

Project Title: To Supply Left Over Food To Poor

Category: Salesforce

Skills Required: Salesforce Developer

1. Project Overview

This project focuses on **connecting surplus food from donors to the underprivileged** through Salesforce technology. It aims to address the dual challenges of **food waste reduction** and **hunger alleviation**. By leveraging Salesforce CRM, automation tools, and community collaboration, the project provides a streamlined system for managing donations and ensuring food reaches those in need promptly. This initiative enhances sustainability, reduces environmental waste, and strengthens social equity by tackling hunger efficiently.

The screenshot displays a Salesforce Lightning page for 'FoodConnect'. The page title is 'Task Execution Details', and it shows the user is viewing as 'Pusarla Bhanu' on '21-Dec-2024, 8:54 pm'. The page layout includes a navigation bar with tabs for Home, Venues, Drop-Off Points, Tasks, Volunteers, Execution Details, Reports, and Dashboards. The main content area is divided into two columns. The left column contains a table titled 'venue and Drop Off point' with the following data:

Venue Name	Drop-Off point Name	Distance
Meet and eat	Yendada	2.2125k
RushiValley	Maddilapalem	0.0000
StoneWater	Madhurawada	0.0000

Below the table is a link to 'View Report (venue and Drop Off point)'. The right column contains a 'Venue Form' with input fields for Venue Name, Email (pre-filled with 'you@example.com'), Phone, Venue Location, Latitude, and Longitude. At the bottom of the page, there is a 'Volunteer Task' section.

2. Objectives

Business Goals:

- Minimize food waste by redistributing surplus food from businesses and events.
- Improve access to food for underprivileged individuals through organized logistics.
- Build a transparent and scalable network of donors and beneficiaries.

← → ↺ dns000008zypf2ay-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01INS0000022wOX/FieldsAndRelationships/view

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🔍 Search Setup

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Setup Home Object Manager ▾

SETUP > OBJECT MANAGER

Execution Detail

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

5 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)			
Execution Detail Name	Name	Text(80)		✓	▾
Last Modified By	LastModifiedById	Lookup(User)			
Task	Task__c	Master-Detail(Task)		✓	▾
Volunteer	Volunteer__c	Master-Detail(Volunteer)		✓	▾

Activate Windows
Go to Settings to activate Windows.

Screenshot of the Salesforce Setup interface showing the 'Venue' object configuration in the 'Fields & Relationships' section.

Fields & Relationships
8 Items, Sorted by Field Label

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Contact Email	Contact_Email__c	Email		<input type="checkbox"/>
Contact Phone	Contact_Phone__c	Phone		<input type="checkbox"/>
Created By	CreatedById	Lookup(User)		
Last Modified By	LastModifiedById	Lookup(User)		
Location	Location__c	Geolocation		<input type="checkbox"/>
Owner	OwnerId	Lookup(User,Group)		<input checked="" type="checkbox"/>
Venue Location	Venue_Location__c	Long Text Area(32768)		<input type="checkbox"/>
Venue Name	Name	Text(80)		<input type="checkbox"/>

Activate Windows
Go to Settings to activate Windows.

Specific Outcomes:

- Automated matching of food donors with beneficiaries in real time

Screenshot of the Salesforce Setup interface showing the 'Volunteer' object configuration in the 'Fields & Relationships' section.

Volunteer Custom Field
Contact Number
[Back to Volunteer](#)

Validation Rules (0)

Custom Field Definition Detail
[Edit](#) [Set Field-Level Security](#) [View Field Accessibility](#) [Where is this used?](#)

Field Information		Object Name	Data Type
Field Label	Contact Number	Volunteer	Number
Field Name	Contact_Number		
API Name	Contact_Number__c		
Description			
Help Text			
Data Owner			
Field Usage			
Data Sensitivity Level			
Compliance Categorization			
Created By	Pusaria Rhanu, 20/12/2024, 9:56 pm	Modified By	Pusaria Rhanu, 20/12/2024, 9:56 pm

