

# **TO SUPPLY LEFTOVER FOOD TO POOR**

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## **1. INTRODUCTION**

## **1.1PROJECT OVERVIEW**

The Leftover Food Supply Management System is a Salesforce-based application designed to facilitate the efficient collection and distribution of surplus food to underserved communities. It connects donors with drop-off points and volunteers to ensure timely and hygienic delivery. The system is built to streamline key operations such as donor registration, volunteer task assignment, and delivery tracking. To enhance efficiency and accountability, the application utilizes Salesforce automation tools like Flows, Approval Processes, and Email Alerts.

## **1.2PURPOSE**

The primary goal of this project is to empower organizations to efficiently manage the collection and distribution of surplus food. The system aims to reduce manual effort, improve the accuracy of tracking, and ensure timely coordination among donors, volunteers, and drop-off points.

Of course, Hem. Here is a structured outline for a document on a " Leftover Food Supply Management System," including the sections you requested for the beginning and the end.

Good

## 1.3 PROBLEM STATEMENT

The core problem is the inefficient and unorganized management of surplus food.

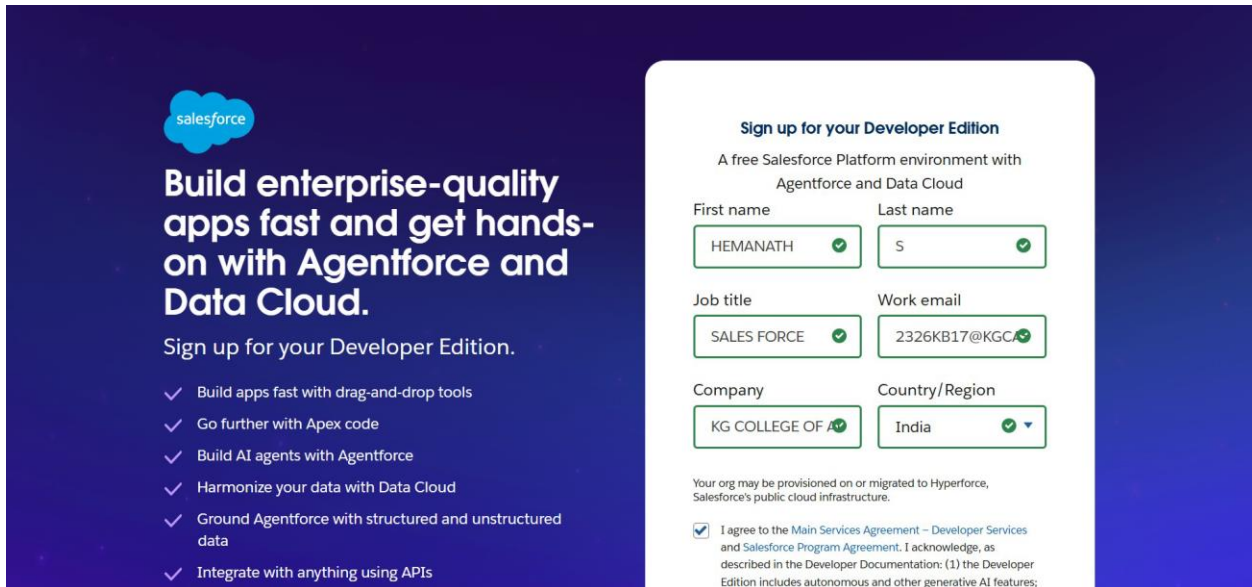
Key challenges include:

- **LACK OF REAL-TIME INFORMATION:** Food donors (e.g., restaurants) have no immediate way to communicate the availability of surplus food to potential recipients (e.g., NGOs, shelters).
- **LOGISTICAL HURDLES:** There is no coordinated system for the timely pickup and delivery of perishable food, leading to spoilage.
- **FOOD SAFETY AND QUALITY CONCERNS:** Recipients have concerns about the safety and hygiene of leftover food, and donors fear liability issues.
- **SCALABILITY ISSUES:** Existing manual efforts by individual organizations are often limited in their geographical reach and cannot scale effectively to meet the demand.
- **DATA AND ANALYTICS GAP:** There is a lack of data on food waste hotspots, donation patterns, and demand, which prevents strategic planning and optimization.

