

To Supply Leftover Food to Poor

1. Project Overview

This project, "FoodConnect," is designed to address the challenge of food waste in the food service industry and food insecurity in the community. The goal is to develop a Salesforce-based platform that facilitates the efficient donation of leftover food from restaurants, catering companies, and other food businesses to local charities and shelters. This project aims to reduce food waste, provide meals to those in need, and improve the efficiency of food donation logistics, supporting the organization's mission of community support and sustainability.

2. Objectives

- **Business Goals (for the organization managing the platform):**
 - Increase the number of participating food donors by 50% within the first year.
 - Increase the volume of food donated by 75% within the first year.
 - Establish partnerships with at least 10 local charities/shelters within the first six months.
- **Specific Outcomes:**
 - Implementation of a Salesforce-based platform for managing food donations.
 - Development of a mobile app (or integration with a third-party app) for real-time donation updates.
 - Creation of reports and dashboards to track donation metrics and impact.
 - Training for food donors and recipient organizations on using the platform.

3. Salesforce Key Features and Concepts Utilized

- **Custom Objects:**
 - "Food Donors" (Restaurants, Caterers, etc.)
 - "Recipient Organizations" (Shelters, Food Banks, etc.)
 - "Donations" (Tracking specific food donations, including type, quantity, pickup time, etc.)
- **Relationships:** Establishing relationships between Donors, Recipients, and

Donations.

- **Geolocation:** Using Salesforce Maps or a similar feature to manage pickup locations and optimize routes.
- **Reports and Dashboards:** Tracking key metrics such as total food donated, number of meals provided, and participation rates.
- **Communities (Optional):** Creating a portal for donors and recipients to interact and manage donations.
- **Mobile SDK or Third-Party App Integration:** Enabling real-time updates and notifications for donations.

4. Detailed Steps to Solution Design

(Remember to include screenshots in a real document.)

- **Data Model:**
 - "Food Donors" object: Fields for business name, address, contact information, food types offered, pickup availability.
 - "Recipient Organizations" object: Fields for organization name, address, contact information, capacity, accepted food types, pickup availability.
 - "Donations" object: Fields for donation date/time, food type, quantity, pickup location, donor, recipient, status (e.g., "Pending Pickup," "Picked Up," "Delivered").
- **User Interface Design:**
 - Custom page layouts for each object to display relevant information clearly.
 - Use of Lightning App Builder to create a dedicated app for donation management.
 - Example: A screenshot of the "Donation" page layout showing fields like "Food Type," "Quantity," "Pickup Time," "Donor," "Recipient," and "Status."
- **Business Logic:**
 - Workflow Rule: When a new donation is created, an email notification is sent to the recipient organization.
 - Process Builder: When a donation's status is changed to "Picked Up," a notification is sent to the platform administrators.
 - Example: A screenshot of a Process Builder configuration for donation status updates.

FoodConnect

Home

Venues

Drop-Off Points

Tasks

Volunteers

Execution Details

Reports

Search

Task Execution Details

Open

Refresh

Subscribe

venue and Drop-Off point


To view this table, refresh the dashboard.

View Report

Volunteer Task

We can't draw this chart because there is no data.

View Report (Volunteer Task)



Venue Form

Virtual Name

email

password

Phone

Virtual Location

Latitude

Longitude

Save

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Edit Custom Object

Drop-Off Point

Custom Object Definition Edit

Save

Save & New

Cancel

Required Information

The singular and plural labels are used in tabs, page layouts, and reports. Be careful when changing the name or label as it may affect existing integrations and merge templates.

Label

Drop-Off Point

Example: Account

Plural Label

Drop-Off Points

Example: Accounts

Starts with vowel sound

The Object Name is used when referencing the object via the API.

Object Name

Drop-Off_Point

Example: Account

Description

Context Sensitive Help Setting

Open the standard Salesforce.com Help & Training window

Open a window using a Visualforce page

Content Name

None

Enter Record Name Label and Format

The Record Name appears in page layouts, key lists, related lists, lookups, and search results. For example, the Record Name for Account is "Account Name" and for Case it is "Case Number". Note that the Record Name field is always called "Name" when referenced via the API.

Record Name

Drop-Off Point Name

Example: Account Name

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Custom Object Information

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Label

Execution Detail

Example: Account

Plural Label

Execution Details

Example: Accounts

Starts with vowel sound

☐

The Object Name is used when referencing the object via the API.