General Options

Required	<input checked="" type="checkbox"/>
Unique	<input type="checkbox"/>
External ID	<input type="checkbox"/>
AI Prediction	<input type="checkbox"/>

Activate Windows
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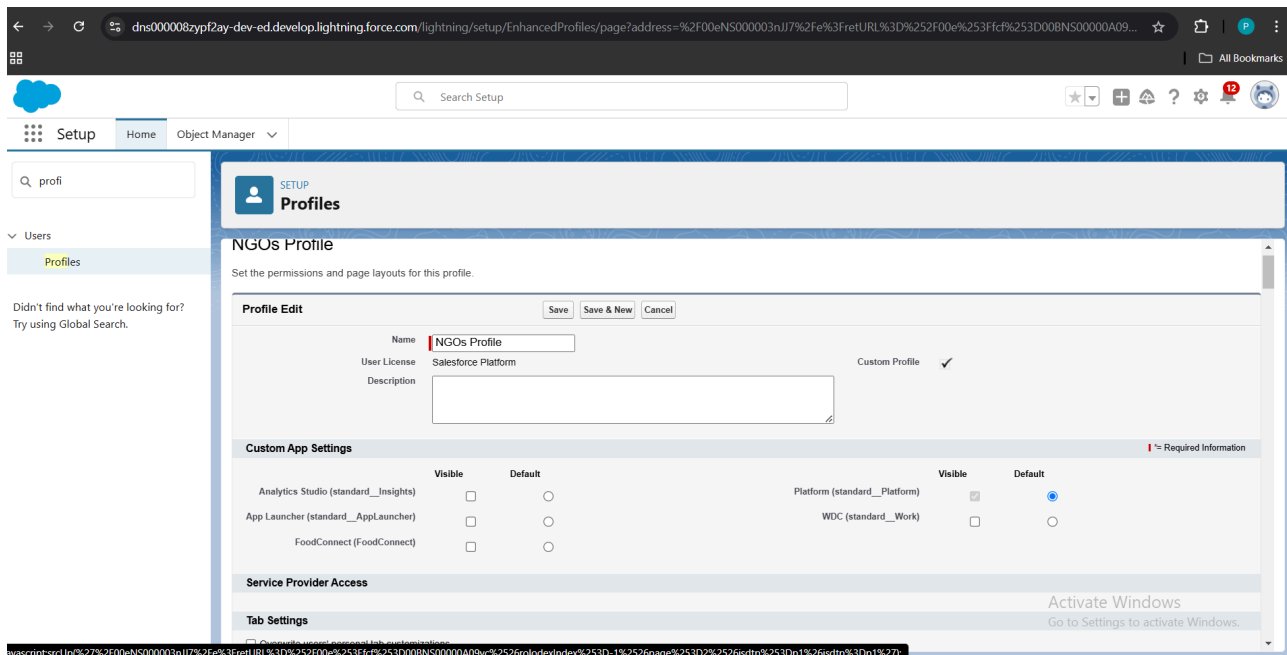
- Tracking of donations, ensuring quality and compliance with food safety standards.
- Analysis of food donation trends to optimize the process and maximize impact.

4. Salesforce Key Features and Concepts Utilized

Advanced Features:

1. Salesforce Flow:

- Automates workflows, such as matching donors to beneficiaries and sending alerts.



2. Einstein AI:

- Predicts food needs based on historical data and donation trends.

3. Community Cloud:

- Creates a centralized hub for donors, non-profits, and volunteers to interact.

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	Drop-Off Points	Apple	
Edit Del	Execution Details	White	
Edit Del	Tasks	Thermometer	
Edit Del	Venues	Globe	
Edit Del	Volunteers	IP Phone	

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

No Web Tabs have been defined

Visualforce Tabs [New](#) [What Is This?](#)

4. Integration with Mobile Apps:

- Simplifies user engagement by allowing real-time tracking and notifications on the go.

All Users

On this page you can create, view, and manage users.