# DEVELOPMENT PHASE

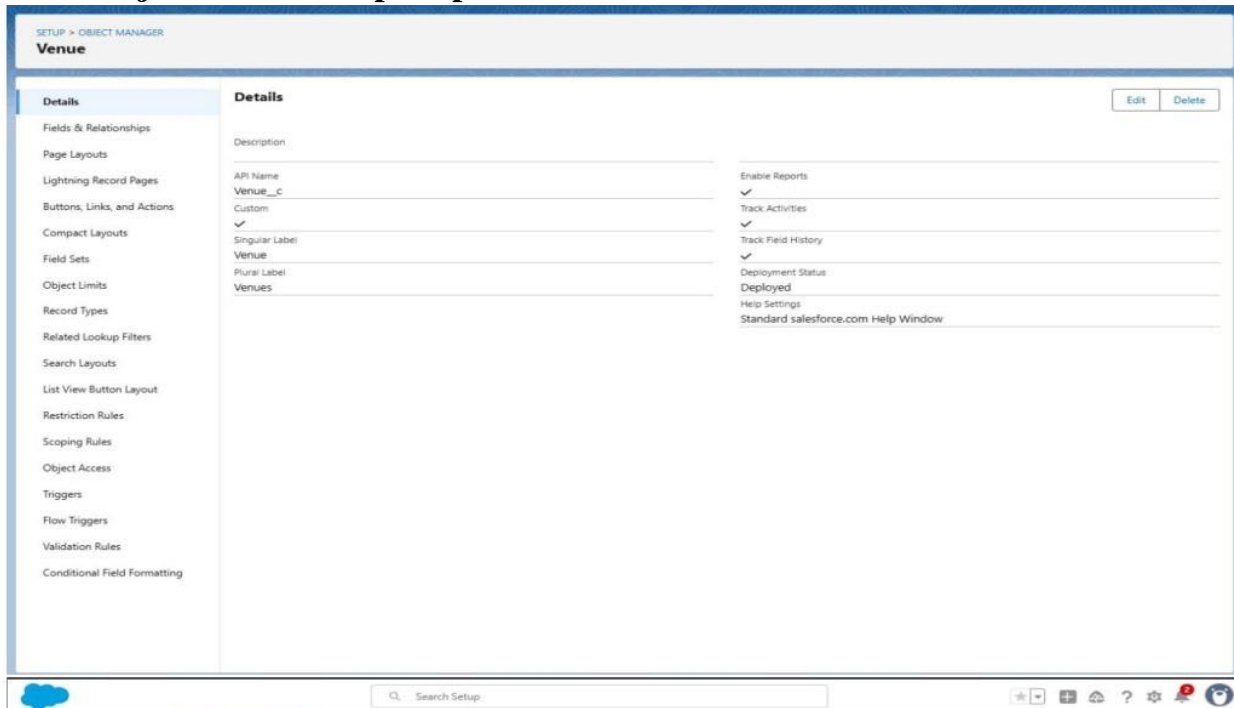
## Creating Developer Account:

By using this URL - <https://www.salesforce.com/form/developer-signup/?d=pb>



The image shows the Salesforce Developer Edition signup page. On the left, a dark blue banner contains the Salesforce logo and the text: "Build enterprise-quality apps fast and get hands-on with Agentforce and Data Cloud. Sign up for your Developer Edition." Below this, a list of benefits is shown with checkmarks: "Build apps fast with drag-and-drop tools", "Go further with Apex code", "Build AI agents with Agentforce", "Harmonize your data with Data Cloud", "Ground Agentforce with structured and unstructured data", and "Integrate with anything using APIs". On the right, a white form titled "Sign up for your Developer Edition" contains the following fields: "First name" (HEMANATH), "Last name" (S), "Job title" (SALES FORCE), "Work email" (2326KB17@KGC), "Company" (KG COLLEGE OF), and "Country/Region" (India). Below the form, there is a checkbox for "I agree to the Main Services Agreement – Developer Services and Salesforce Program Agreement..." which is checked. A note at the bottom states: "Your org may be provisioned on or migrated to Hyperforce, Salesforce's public cloud infrastructure."

## Created objects: venue drop off point task volunteer execution details:



The image shows the Salesforce Object Manager interface for the "Venue" object. The left sidebar lists various configuration options: "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", "Scoping Rules", "Object Access", "Triggers", "Flow Triggers", "Validation Rules", and "Conditional Field Formatting". The main area is titled "Details" and contains the following information: "Description", "API Name: Venue\_\_c", "Custom: [checked]", "Singular Label: Venue", "Plural Label: Venues", "Enable Reports: [checked]", "Track Activities: [checked]", "Track Field History: [checked]", "Deployment Status: Deployed", "Help Settings: Standard salesforce.com Help Window". At the bottom, there is a search bar labeled "Search Setup:" and a row of icons for navigation and settings.

