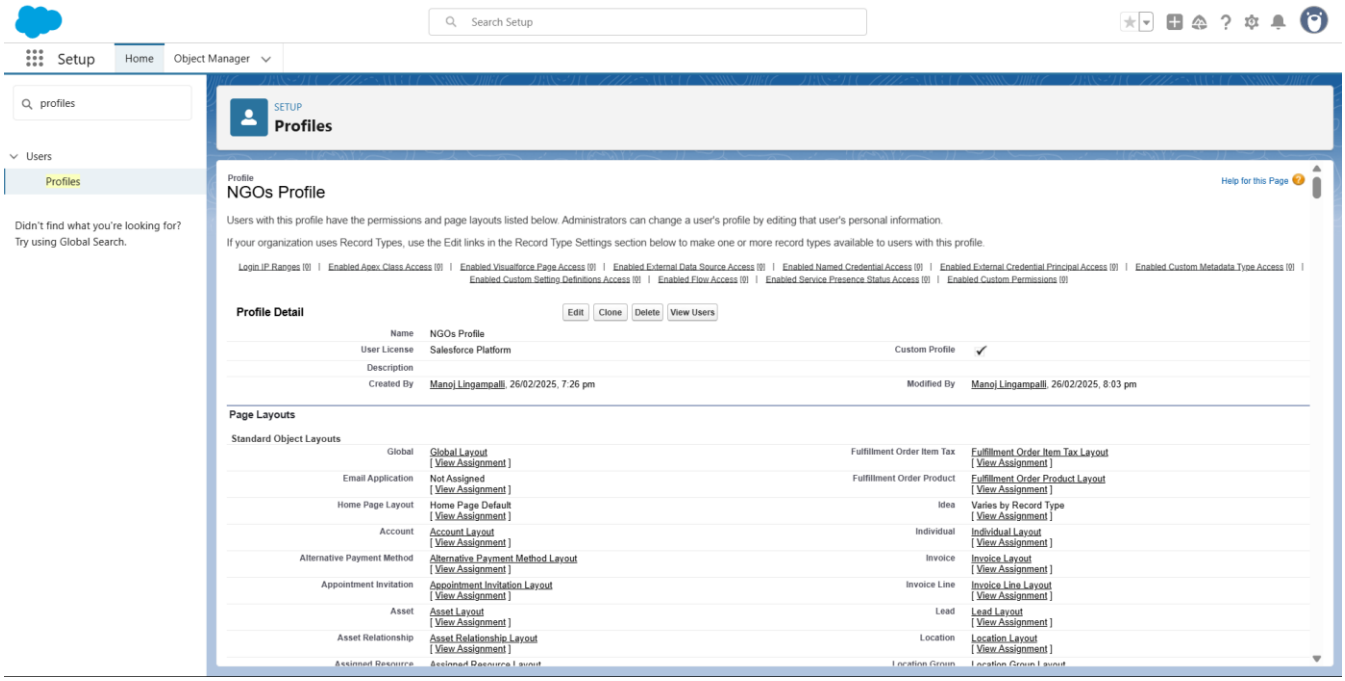
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Setup
Home
Object Manager
profiles
Users
Profiles
Didn't find what you're looking for?
Try using Global Search.
SETUP
Profiles
Profile
NGOs Profile
Help for this Page
Users with this profile have the permissions and page layouts listed below. Administrators can change a user's profile by editing that user's personal information.
If your organization uses Record Types, use the Edit links in the Record Type Settings section below to make one or more record types available to users with this profile.
Login IP Ranges [0] | Enabled Apex Class Access [0] | Enabled Visualforce Page Access [0] | Enabled External Data Source Access [0] | Enabled Named Credential Access [0] | Enabled External Credential Principal Access [0] | Enabled Custom Metadata Type Access [0] | Enabled Custom Setting Definitions Access [0] | Enabled Flow Access [0] | Enabled Service Presence Status Access [0] | Enabled Custom Permissions [0]
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NGOs Profile
User License
Salesforce Platform
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Email Application
Not Assigned [View Assignment]
Home Page Layout
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Individual Layout [View Assignment]
Invoice
Invoice Layout [View Assignment]
Invoice Line
Invoice Line Layout [View Assignment]
Lead
Lead Layout [View Assignment]
Location
Location Layout [View Assignment]

5. Testing and Validation

Unit Testing

- Apex classes and triggers were tested with **at least 95% code coverage**.
- Validation rules and workflows were assessed using test data to confirm accuracy.

