

# To Supply Leftover Food to Poor

## 1. Project Overview

"Food Connect" is a Salesforce-powered platform designed to connect food donors (e.g., restaurants, events, individuals) with non-profit organizations and volunteers. The goal is to efficiently redistribute surplus food to those in need, reducing food waste and addressing hunger.

## 2. Objectives

- **Reduce Food Waste:** Ensure surplus food is redirected to those in need instead of being discarded.
- **Ease of Access:** Provide an intuitive platform for donors and volunteers to coordinate food distribution.
- **Real-Time Tracking:** Enable real-time monitoring of donations and deliveries to ensure transparency.
- **Data-Driven Decisions:** Use reports and analytics to identify high-demand areas and optimize operations.

## 3. Key Features

### Donor Portal

- Register donations with details like food type, quantity, and pickup time.
- View donation history and impact metrics.

### Non-Profit Portal

- Request food based on availability and needs.
- Manage recipient records and distribution.

### Volunteer Management

- Allow volunteers to sign up for food pickups and deliveries.
- Track volunteer contributions and schedules.

### Real-Time Updates

- Notifications for new donations, pickup reminders, and delivery status.
- Integration with Google Maps for route optimization.

### Analytics Dashboard

- Insights into donation trends, volunteer performance, and demand-supply gaps.

### Mobile App



- Simplified interface for donors and volunteers to manage tasks on the go.

## 4. User Roles

### Admin

- Manage user accounts, roles, and permissions.
- Oversee all activities on the platform.

### Donor

- Register food donations and view donation impact.

### Non-Profit Organization (NPO)

- Receive and distribute food donations.
- Update inventory and recipient records.

### Volunteer


- Handle food pickups and deliveries.
- Update delivery status.

The screenshot displays the FoodConnect dashboard interface. At the top, there is a navigation bar with a search bar and various icons. Below the navigation bar, the main content area is divided into several sections. On the left, there is a 'Task Execution Details' section with a sub-header 'Dashboard' and a date/time stamp 'As of 05-Jan-2025, 2:50 pm Viewing as Alekhya Gurram'. This section contains two charts: 'venue and Drop Off point' and 'Volunteer Task', both of which display the message 'We can't draw this chart because there is no data'. To the right of these charts is a 'Venue Form' section. The form includes fields for 'Venue Name', 'Email' (with the placeholder 'you@example.com'), 'Phone', 'Venue Location', 'Latitude', and 'Longitude'. A 'Next' button is located at the bottom right of the form. The dashboard also features a sidebar with navigation links: Home, Venues, Drop-Off Points, Tasks, Volunteers, Execution Details, Reports, and Dashboards.

- Security
- Guest User **Sharing** Rule Access Report

**Sharing Settings**

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



SETUP

Sharing Settings

Work Type Sharing Rules

New Recalculate

Work Type Sharing Rules Help

No sharing rules specified.

Work Type Group Sharing Rules

New Recalculate

Work Type Group Sharing Rules Help

No sharing rules specified.

Drop-Off Point Sharing Rules

New Recalculate

Drop-Off Point Sharing Rules Help

Action	Criteria	Shared With	Access Level
<a href="#">Edit</a>   <a href="#">Del</a>	Drop-Off Point: Distance LESS THAN 15	Group: Iksha	Read Only
<a href="#">Edit</a>   <a href="#">Del</a>	(Drop-Off Point: Distance GREATER THAN 15) AND (Drop-Off Point: Distance LESS OR EQUAL 30)	Group: NSS	Read Only
<a href="#">Edit</a>   <a href="#">Del</a>	(Drop-Off Point: Distance GREATER THAN 30) AND (Drop-Off Point: Distance LESS OR EQUAL 50)	Group: Street Cause	Read Only

Task Sharing Rules

New Recalculate

Task Sharing Rules Help

No sharing rules specified.

Venue Sharing Rules

New Recalculate

Venue Sharing Rules Help

No sharing rules specified.