Setup > OBJECT MANAGER

Drop-Off Point

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

Scoping Rules

Object Access

Triggers

Flow Triggers

Validation Rules

Conditional Field Formatting

Details

Description

API Name

Drop\_Off\_Point\_\_c

Custom

✓

Singular Label

Drop-Off Point

Plural Label

Drop-Off Points

Enable Reports

✓

Track Activities

✓

Track Field History

✓

Deployment Status

Deployed

Help Settings

Standard salesforce.com Help Window

EditDelete

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

Restriction Rules

Scoping Rules

Object Access

Triggers

Flow Triggers

Validation Rules

Conditional Field Formatting

Details

Description

API Name

Task\_\_c

Custom

✓

Singular Label

Task

Plural Label

Tasks

Enable Reports

✓

Track Activities

✓

Track Field History

✓


Deployment Status

Deployed

Help Settings

Standard salesforce.com Help Window

EditDelete



SetupHomeObject Manager

Search Setup

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

Restriction Rules

Scoping Rules

Object Access

Triggers

Flow Triggers

Validation Rules

Conditional Field Formatting

Details

Description

API Name  
Volunteer\_\_C

Custom

✓

Singular Label  
Volunteer

Plural Label  
Volunteers

Enable Reports

✓

Track Activities

✓

Track Field History

✓


Deployment Status  
Deployed

Help Settings  
Standard salesforce.com Help Window








Edit

Delete

<https://orgadm-0c04b022a4-dev-ed.develop.lightning.force.com/one/one.ap...>



Search Setup



SetupHomeObject 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

Scoping Rules

Object Access

Triggers

Flow Triggers

Validation Rules

Conditional Field Formatting

Details

Description

API Name

Execution\_Detail\_\_c

Custom

✓

Singular Label

Execution Detail

Plural Label

Execution Details

Enable Reports

✓

Track Activities

✓

Track Field History

✓

Deployment Status

Deployed


Help Settings

Standard salesforce.com Help Window








EditDelete

https://orgflm-0e04b022a4-dev-ed.develop.lightning.force.com/one/one.ap...

## Configured fields and relationships



Search Setup



SetupHomeObject Manager

SETUP > OBJECT MANAGER

Venue

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

Scoping Rules

Object Access

Triggers

Flow Triggers

Validation Rules

Conditional Field Formatting

Fields & Relationships

0 Fields, Sorted by Field Label

Quick Find

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

Search Setup

Setup > OBJECT MANAGER

Drop-Off Point

Details

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	INDEXED
Created By	CreatedBy	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)		✓

Setup

Home

Object Manager

Search Setup

Setup > OBJECT MANAGER

Task

Details

Details

Edit

Delete

Description

API Name

Task\_\_c

Custom

✓

Singular Label

Task

Plural Label

Tasks

Enable Reports

✓

Track Activities

✓

Track Field History

✓

Deployment Status

Deployed

Help Settings

Standard salesforce.com Help Window



Setup

Home

Object Manager

Search Setup

SETUP > OBJECT MANAGER

Task

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

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Related Lookup Filters

Search Layouts

List View Button Layout

Restriction Rules

Scoping Rules

Object Access

Triggers

Flow Triggers

Validation Rules

Conditional Field Formatting

Fields & Relationships

13 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)		
Date	Date__c	Date		
Distance	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(200)		
Number of People Served	Number_of_People_Served__c	Number(18, 0)		
Owner	OwnerId	Lookup(User,Group)		
Phone	Phone__c	Phone		
Rating	Rating__c	Picklist		
Sponsored By	Sponsored_By__c	Lookup(Venue)		
Task ID	Task_ID__c	Auto Number		
Task Name	Name	Text(80)		

Setup

Home

Object Manager

Search Setup

Star

Grid

Mobile

Help

Settings

Notifications

User

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

Scoping Rules

Object Access

Triggers

Flow Triggers

Validation Rules

Conditional Field Formatting

Fields & Relationships

5 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)		
Execution Detail Name	Name	Text(80)		<input checked="" type="checkbox"/>
Last Modified By	LastModifiedById	Lookup(User)		
Task	Task__c	Master-Detail(Task)		<input checked="" type="checkbox"/>
Volunteer	Volunteer__c	Master-Detail(Volunteer)		<input checked="" type="checkbox"/>

