



## **Food Connect Project**

### **To Supply Leftover Food to Poor**

#### **1. Project Overview**

This project is centered on addressing the issue of food wastage and hunger through a solution titled “Redistributing Leftover Food to the Needy.” The initiative aims to provide an effective approach by utilizing Salesforce Nonprofit Cloud, Service Cloud, and Einstein Analytics. The project seeks to optimize food redistribution processes, enhance operational transparency, and promote community participation, ultimately contributing to the broader objectives of reducing food insecurity and cutting down on food waste.

#### **2. Objectives**

##### **Business Goals**

- Reduce food wastage by redistributing surplus food to individuals in need.
- Establish a clear, traceable process for food donations.
- Provide donors, NGOs, and volunteers with an intuitive and efficient digital platform.

##### **Specific Outcomes**

- Create a Salesforce-powered platform for monitoring and managing food donations.
- Implement real-time tools for managing inventory and coordinating food pickup and delivery logistics.
- Develop analytical dashboards to evaluate the project's impact and improve operational efficiency.

#### **3. Salesforce Key Features and Concepts Utilized**

- **Salesforce Nonprofit Cloud:** Facilitates collaboration with NGOs and tracks food requests efficiently.
- **Service Cloud:** Manages inquiries from donors and volunteers.
- **Einstein Analytics:** Delivers actionable insights via interactive dashboards and reports.

##### **Custom Objects**

- **Food Donations:** Maintains records of food donation details.



- **Pickup Schedules:** Organizes and monitors logistics for food collection and delivery.
- **Distribution:** Tracks the delivery of food to NGOs and end recipients.

#### Automations

- **Email/SMS Notifications:** Sends alerts for donation confirmations and task updates.
- **Workflow Rules:** Automatically assigns volunteers to manage food pickups.

#### 4. Detailed Steps to Solution Design

##### Data Models

- **Entities:**
  - **Donor:** Captures information about donors.
  - **Food Donation:** Logs details of donated food, including quantities.
  - **NGO:** Maintains information about charitable organizations.
  - **Volunteer:** Tracks tasks allocated to volunteers.
  - **Distribution:** Documents the status of food deliveries.

##### User Interface Designs

- **Donor Portal:** A user-friendly platform for submitting food donation entries.
- **Volunteer Dashboard:** Displays an overview of assigned tasks, including those pending and completed.
- **NGO Management Panel:** Provides NGOs with a tool to view food availability and submit donation requests.

##### Business Logic

- **Triggers:** Apex triggers that automatically allocate logistics resources for food donations.
- **Validation Rules:** Safeguards the accuracy of donation data, such as ensuring food expiry dates are valid.
- **Scheduled Jobs:** Periodically removes records of expired food donations.



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Commerce Setup Assistant

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Lightning App Builder

The Lightning App Builder provides an easy to use graphical interface for creating custom Lightning pages for Salesforce Lightning Experience and mobile app. Lightning pages are built using Lightning components—compact, configurable, and reusable elements that you can drag and drop into regions of the page in the Lightning App Builder.

View: All 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

Lightning Pages

New

Action	Label +	Name	Namespace Prefix	Description	Type	Created By	Last Modified By
Edit   Clone   Del	HOME_Page	HOME_Page			Home Page	KSowm 05/01/2025, 3:42 pm	KSowm 05/01/2025, 3:42 pm

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

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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

Public Groups

New

Action	Label +	Group Name	Created By	Created Date
Edit   Del	Ishta	Ishta	Sowmya_Kotukuri	03/01/2025, 6:34 pm
Edit   Del	NSS	NSS	Sowmya_Kotukuri	03/01/2025, 6:35 pm
Edit   Del	Street_Cause	Street_Cause	Sowmya_Kotukuri	03/01/2025, 6:36 pm

Public Groups -- Salesforce - Developer Edition



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**Volunteer**

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### Fields & Relationships

14 Items. Sorted by Field Label

Quick Find

[New](#) | 
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FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Address	Address__c	Long Text Area(32768)		<input type="checkbox"/>
Age	Age_c	Number(18, 0)		<input type="checkbox"/>
Available On	Available_On_c	Date		<input type="checkbox"/>
Contact Number	Contact_Number__c	Number(18, 0)		<input type="checkbox"/>
Created By	CreatedById	Lookup(User)		<input type="checkbox"/>
Date of Birth	Date_of_Birth_c	Date		<input type="checkbox"/>
Drop-Off Point	Drop_Off_Point__c	Master-Detail(Drop-Off Point)		<input checked="" type="checkbox"/>
Email	Email_c	Email		<input type="checkbox"/>
Execution ID	Execution_ID__c	Auto Number		<input type="checkbox"/>
Gender	Gender_c	Picklist		<input type="checkbox"/>