- Users
- Permission Set Groups

Permission Sets

Profiles

Public Groups

Queues

Roles


User Management Settings

**Users**
- Feature Settings

Data.com

Prospector **Users**

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



SETUP

Users

All Users

Help for this Page

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](#)

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**

New User Reset Password(s) Add Multiple Users

<input type="checkbox"/>	Action	Full Name	Alias	Username	Role	Active	Profile
<input type="checkbox"/>	<a href="#">Edit</a>	Chatter Expert	Chatter	chatty00dsv00000inustmah.rmew1obxmvr@chatter.salesforce.com		✓	Chatter Free User
<input type="checkbox"/>	<a href="#">Edit</a>	Gurram Alekhya	AGurr	alekhya@mvgr.com		✓	System Administrator
<input type="checkbox"/>	<a href="#">Edit</a>	Iksha_Foundation_Iksha Foundation	iksh	ikshaafoundation@sb.com		✓	NGOs Profile
<input type="checkbox"/>	<a href="#">Edit</a>	NSS_NSS	nnss	ikshafoundationnnnn@sb.com@gmail.com		✓	NGOs Profile
<input type="checkbox"/>	<a href="#">Edit</a>	Street_Cause_Street Cause	ssstre	ikshafoundationnnnn@sb.com@gmail.com		✓	NGOs Profile
<input type="checkbox"/>	<a href="#">Edit</a>	User_Integration	integ	integration@00dsv00000inustmah.com		✓	Analytics Cloud Integration User
<input type="checkbox"/>	<a href="#">Edit</a>	User_Security	sec	insightssecurity@00dsv00000inustmah.com		✓	Analytics Cloud Security User

New User Reset Password(s) Add Multiple Users





Setup Home Object Manager

- Feature Settings
  - Analytics
    - Reports & Dashboards
      - Access Policies
      - Historical Trending
      - Report Types
      - Reporting Snapshots
      - Reports and Dashboards Settings
  - Security
    - Guest User Sharing Rule Access
    - Report

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

## Report Types

### All Custom Report Types

With custom report types, you can enable users to create reports from the predefined objects, object relationships, and fields that you specify.

View: [All Custom Report Types](#) [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

New Custom Report Type						
Action	Label ↑	Description	Category	Deployed	Created By Alias	Created Date
<a href="#">Edit</a>   <a href="#">Del</a>	<a href="#">Drop-Off Points with Volunteers with Execution Details</a>	Drop-Off Points with Volunteers with Execution Details	Other Reports	✓	A Gurram	04/01/2025
<a href="#">Edit</a>   <a href="#">Del</a>	<a href="#">Orchestration Run Logs Spring '24</a>	Find out which orchestration run logs were created and what happened in their associated orchestration runs.	Other Reports	✓	autoproc	04/01/2025
<a href="#">Edit</a>   <a href="#">Del</a>	<a href="#">Orchestration Runs Spring '24</a>	Find out which orchestration runs were created.	Other Reports	✓	autoproc	04/01/2025
<a href="#">Edit</a>   <a href="#">Del</a>	<a href="#">Orchestration Stage Runs Spring '24</a>	Find out which orchestration stage runs were created and the current status of each run.	Other Reports	✓	autoproc	04/01/2025
<a href="#">Edit</a>   <a href="#">Del</a>	<a href="#">Orchestration Step Runs Spring '24</a>	Find out which orchestration step runs were created and the current status of each run.	Other Reports	✓	autoproc	04/01/2025
<a href="#">Edit</a>   <a href="#">Del</a>	<a href="#">Orchestration Work Items Spring '24</a>	Find out which orchestration work items were created, who's the associated assignee, and what's the current status of each work item.	Other Reports	✓	autoproc	04/01/2025
<a href="#">Edit</a>   <a href="#">Del</a>	<a href="#">Program Definition Spring '24</a>	Review your analytics with a program-like structure. See each program task, target day, results, and more directly in a report and dashboard.	Other Reports	✓	autoproc	04/01/2025