Search Setup

Star

Grid

Mobile

Help

Settings

Notifications

User

New Lightning App

App Options

Navigation and Form Factor

\* Navigation Style

☒ Standard navigation

☐ Console navigation

\* Supported Form Factors

☒ Desktop and phone

☐ Desktop

☐ Phone

Setup and Personalization

Setup Experience

☒ Setup (full set of Setup options)

☐ Service Setup

App Personalization Settings

☐ Disable end user personalization of nav items in this app

☐ Disable temporary tabs for items outside of this app

Back

Next

Salesforce Branding

12

Queue Management

QueueManagement

Create and manage queues for your business.

22/08/2023, 12:06 pm

Lightning

✓

Salesforce Navigation

13

Sales

Sales

The world's most popular sales force automation (SFA) solution

22/08/2023, 12:06 pm

Classic

## Available Items

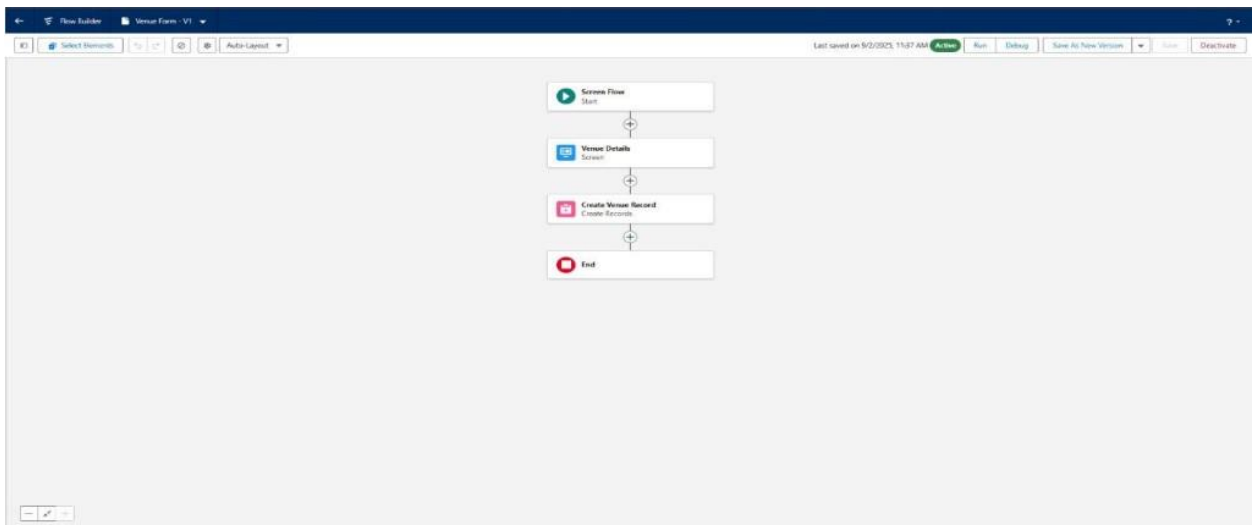
Refresh Create

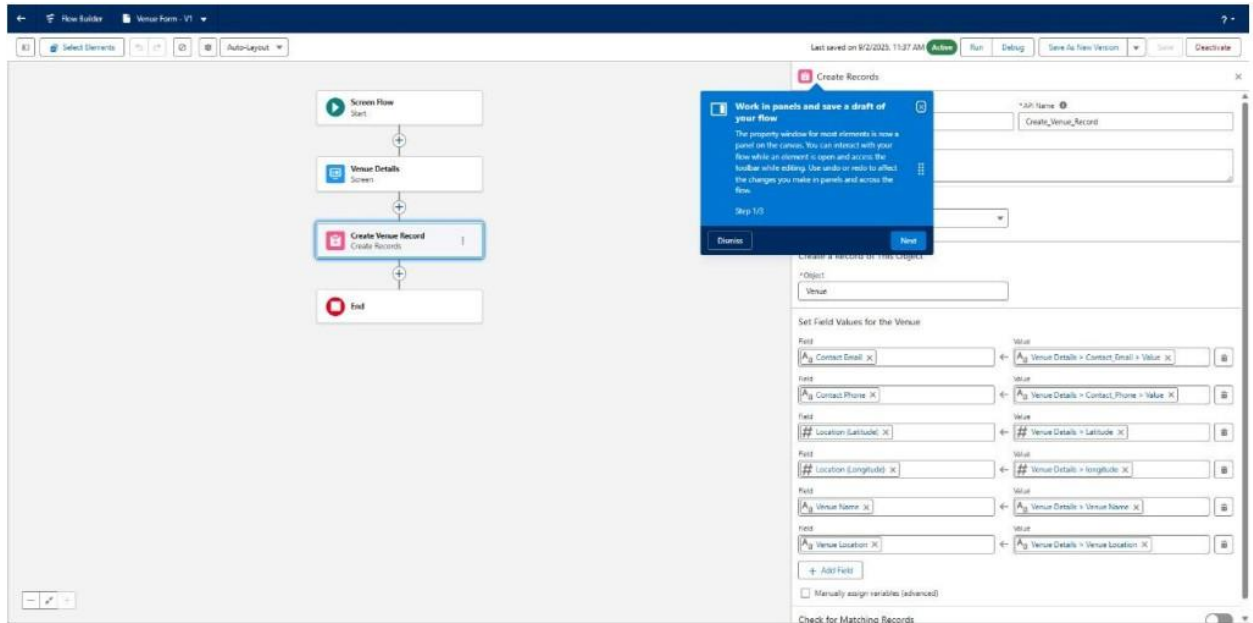
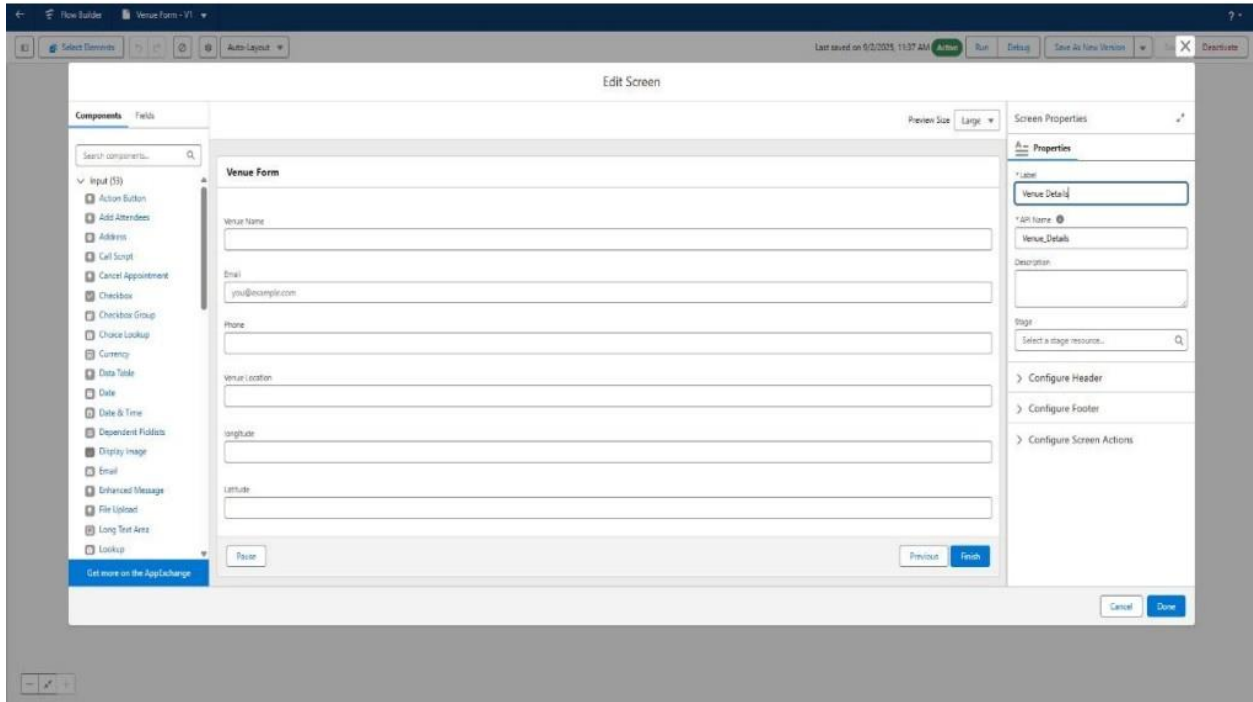
Type to filter list...