Details	<b>Fields &amp; Relationships</b> 16 Items. Sorted by Field Label				
<b>Fields &amp; Relationships</b>	<input type="text" value="Quick Find"/> <a href="#">New</a> <a href="#">Deleted Fields</a> <a href="#">Field Dependencies</a> <a href="#">Set History Tracking</a>				
Page Layouts	<b>FIELD LABEL</b>	<b>FIELD NAME</b>	<b>DATA TYPE</b>	<b>CONTROLLING FIELD</b>	<b>INDEXED</b>
Lightning Record Pages	Created By	CreatedById	Lookup(User)		
Buttons, Links, and Actions	Date	Date_c	Date		
Compact Layouts	Distance	Distance_c	Number(14, 4)		
Field Sets	Drop-Off Point	Drop_Off_Point_c	Lookup(Drop-Off Point)		✓
Object Limits	Feedback	Feedback_c	Long Text Area(32768)		
Record Types	Food Category	Food_Category_c	Picklist (Multi-Select)		
Related Lookup Filters	Last Modified By	LastModifiedById	Lookup(User)		
Search Layouts	Name of the Person	Name_of_the_Person_c	Text(10)		
List View Button Layout	Number of People Served	Number_of_People_Served_c	Number(18, 0)		
Restriction Rules	Owner	OwnerId	Lookup(User,Group)		✓
Scoping Rules					
Object Access					

Details	<b>Fields &amp; Relationships</b> 8 Items. Sorted by Field Label				
<b>Fields &amp; Relationships</b>	<input type="text" value="Quick Find"/> <a href="#">New</a> <a href="#">Deleted Fields</a> <a href="#">Field Dependencies</a> <a href="#">Set History Tracking</a>				
Page Layouts	<b>FIELD LABEL</b>	<b>FIELD NAME</b>	<b>DATA TYPE</b>	<b>CONTROLLING FIELD</b>	<b>INDEXED</b>
Lightning Record Pages	Contact Email	ContactEmail_c	Email		
Buttons, Links, and Actions	Contact Phone	ContactPhone_c	Phone		
Compact Layouts	Created By	CreatedById	Lookup(User)		
Field Sets	Last Modified By	LastModifiedById	Lookup(User)		
Object Limits	Location	Location_c	Geolocation		
Record Types	Owner	OwnerId	Lookup(User,Group)		✓
Related Lookup Filters	Venue Location	Venue_Location_c	Long Text Area(32768)		
Search Layouts	Venue Name	Name	Text(80)		✓
List View Button Layout					
Restriction Rules					
Scoping Rules					
Object Access					



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FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedBy	Lookup(User)		
Distance	Distance_c	Number(18, 0)		
distance calculation	distance_calculation_c	Formula (Number)		
Drop-Off Point Name	Name	Text(80)		✓
Last Modified By	LastModifiedBy	Lookup(User)		
Location 2	Location_2_c	Geolocation		
Owner	OwnerId	Lookup(User,Group)		✓
State	State_c	Picklist		
Venue_c	Venue_c	Lookup(Venue)		✓

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5 Items, Sorted by Field Label

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FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedBy	Lookup(User)		
Execution Detail Name	Name	Text(80)		✓
Last Modified By	LastModifiedBy	Lookup(User)		
Task	Task_c	Master-Detail(Task)		✓
Volunteer	Volunteer_c	Master-Detail(Volunteer)		✓



FoodConnect

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Reports

Recent


3 items

New Report

New Folder

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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	2/1/2025, 8:15 pm	⌵
Created by Me	venue and Drop Off point		Custom Reports	Kolukuluri Sowmya	5/1/2025, 12:05 pm	⌵
Private Reports	Volunteer Task		Custom Reports	Kolukuluri Sowmya	5/1/2025, 1:25 pm	⌵
Public Reports						
All Reports						
FOLDERS						
All Folders						
Created by Me						
Shared with Me						
FAVORITES						
All Favorites						



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Dashboards

Recent

2 items

New Dashboard

New Folder

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DASHBOARDS	Dashboard Name	Description	Folder	Created By	Created On	Subscribed
Recent	Copy of Organization Details		Custom Dashboards	Kolukuluri Sowmya	5/1/2025, 3:03 pm	⌵
Created by Me	Organization Details		Private Dashboards	Kolukuluri Sowmya	5/1/2025, 1:29 pm	⌵
Private Dashboards						
All Dashboards						
FOLDERS						
All Folders						
Created by Me						
Shared with Me						
FAVORITES						
All Favorites						

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.

## 7. Conclusion

The “Redistributing Leftover Food to the Needy” project effectively tackles the intertwined issues of food waste and hunger through a Salesforce-driven solution.

### Key Achievements:

- Creation of a transparent and efficient platform for food redistribution.
- Empowerment of all stakeholders through real-time data insights and optimized workflows.
- Notable reduction in food wastage, contributing positively to underserved communities.

This initiative highlights how technology can address pressing social issues and sets the stage for further growth and innovative advancements in the future.