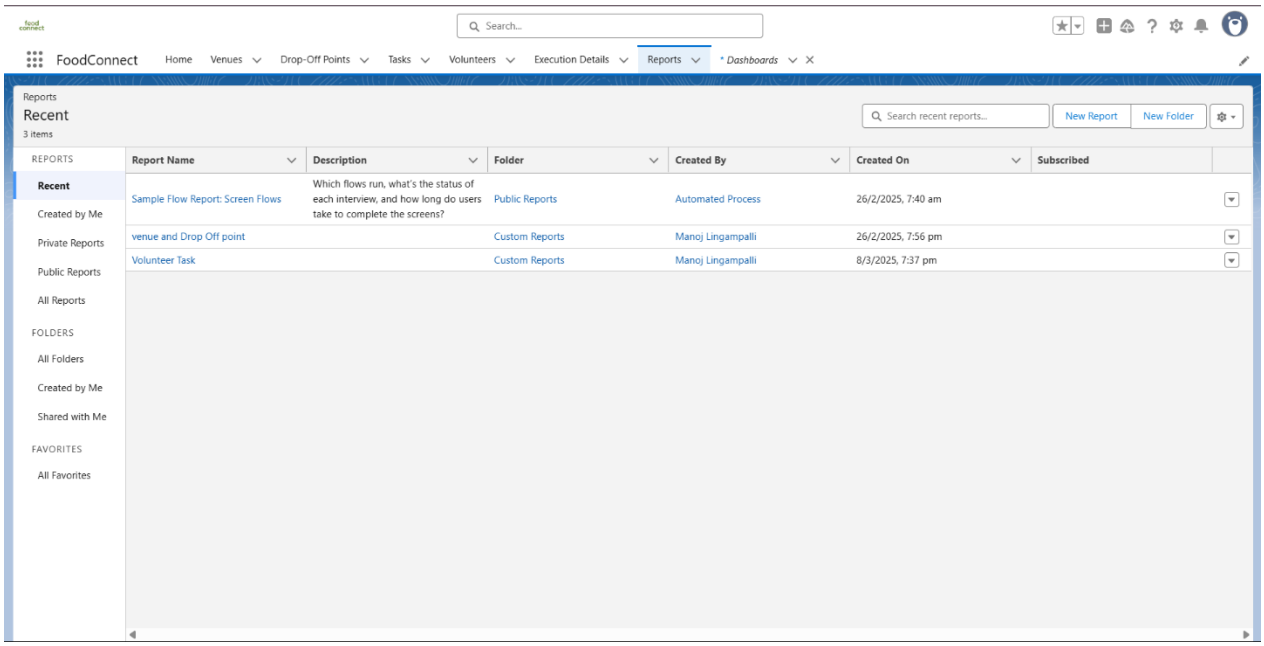
User Interface Testing

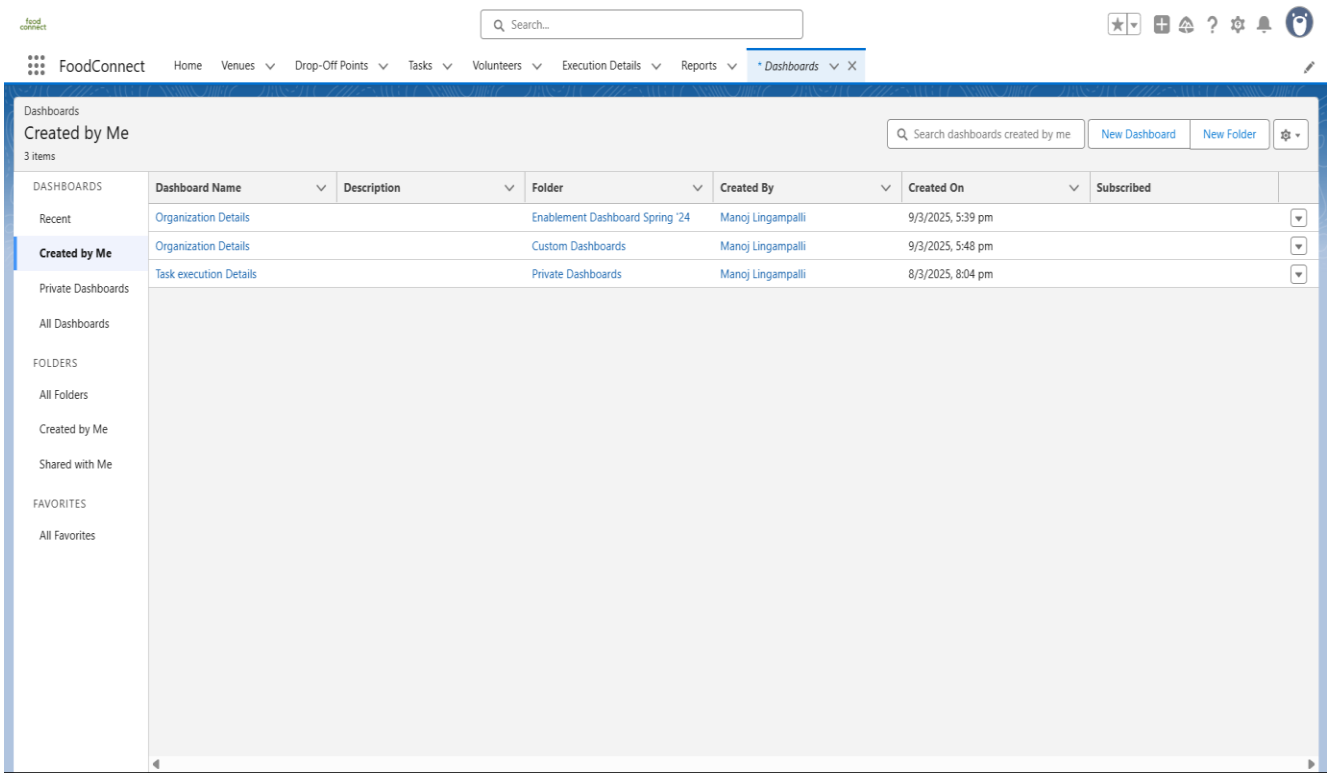
- Conducted **end-to-end testing** for donor, NGO, and volunteer portals.
- Ensured **mobile compatibility** for easy access.
- Tested usability with stakeholders for an intuitive user experience.

6. Key Use Cases Addressed by Salesforce

This section highlights how Salesforce supports various real-world scenarios during implementation.

- **Food Donation Management:** Donors log leftover food, and the system maintains real-time availability.
- **Pickup & Delivery Scheduling:** Volunteers receive **automated** assignments for pickups and drop-offs.
- **Transparency & Reporting:** NGOs get detailed reports on food distribution, and donors can track their contributions.
- **Scalability:** The platform accommodates multiple regions and expands as the initiative grows.
- **Quality Assurance:** Alerts notify administrators about **food nearing expiration**, ensuring timely distribution.