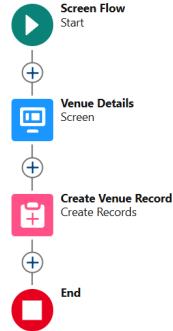
FoodConnect Home Venues Drop-Off Points Tasks Volunteers Execution Details Reports Dashboards

### Recent

3 items

[New Report](#)
[New Folder](#)


REPORTS	Report Name	Description	Folder	Created By	Created On	Subscribed
Recent	<a href="#">Sample Flow Report: Screen Flows</a>	Which flows run, what's the status of each interview, and how long do users take to complete the screens?	Public Reports	Automated Process	4/1/2025, 5:13 pm	<a href="#">▼</a>
Created by Me	<a href="#">venue and Drop Off point</a>		Custom Reports	Alekhyia Gurram	4/1/2025, 10:46 pm	<a href="#">▼</a>
Private Reports	<a href="#">Volunteer Task</a>		Custom Reports	Alekhyia Gurram	5/1/2025, 2:31 pm	<a href="#">▼</a>
Public Reports						
All Reports						
FOLDERS						
All Folders						
Created by Me						
Shared with Me						
FAVORITES						
All Favorites						



☁️
Search Setup

⚙️
Home
Object Manager

⚙️
Setup

🔍
tabs

⌵
User Interface

Rename Tabs and Labels

Tabs

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

⚙️
SETUP
Tabs

### 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.

Action	Label	Tab Style	Description
<a href="#">Edit</a>   <a href="#">Del</a>	Drove-Off Points	Musical Note	
<a href="#">Edit</a>   <a href="#">Del</a>	Execution Details	Jewel	
<a href="#">Edit</a>   <a href="#">Del</a>	Tasks	Car	
<a href="#">Edit</a>   <a href="#">Del</a>	Venues	Star	
<a href="#">Edit</a>   <a href="#">Del</a>	Volunteers	Camera	

Web Tabs
New
What Is This?

Setup

Home

Object Manager

SETUP > OBJECT MANAGER

Task

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

Fields & Relationships

15 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)		
Date	Date__c	Date		
Distanceeeee	Distance__c	Number(14, 4)		
Drop-Off Point	Drop_Off_Point__c	Lookup(Drop-Off Point)		
Feedback	Feedback__c	Long Text Area(32768)		
Food Category	Food_Category__c	Picklist (Multi-Select)		
Last Modified By	LastModifiedById	Lookup(User)		
Name of the Person	Name_of_the_Person__c	Text(255)		

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

Fields & Relationships

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

[SETUP > OBJECT MANAGER](#)

## Drop-Off Point

[Details](#)

[Fields & Relationships](#)

[Page Layouts](#)

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[Related Lookup Filters](#)

[Search Layouts](#)

**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(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		

[SETUP > OBJECT MANAGER](#)

## Venue

[Details](#)

[Fields & Relationships](#)

[Page Layouts](#)

[Lightning Record Pages](#)

[Buttons, Links, and Actions](#)

[Compact Layouts](#)

[Field Sets](#)

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[Search Layouts](#)




[List View Button Layout](#)

**Fields & Relationships**  
 8 Items, Sorted by Field Label

[New](#)
[Deleted Fields](#)
[Field Dependencies](#)
[Set History Tracking](#)

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Contact Email	Contact_Email__c	Email		
Contact Phone	Contact_Phone__c	Phone		
Created By	CreatedById	Lookup(User)		
Last Modified By	LastModifiedById	Lookup(User)		
Location	Location__c	Geolocation		
Owner	OwnerId	Lookup(User,Group)		✓
Venue Location	Venue_Location__c	Long Text Area(32768)		
Venue Name	Name	Text(80)		✓

Setup
Home
Object Manager

SETUP > OBJECT MANAGER

### Volunteer

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

13 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
Address	Address__c	Long Text Area(32768)		
Age	Age__c	Number(18, 0)		
Available On	Available_On__c	Date		
Contact Number	Contact_Number__c	Number(18, 0)		
Created By	CreatedById	Lookup(User)		
Date of Birth	Date_of_Birth__c	Date		
Drop-Off Point	Drop_Off_Point__c	Master-Detail(Drop-Off Point)		

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

Dashboards

### Recent

2 Items

Q Search recent dashboards...