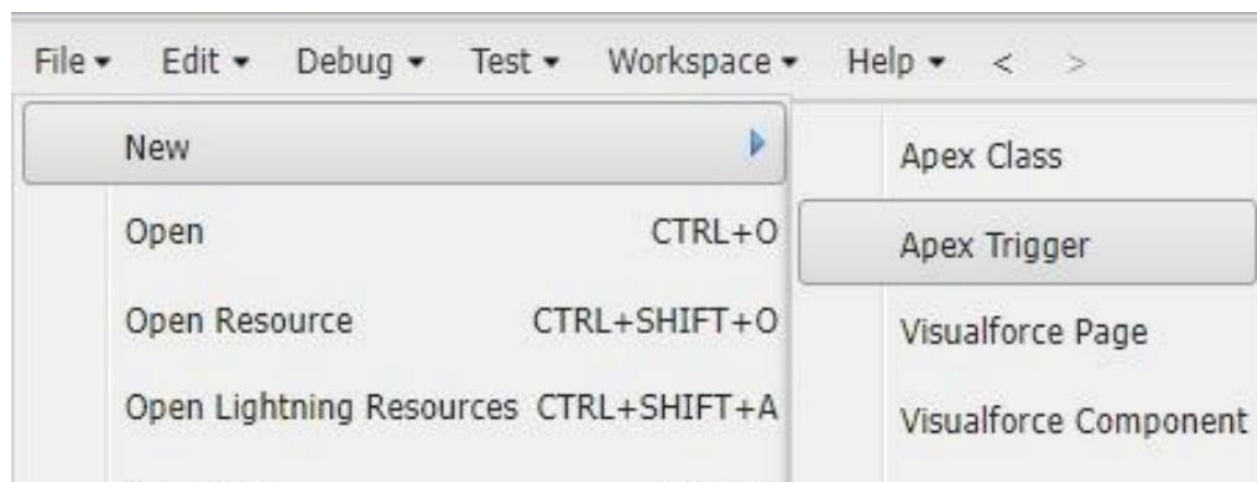
- Accounts
- All Sites
- Alternative Payment Methods
- Analytics
- App Launcher
- Appointment Categories
- Appointment Invitations
- Approval Requests
- Asset Action Sources
- Asset Actions

## Selected Items

- Home
- Venues
- Tasks
- Drop-Off points
- Execution Details
- Volunteers
- Reports
- Dashboards







### New Apex Trigger ✕

Name:

sObject:  ▼

Code Coverage: None API Version: 64 Go To

```
1 trigger DropOffTrigger on Drop_Off_point__c (before insert) {
2
3     for(Drop_Off_point__c Drop : Trigger.new){
4
5         Drop.Distance__c = Drop.distance_calculation__c;
6
7     }
8
9 }
10
11 |
```

General Information

First Name	<input type="text" value="Iksha Foundation"/>	Role	<None Specified>
Last Name	<input type="text" value="Iksha_Foundation"/>	User License	Salesforce Platform
Alias	<input type="text" value="iiksh"/>	Profile	NGOs Profile
Email	<input type="text" value="bhargavipaila1023@gmail.co"/>	Active	<input checked="" type="checkbox"/>
Username	<input type="text" value="ikshafoundation@sb.com"/>	Marketing User	<input type="checkbox"/>
Nickname	<input type="text" value="User1711437164226559933"/>	Offline User	<input type="checkbox"/>
Title	<input type="text"/>	Knowledge User	<input type="checkbox"/>
Company	<input type="text"/>	Flow User	<input type="checkbox"/>
Department	<input type="text"/>	Service Cloud User	<input type="checkbox"/>
Division	<input type="text"/>	Site.com Contributor User	<input type="checkbox"/>

Now

Action	Label ↑	Group Name	Created By	Created Date
<a href="#">Edit</a>   <a href="#">Del</a>	<a href="#">Iksha</a>	<a href="#">Iksha</a>	<a href="#">Bhargavi_Paila</a>	26/03/2024, 2:27 pm
<a href="#">Edit</a>   <a href="#">Del</a>	<a href="#">NSS</a>	<a href="#">NSS</a>	<a href="#">Bhargavi_Paila</a>	26/03/2024, 2:27 pm
<a href="#">Edit</a>   <a href="#">Del</a>	<a href="#">Street Cause</a>	<a href="#">Street_Cause</a>	<a href="#">Bhargavi_Paila</a>	26/03/2024, 2:26 pm

Outline

Filters 2

Groups

GROUP ROWS

Add group...