FoodConnect
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New Folder
DASHBOARDS
Recent
Created by Me
Private Dashboards
All Dashboards
FOLDERS
All Folders
Created by Me
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FAVORITES
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Dashboard Name
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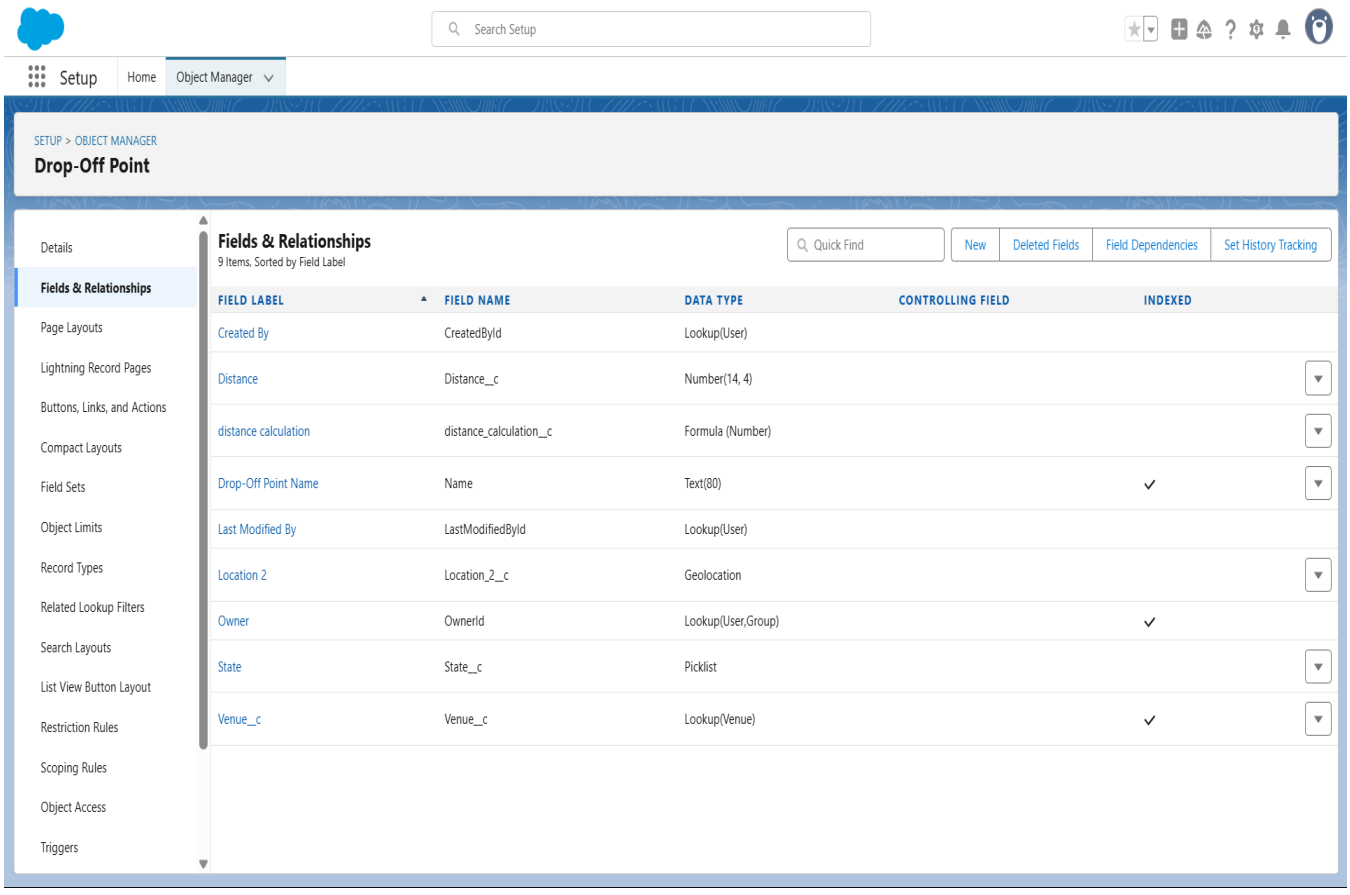
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SETUP > OBJECT MANAGER
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Lightning Record Pages
Buttons, Links, and Actions
Compact Layouts
Field Sets
Object Limits
Record Types
Related Lookup Filters
Search Layouts
List View Button Layout
Restriction Rules
Scoping Rules
Object Access
Triggers
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
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Created By
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Lookup(User)
Distance
Distance__c
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distance calculation
distance_calculation__c
Formula (Number)
Drop-Off Point Name
Name
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Location 2
Location_2__c
Geolocation
Owner
OwnerId
Lookup(User,Group)
State
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Venue__c
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7. Conclusion

The **"To Supply Leftover Food to the Poor"** project effectively addresses food waste and hunger through a **Salesforce-driven solution**.

Key achievements include:

- Development of a **transparent and efficient** food redistribution platform.
- **Empowering stakeholders** with real-time insights and optimized workflows.
- **Significant reduction in food waste** while making a meaningful impact on communities.

This project highlights how technology can be leveraged to solve social challenges and lays the groundwork for future growth and innovation.