To get more licenses, use the Your Account app. [Let's Go](#)

View: [All Users](#) | [Edit](#) | [Create New View](#)

[New User](#) [Reset Password\(s\)](#) [Add Multiple Users](#)

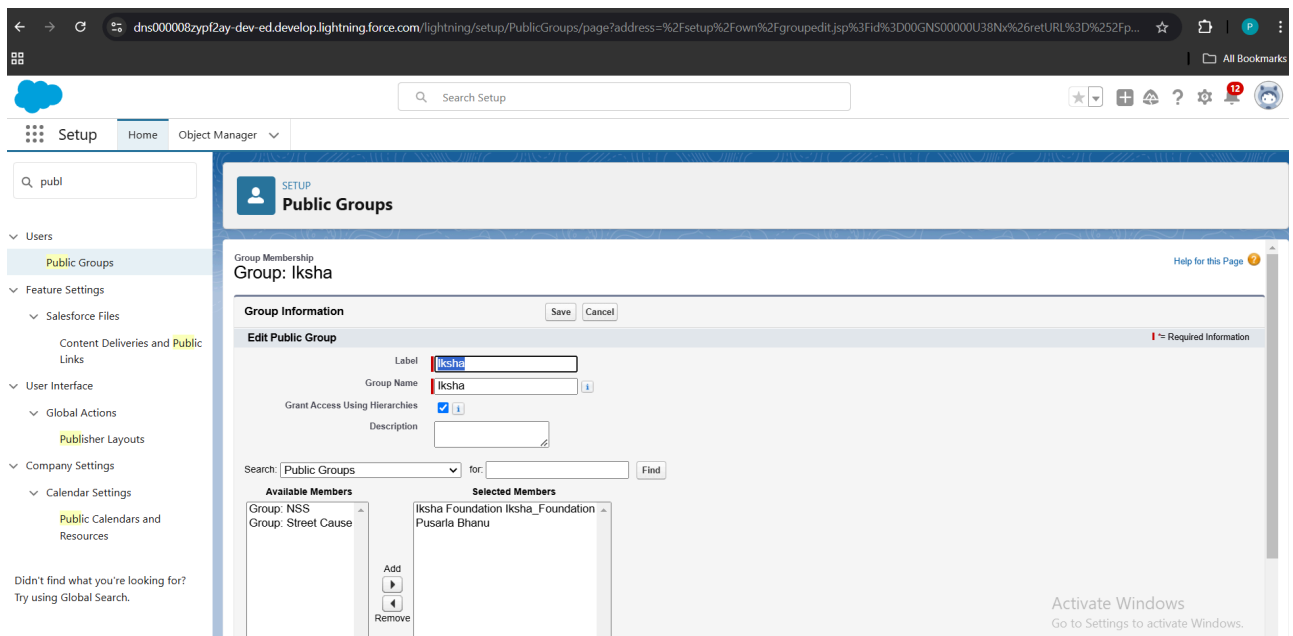
Action	Full Name	Alias	Username	Role	Active	Profile
Edit	Bhanu P. Saria	PBhan	bhanutejapusaria@gmail.com		✓	System Administrator
Edit	Chatter Expert	Chatter	chatty.00dns000008zypf2ay.n65n110u5c@chatter.salesforce.com		✓	Chatter Free User
Edit	Iksha Foundation	Iksh	bhanupusaria@07.com		✓	NGOs Profile
Edit	NSS	nss	nsss@132.com		✓	NGOs Profile
Edit	Street Cause	street	streetcause@33.com		✓	NGOs Profile
Edit	User Integration	integ	integration@00dns000008zypf2ay.com		✓	Analytics Cloud Integration User
Edit	User Security	sec	insightssecurity@00dns000008zypf2ay.com		✓	Analytics Cloud Security User

[New User](#) [Reset Password\(s\)](#) [Add Multiple Users](#)

5. Detailed Steps to Solution Design

Data Models:

- **Donor Data Model:** Includes fields for donor name, contact information, and available food items.
- **Beneficiary Data Model:** Captures the non-profit's requirements, capacity, and location.
- **Inventory Management:** Tracks food expiry, quantity, and type (e.g., perishable or non-perishable).