New Dashboard New Folder

DASHBOARDS	Dashboard Name	Description	Folder	Created By	Created On	Subscribed
Recent	Task Execution Details		Custom Dashboards	Alekhyia Gurram	5/1/2025, 2:50 pm	
Created by Me	Organization Details		Private Dashboards	Alekhyia Gurram	5/1/2025, 2:43 pm	

Private Dashboards

All Dashboards

FOLDERS

All Folders

Created by Me

Shared with Me

FAVORITES

All Favorites

## 5. Technical Specifications

### Platform: Salesforce

- **Cloud:** Salesforce Nonprofit Cloud
- **Customizations:** Apex Classes, Triggers, Lightning Components, and Flows
- **Integrations:** Google Maps API, SMS/Email Notifications (Twilio or SendGrid)

### Data Model

- **Objects:**
  - **Donations:** Tracks food donations with attributes like type, quantity, expiration date, and pickup time.
  - **Organizations:** Stores details of registered non-profits.
  - **Volunteers:** Tracks volunteer availability and activities.





- **Deliveries:** Manages delivery status and routes.

## Security

- Role-based access control.
- Data encryption for sensitive information.

## 6. Implementation Steps

### Phase 1: Requirement Gathering

- Understand donor, volunteer, and NPO requirements.
- Map workflows for donations, pickups, and deliveries.

### Phase 2: System Design

- Define data model and relationships in Salesforce.
- Create wireframes for user interfaces.

### Phase 3: Development

- Set up Salesforce Nonprofit Cloud.
- Develop custom objects, flows, and automation using Apex and Lightning.
- Integrate third-party APIs for notifications and mapping.

### Phase 4: Testing

- Conduct unit testing for all customizations.
- Perform user acceptance testing (UAT) with pilot users.

### Phase 5: Deployment

- Migrate configurations to the production environment.
- Train end-users and distribute user guides.

### Phase 6: Post-Launch Support

- Monitor system performance and user feedback.
- Implement updates based on feedback and analytics.

## 7. Challenges and Solutions

- **Challenge:** Timely pickup of perishable food.
  - **Solution:** Real-time volunteer notifications and route optimization.
- **Challenge:** Ensuring food safety compliance.
  - **Solution:** Include fields for food expiration and safety checks in the workflow.

## 8. Benefits

- Efficient redistribution of surplus food to those in need.
- Reduction in food waste and environmental impact.
- Enhanced collaboration among donors, non-profits, and volunteers.
- Improved transparency and accountability in food distribution.

## 9. Future Enhancements



- AI-based demand prediction to prioritize high-need areas.
- Expand integrations to include delivery services like Uber or DoorDash.
- Gamification to encourage donor and volunteer participation.

## 10. Conclusion

The "Food Connect" project leverages Salesforce's robust platform to address two critical societal challenges: food waste and hunger. By creating a streamlined, user-friendly system for donors, non-profits, and volunteers, the platform fosters collaboration and ensures that surplus food reaches those in need efficiently and safely.

Through its real-time tracking, analytics, and automation capabilities, "Food Connect" not only enhances transparency but also enables data-driven decision-making to optimize operations. The project promotes environmental sustainability by reducing food waste while making a meaningful impact on the lives of underserved communities.

Looking ahead, "Food Connect" has the potential to scale further by incorporating advanced technologies such as AI and expanding partnerships with logistics providers. This initiative serves as a testament to how technology can be a powerful enabler of social good, bridging the gap between surplus and scarcity in a world that needs innovative solutions to pressing challenges.