Object Name

Execution_Detail

Example: Account

Description

Context-Sensitive Help Setting

☒ Open the standard Salesforce.com Help & Training window

☐ Open a window using a Visualforce page

Content Name

--None--

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Record Name

Execution Detail Name

Example: Account Name

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Record Name

Execution Detail Name

Example: Account Name

Q tabs

User Interface

Rename Tabs and Labels

Tabs

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

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

NewWhat Is This?

Action	Label	Tab Style	Description
Edit Del	Dance-Off Points	Dance	
Edit Del	Execution Details	Dance	
Edit Del	Tasks	Apple	
Edit Del	Venues	Airplane	
Edit Del	Volunteers	Alarm clock	

Web Tabs

NewWhat Is This?

No Web Tabs have been defined

Visualforce Tabs

NewWhat Is This?

No Visualforce Tabs have been defined

Lightning Component Tabs

NewWhat Is This?

No Lightning component tabs have been defined

New Lightning App

App Details & Branding

Give your Lightning app a name and description. Upload an image and choose the highlight color for its navigation bar.

App Details

*App Name ⓘ

FoodConnect

*Developer Name ⓘ

FoodConnect

Description ⓘ

Enter a description...

App Branding

Image ⓘ

Upload

Primary Color Hex

Value ⓘ

#0070D2

Org Theme Options

☐ Use the app's image and color instead of the org's custom theme

App Launcher Preview

Next

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External Lookup Relationship

Creates a relationship that links one object to an external object whose data is stored outside the Salesforce org.

☐ Checkbox

Allows users to select a True (checked) or False (unchecked) value.

☐ Currency

Allows users to enter a dollar or other currency amount and automatically formats the field as a currency amount. This can be useful if you export data to Excel or another spreadsheet.

☐ Date

Allows users to enter a date or pick a date from a popup calendar.

☐ Date/Time

Allows users to enter a date and time, or pick a date from a popup calendar. When users click a date in the pop-up, that date and the current time are entered into the Date/Time field.

☒ Email

Allows users to enter an email address, which is validated to ensure proper format. If this field is specified for a contact or lead, users can choose the address when clicking Send an Email. Note that custom email addresses cannot be used for mass emails.

☐ Geolocation

Allows users to define locations. Includes latitude and longitude components, and can be used to calculate distance.

☐ Number

Allows users to enter any number. Leading zeros are removed.

☐ Percent

Allows users to enter a percentage number, for example, "10" and automatically adds the percent sign to the number.

☐ Phone

Allows users to enter any phone number. Automatically formats it as a phone number.

☐ Picklist

Allows users to select a value from a list you define.

☐ Text

Allows users to select multiple values from a list you define.

☐ Text Area

Allows users to enter any combination of letters and numbers.

☐ Text Area (Long)

Allows users to enter up to 255 characters on separate lines.

☐ Text Area (Rich)

Allows users to enter up to 131,072 characters on separate lines.

☐ Text (Encrypted) ⓘ

Allows users to enter formatted text, add images and links. Up to 131,072 characters on separate lines.

☐ Time

Allows users to enter any combination of letters and numbers and store them in encrypted form.

☐ URL


Allows users to enter a local time. For example, "2:40 PM", "14:40", "14:40:00", and "14:40:50.600" are all valid times for this field.

☐ URL

Allows users to enter any valid website address. When users click on the field, the URL will open in a separate browser window.

Next

Cancel









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☐ Roll-Up Summary

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☐ Lookup Relationship

Creates a relationship that links this object to another object. The relationship field allows users to click on a lookup icon to select a value from a popup list. The other object is the source of the values in the list.

☐ Master Detail Relationship

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- When a user deletes the master record, all detail records are deleted.
- You can create rollout summary fields on the master record to summarize the detail records.

 The relationship field allows users to click on a lookup icon to select a value from a popup list. The master object is the source of the values in the list.

☐ External Lookup Relationship

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☐ Picklist

Allows users to select a value from a list you define.

☐ Picklist (Multi-Select)

Allows users to select multiple values from a list you define.

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Allows users to enter any combination of letters and numbers.

☐ Text Area

Allows users to enter up to 255 characters on separate lines.

☐ Text Area (Rich Text)

Allows users to enter up to 131,072 characters on separate lines.

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☐ External Lookup Relationship

Created if relationship that links one object to another that is located outside the database or up

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Allows users to enter any valid website address. When users click on the field, the URL will open in a separate browser window.