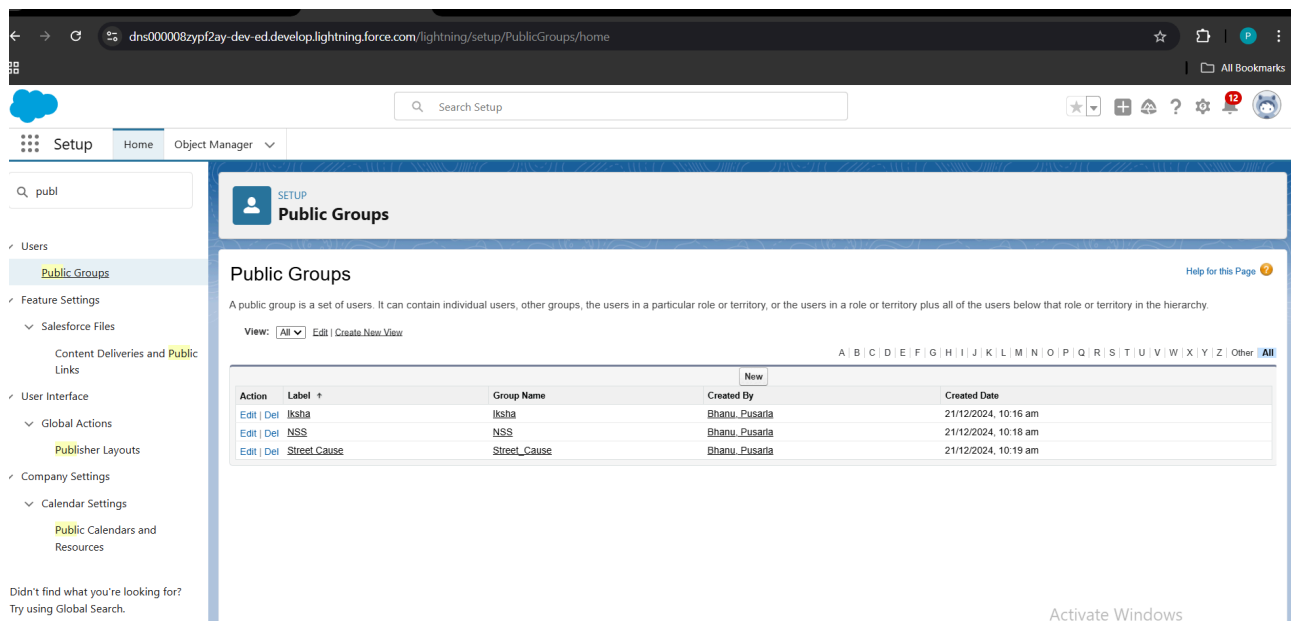
Workflow Automation:

Step 1: Donors log details of leftover food (e.g., 50 sandwiches, available for pickup by 7 PM).

Step 2: Salesforce Flow matches the logged food to nearby beneficiaries.

Step 3: Notifications are sent to beneficiaries and volunteers.

Step 4: Pickup and delivery statuses are updated in real time.



Design Enhancements:

- User Interface:
 - Donor View: A simplified interface to log food details in seconds. ○
 - Beneficiary View: A dashboard showing all available food donations nearby.