Volunteer Name

GROUP COLUMNS

Add group...

Columns

Add column...

Venue Name

Drop-Off point Name

# Distance

Previewing a limited number of records. Run the report to see everything.

Volunteer Name	Venue Name	Drop-Off point Name	Distance
- (4)	La Royale Banquet Hall.	Shapur	5.1161
	La Royale Banquet Hall.	Jeedimetla	6,902.9995
	Paradise Garden Function Hall	Suraram Village	28.2332
	Ujwala Grand	-	-
Subtotal			6,936.3488
Total (4)			6,936.3488

REPORT

Volunteer Task

Volunteers with Execution Details and Tasks

Update Preview Automatically

Run

Outline

Filters

GROUP ROWS

Add group...

Volunteer ID

GROUP COLUMNS

Add group...

Columns

Add column...

Volunteer: Volunteer Name

Task: Task Name

Execution Detail: Execution Detail Name

Volunteer: Owner Name

Task: Date

Task: Rating

Previewing a limited number of records. Run the report to see everything.

Volunteer ID	Volunteer: Volunteer Name	Task: Task Name	Execution Detail: Execution Detail Name	Volunteer: Owner Name	Task: Date	Task: Rating
2 (1)	Chwen	Task 2	Execution 2	Boha Foundation  Boha_Foundation	28/03/2024	5
Subtotal						
4 (1)	Bhavika	Task 1	Execution 1	Boha Foundation  Boha_Foundation	28/03/2024	4
Subtotal						
Total (2)						

Report

venue and Drop Off point

☐ Use chart settings from report

Display As

Groups

Add group...

Columns

Preview

venue and Drop Off point

Venue Name ↑	Drop-Off point Name	Distance
La Royale Banquet Hall.	Shapur	5.1161
La Royale Banquet Hall.	Jeedimetla	6.9030κ
Paradise Garden Function Hall	Suraram Village	28.2332
Ujwala Grand	-	-

View Report (venue and Drop Off point)

Report

Volunteer Task

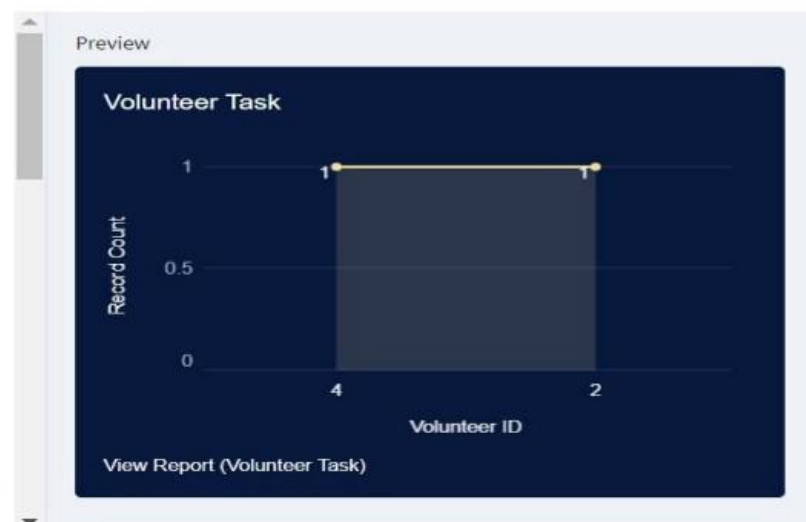
☐ Use chart settings from report

Display As

X-Axis

Volunteer ID

Y-Axis



FoodConnect

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

Dashboard

Task Execution Details

Last refreshed 18 days ago. Refresh this dashboard to see the latest data.

As of Sep 1, 2025, 11:24 PM Viewing as admin

Refresh Edit Subscribe

venue and Drop Off point

To view this table, refresh the dashboard.

View Report

As of Sep 1, 2025, 11:24 PM


Volunteer Task

View Report (Volunteer Task)








As of Sep 1, 2025, 11:24 PM

shutterstock.com - 2343495535






Q Search...