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Specify the type of information that the custom field will contain.

Data Type

None Selected

Select one of the data types below.

Auto Number

A system-generated sequence number that uses a display format you define. The number is automatically incremented for each new record.

Formula

A read-only field that derives its value from a formula expression you define. The formula field is updated when any of the source fields change.

Roll-Up Summary

A read-only field that displays the sum, minimum, or maximum value of a field in a related list or the record count of all records listed in a related list.

Lookup Relationship

Creates a relationship that links this object to another object. The relationship field allows users to click on a lookup icon to select a value from a popup list. The other object is the source of the values in the list.

Master-Detail Relationship

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The relationship field allows users to click on a lookup icon to select a value from a popup list. The master object is the source of the values in the list.

External Lookup Relationship

Creates a relationship that links this object to an external object whose data is stored outside the Salesforce org.

Checkbox

Allows users to select a True (checked) or False (unchecked) value.

Currency

Allows users to enter a dollar or other currency amount and automatically formats the field as a currency amount. This can be useful if you export data to Excel or another spreadsheet.

Date

Allows users to enter a date or pick a date from a popup calendar.

Date/Time

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☐ Formula

☐ Roll-Up Summary

☐ Lookup Relationship

☐ Master-Detail Relationship

☐ External Lookup Relationship

☐ Checkbox

☐ Currency

☒ Date

☐ Date/Time

☐ Email

☐ Geolocation

☐ Number

☐ Percent

☐ Phone

☐ Picklist

☐ Picklist (Multi-Select)

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Allows users to enter up to 255 characters on separate lines.

Flow Builder

Select Type

Recommended

Screen Flow
Guides users through a business process that's launched from Lightning pages, Experience Cloud sites, quick actions, and more.

Record-Triggered Flow
Launches when a record is created, updated, or deleted. This autolaunched flow runs in the background.

Schedule-Triggered Flow
Launches at a specified time and frequency for each record in a batch. This autolaunched flow runs in the background.

Platform Event—Triggered Flow
Launches when a platform event message is received. This autolaunched flow runs in the background.

Autolaunched Flow (No Trigger)
Launches when invoked by Apex, processes, REST API, and more. This autolaunched flow runs in the background.