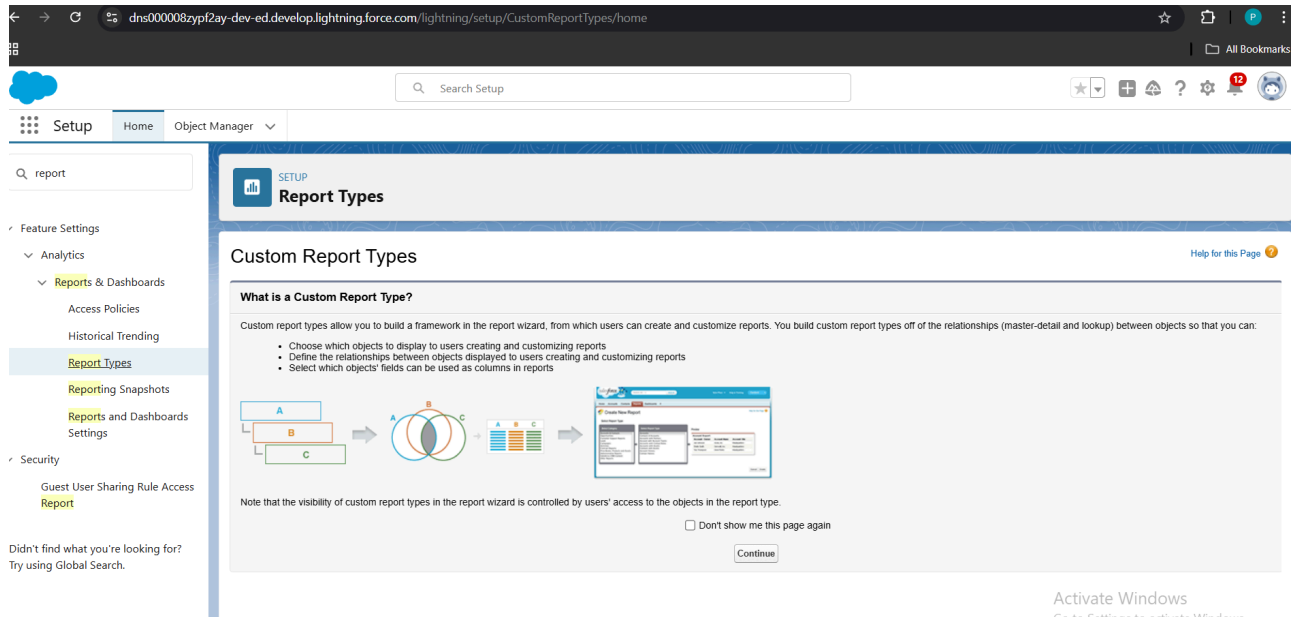
6. Testing and Validation

Testing Strategy:

1. Unit Testing:
 - Check that donor and beneficiary data sync correctly across all components.
 - Ensure automated triggers send accurate and timely notifications.

2.Integration Testing:

- Validate that mobile apps and external delivery systems (e.g., Google Maps) work seamlessly.



3.User Acceptance Testing (UAT):

- Conduct feedback sessions with donors, beneficiaries, and volunteers to identify usability improvements.

4.Load Testing:

- Simulate high-traffic scenarios to ensure the platform can handle scaling.

Validation Metrics:

- 1.Accuracy of food-matching algorithms.
- 2.Response time for real-time notifications.

3. User satisfaction scores for each stakeholder group.

The screenshot shows the Salesforce Setup interface for configuring Report Types. The left sidebar contains navigation links: Home, Object Manager, Reports & Dashboards, Access Policies, Historical Trending, Report Types (selected), Reporting Snapshots, Reports and Dashboards Settings, User Sharing Rule Access, and a search bar. The main content area is titled 'Report Types' and includes a 'Primary Object' dropdown set to 'venues'. The 'Identification' section contains fields for 'Report Type Label' (Venue with DropOff with Volunteer), 'Report Type Name' (Venue_with_DropOff_with_), 'Description' (Venue with DropOff with Volunteer), and 'Report Type Category' (Other Reports). The 'Deployment' section shows 'Deployment Status' with 'In Development' and 'Deployed' radio buttons, where 'Deployed' is selected. A note states: 'A report type with deployed status is available for use in the report wizard. While in development, report types are visible only to authorized administrators and their delegates.' The bottom right corner features an 'Activate Windows' watermark.