FoodConnectHomeVenuesTasksDrop-Off pointsExecution DetailsVolunteersReportsDashboards

**Dashboard**

**Task Execution Details**

As of 29-Mar-2024, 9:55 am Viewing as Palla Bhargava

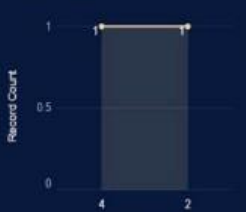
OpenRefreshSubscribe

**venue and Drop Off point**


Venue Name	Drop-Off point	Dis
La Royale Banquet Hall	Shapur	5,116
La Royale Banquet Hall	Jeedimetla	6,903
Paradise Garden Function Hall	Suraram Village	28,23
Ujwala Grand	-	-

View Report (venue and Drop Off point)

**Volunteer Task**



View Report (Volunteer Task)



**Venue Form**


Venue Name

Email

Phone

Venue Location

Next

**Dashboard**

**Task Execution Details**

As of 29-Mar-2024, 9:55 am Viewing as Palla Bhargava

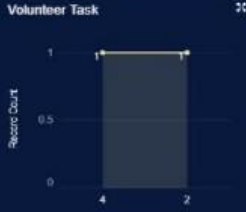
OpenRefreshSubscribe

**venue and Drop Off point**


Venue Name	Drop-Off point	Dis
La Royale Banquet Hall	Shapur	5,116
La Royale Banquet Hall	Jeedimetla	6,903
Paradise Garden Function Hall	Suraram Village	28,23
Ujwala Grand	-	-

View Report (venue and Drop Off point)

**Volunteer Task**



View Report (Volunteer Task)



**Flow Component: Venue Form**

This is a placeholder. Flows don't run in the canvas.

Add Component(s) Here

Add Component(s) Here

## **FUTURE SCOPE OF THE LEFTOVER FOOD SUPPLY MANAGEMENT SYSTEM:**

The system will evolve beyond its initial donor-to-NGO model by leveraging AI for intelligent, predictive logistics, forecasting food surpluses, and optimizing distribution routes. The ecosystem will expand significantly to include the entire supply chain, from farmers at the source to individual households at consumption. Critically, the platform will integrate with corporate CSR programs by providing verifiable impact data, and with municipal bodies to inform waste management policies. This transforms it from a simple rescue app into a vital piece of civic infrastructure, building a truly sustainable and circular economy for the community.

## **ADVANTAGES AND DISADVANTAGES**

### **ADVANTAGES:**

- **SOCIAL IMPACT:** Directly addresses hunger and malnutrition by redirecting surplus food to those in need.
- **ENVIRONMENTAL BENEFITS:** Significantly reduces food waste in landfills, which in turn lowers methane gas emissions, a potent greenhouse gas.
- **ECONOMIC BENEFITS:** Donors save money on waste disposal fees. Recipients reduce their food procurement costs.
- **EFFICIENCY AND SCALABILITY:** Automates the matching and logistics process, making it far more efficient and scalable than manual methods.

## **DISADVANTAGES:**

- **FOOD SAFETY AND LIABILITY:** The primary risk. Ensuring the donated food is safe for consumption is a major challenge. A single incident could damage the platform's reputation.
- **LOGISTICAL COMPLEXITY:** Coordinating timely pickups and deliveries for perishable goods is complex and can be costly.
- **TECHNOLOGY ADOPTION:** Both donors and smaller NGOs may be hesitant or lack the resources to adopt a new technology platform.
- **INCONSISTENT SUPPLY:** The availability of surplus food can be unpredictable, making it difficult for recipients to rely on it as a primary source.
- **INITIAL INVESTMENT COST:** Developing, launching, and maintaining the technology platform requires significant initial funding.

## **CONCLUSION**

The Leftover Food Supply Management System presents a powerful, technology-driven solution to the twin problems of food waste and hunger. By creating a transparent and efficient ecosystem, it connects the dots between surplus and scarcity. While challenges related to food safety, logistics, and user adoption exist, they can be mitigated through robust protocols, strategic partnerships, and a user-centric design. The potential social, environmental, and economic benefits overwhelmingly justify the endeavor. This system is not just about managing waste; it is about creating value, fostering community resilience, and ensuring that good food nourishes people, not landfills.

## **APPENDIX**

- Source Code: Provided in Apex Classes and Triggers trigger

DropOffTrigger on Drop\_Off\_point\_\_c (before insert)

```
{
```

```
for (Drop_Off_point__c Drop: Trigger.new)
```

```
{
```

```
Drop.Distance_c = Drop.distance_calculation_c;
```

```
}
```