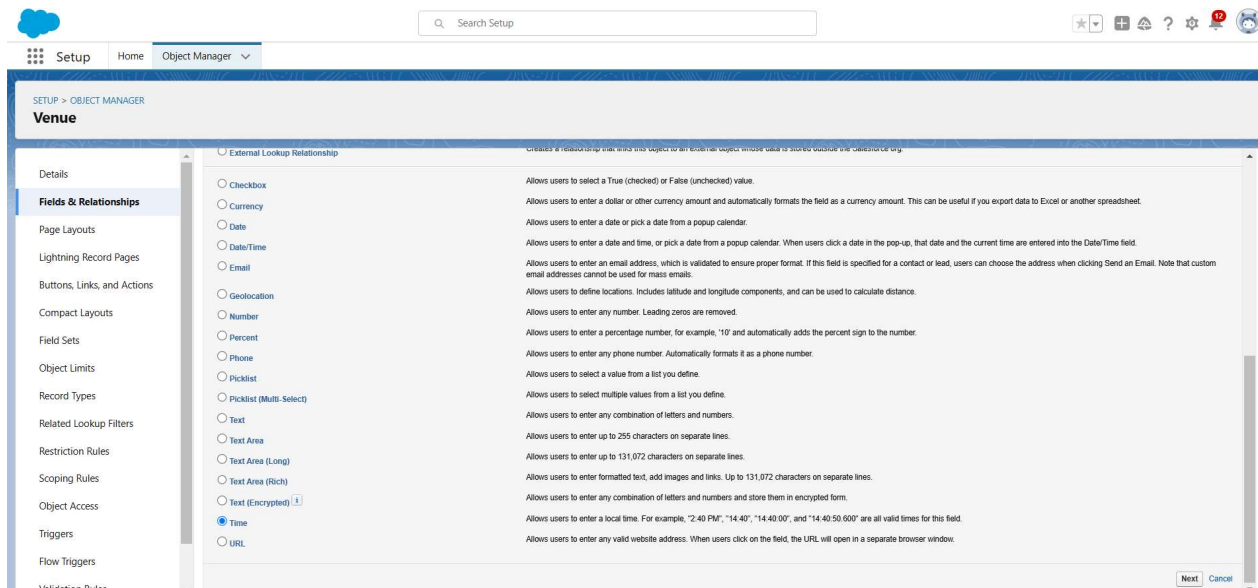
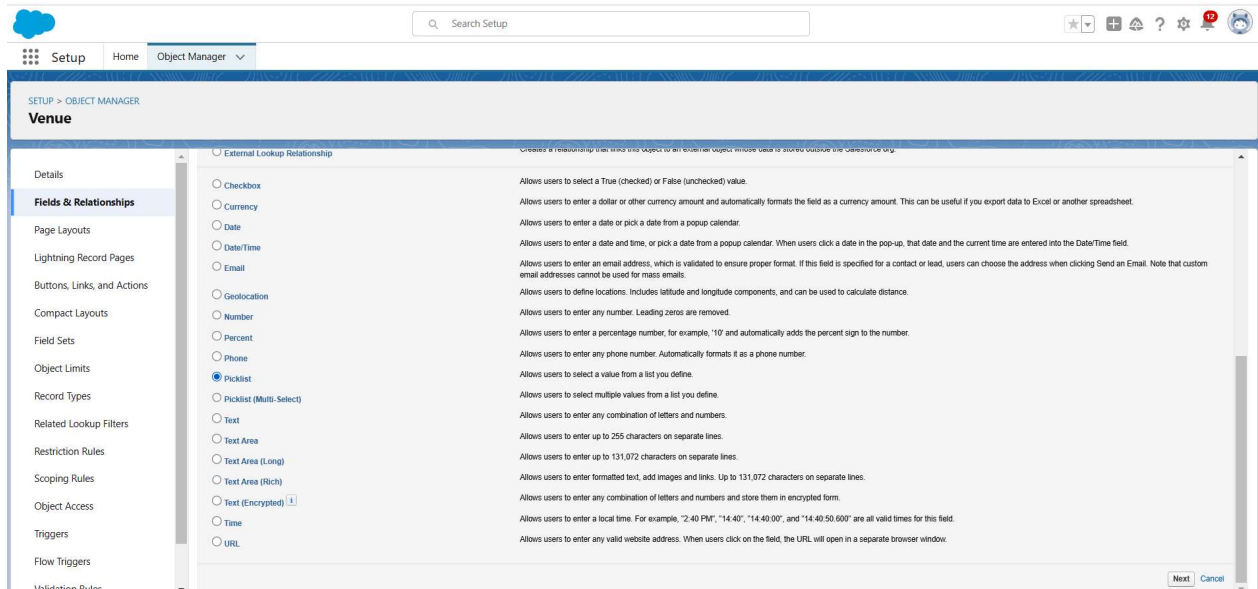
Record-Triggered Orchestration
Launches when a record is created or updated. An orchestration lets you create a multi-step, multi-user process.

All Flow Types

Autolaunched Flow (No Trigger)
Launches when invoked by Apex, processes, REST API, and more. This autolaunched flow runs in the background.

Autolaunched Orchestration (No Trigger)
Launches when invoked by Apex, REST API, and more.