7. Key Scenarios Addressed by Salesforce in the Implementation

1. **Scenario 1:** Donor Availability

- A donor logs a large quantity of perishable food at the end of an event.

Salesforce immediately notifies nearby shelters, and a volunteer picks it up within an hour. 2.

Scenario 2: Beneficiary Shortage

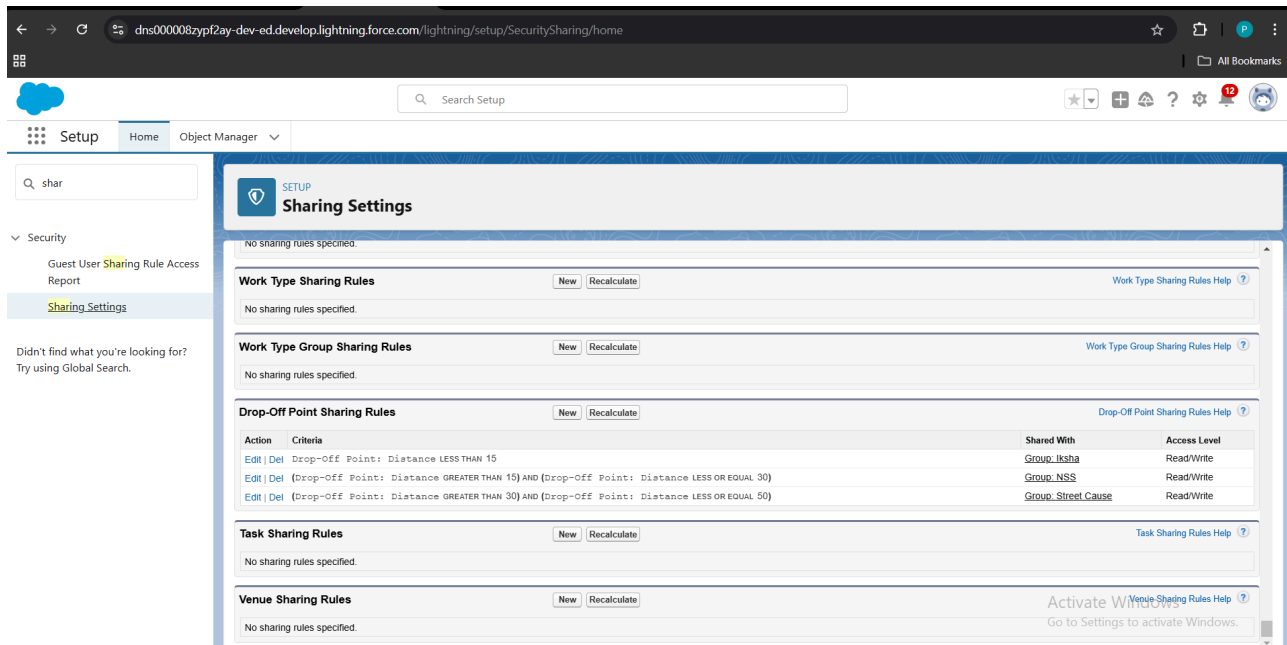
- A beneficiary logs a request for specific food items (e.g., vegetarian meals).

Salesforce uses its database to recommend donors with surplus matching the request.

3. **Scenario 3:** Volunteer Coordination

- Volunteers receive a real-time update when a new donation is logged. Route

optimization tools guide them to complete pickups efficiently.



4. Scenario 4: Reporting Impact

- Admins generate a report showing how many meals were provided, total donations, and environmental savings in a month.

8. Conclusion

Achievements:

- The project successfully leveraged Salesforce to reduce food waste and fight hunger.
- Automations improved efficiency, cutting down the time it takes to connect donors and beneficiaries.
- Insights and analytics enabled stakeholders to measure the social and environmental impact.

Vision for the Future:

- Expand the project to incorporate a global database of donors and beneficiaries.
- Integrate with AI-driven food quality assurance systems.
- Collaborate with government and international organizations to increase scale and impact.