Back Create

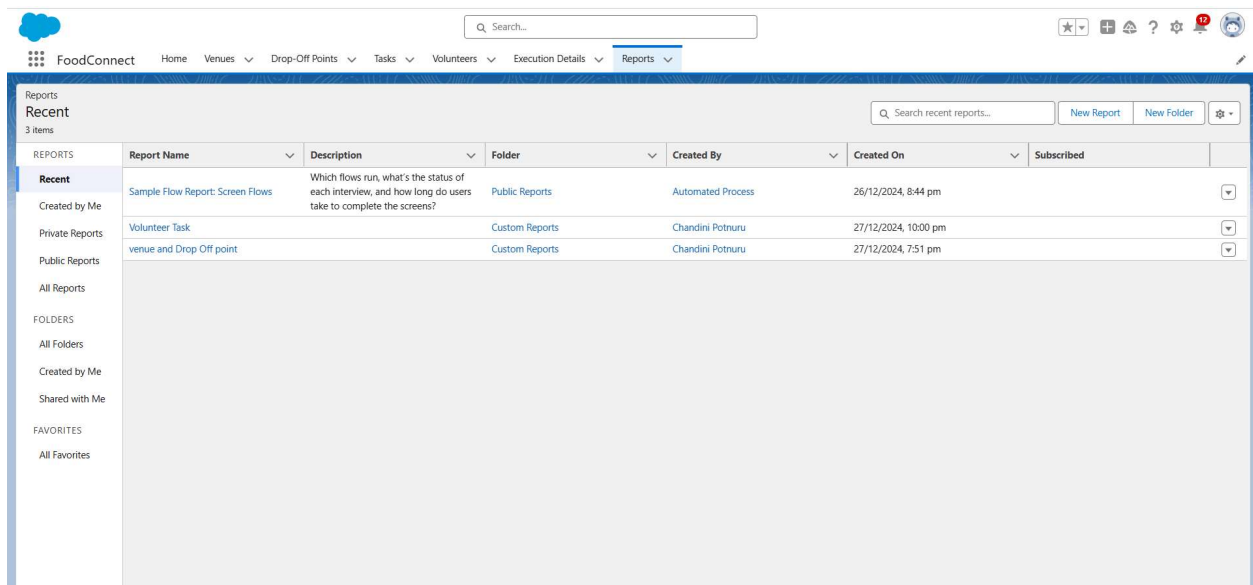


5. Testing and Validation

- **Unit Testing (Apex Classes, Triggers):** If custom Apex code is used for any automation or integrations, unit tests will be implemented.
- **User Interface Testing:** Platform administrators, food donors, and representatives from recipient organizations will conduct user acceptance testing (UAT) to validate the platform's functionality and usability. This includes testing different user roles and permissions.

6. Key Scenarios Addressed by Salesforce in the Implementation Project

- **Scenario 1: Food Donor Creates a Donation:** A restaurant uses the platform (via web or mobile app) to create a new donation listing, specifying the type and quantity of leftover food and the available pickup time.
- **Scenario 2: Recipient Organization Accepts a Donation:** A shelter receives a notification about a nearby food donation and accepts it through the platform.
- **Scenario 3: Donation Pickup and Delivery:** The recipient organization (or a volunteer) picks up the donation from the food donor at the scheduled time. The donation status is updated in the system.
- **Scenario 4: Reporting and Analysis:** Platform administrators use reports and dashboards to track key metrics, such as the total amount of food donated, the number of meals provided, and the participation of donors and recipients.



The screenshot displays the 'Reports' section of the FoodConnect application. The top navigation bar includes the FoodConnect logo, a search bar, and various utility icons. The main interface features a sidebar with navigation options: 'Recent' (3 items), 'All Reports', 'FOLDERS' (All Folders, Created by Me, Shared with Me), and 'FAVORITES' (All Favorites). The central area shows a table of recent reports with columns for Report Name, Description, Folder, Created By, Created On, and Subscribed. The table lists three reports: 'Sample Flow Report: Screen Flows' (Public Reports, Automated Process, 26/12/2024, 8:44 pm), 'Volunteer Task' (Custom Reports, Chandini Potnuru, 27/12/2024, 10:00 pm), and 'venue and Drop Off point' (Custom Reports, Chandini Potnuru, 27/12/2024, 7:51 pm).

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	26/12/2024, 8:44 pm	
Created by Me	Volunteer Task		Custom Reports	Chandini Potnuru	27/12/2024, 10:00 pm	
Private Reports	venue and Drop Off point		Custom Reports	Chandini Potnuru	27/12/2024, 7:51 pm	
Public Reports						
All Reports						
FOLDERS						
All Folders						
Created by Me						
Shared with Me						
FAVORITES						
All Favorites						

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Drop-Off Point

Details

Fields & Relationships
9 Items. Sorted by Field Label

Q Quick Find 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(14, 4)		
distance calculation	distance_calculation__c	Formula (Number)		
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__c	Venue__c	Lookup(Venue)		✓

Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
Compact Layouts
Field Sets
Object Limits
Record Types
Related Lookup Filters
Restriction Rules
Scoping Rules
Object Access
Triggers
Flow Triggers
Validation Rules

7. Conclusion

- Summary of Achievements:** This project aims to create a robust platform to connect leftover food with those in need, reducing food waste and addressing food insecurity. The Salesforce implementation will provide a centralized system for managing donations, optimizing logistics, and tracking impact.

This documentation provides a framework for a Salesforce project focused on food donation management. Remember to customize it with your specific requirements, adding detailed configurations, screenshots, and any custom code. Consider also how you'll handle data privacy and any food safety regulations.