

LEFTOVER FOOD SUPPLY MANAGEMENT SYSTEM

COLLEGE NAME: KG COLLEGE OF ARTS AND SCIENCE

COLLEGE CODE:

TEAM ID: NM2025TMID23753

TEAM LEADER: RAJALINGAM.R

EMAIL ID: 2326ka37@kgcas.com

TEAM MEMBER: RAMYA.D

EMAIL ID: 2326Ka38@kgcas.com

TEAM MEMBER: RISHIKESH.R

EMAIL ID: 2326Ka39@kgcas.com

TEAM MEMBER: RITHIK.M

EMAIL ID: 2326ka40@kgcas.com

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.

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.

Venue

- Details**
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- Record Types
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- Search Layouts
- List View Button Layout
- Restriction Rules
- Scoping Rules
- Object Access
- Triggers
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Details

Edit Delete

Description	
API Name	Venue__c
Custom	✓
Singular Label	Venue
Plural Label	Venues
Enable Reports	✓
Track Activities	✓
Track Field History	✓
Deployment Status	Deployed
Help Settings:	Standard salesforce.com Help Window

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Drop-Off Point

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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

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Details

Description

API Name

Task__c

Custom

✓

Singular Label

Task

Plural Label

Tasks

Enable Reports

✓

Track Activities

✓

Track Field History

✓

Deployment Status

Deployed

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Standard salesforce.com Help Window

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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

EditDelete

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Search Setup



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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



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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)		✓

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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)		✓

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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

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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

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Execution Detail

Details

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)		✓
Last Modified By	LastModifiedById	Lookup(User)		
Task	Task__c	Master-Detail(Task)		✓
Volunteer	Volunteer__c	Master-Detail(Volunteer)		✓

Fields & Relationships

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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)		✓
Last Modified By	LastModifiedById	Lookup(User)		
Task	Task__c	Master-Detail(Task)		✓
Volunteer	Volunteer__c	Master-Detail(Volunteer)		✓

Fields & Relationships

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Salesforce Navigation

Queue Management

Sales

QueueManagement

Sales

Create and manage queues for your business.

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

22/08/2023, 12:06 pm

22/08/2023, 12:06 pm

Lightning

Classic

Available Items

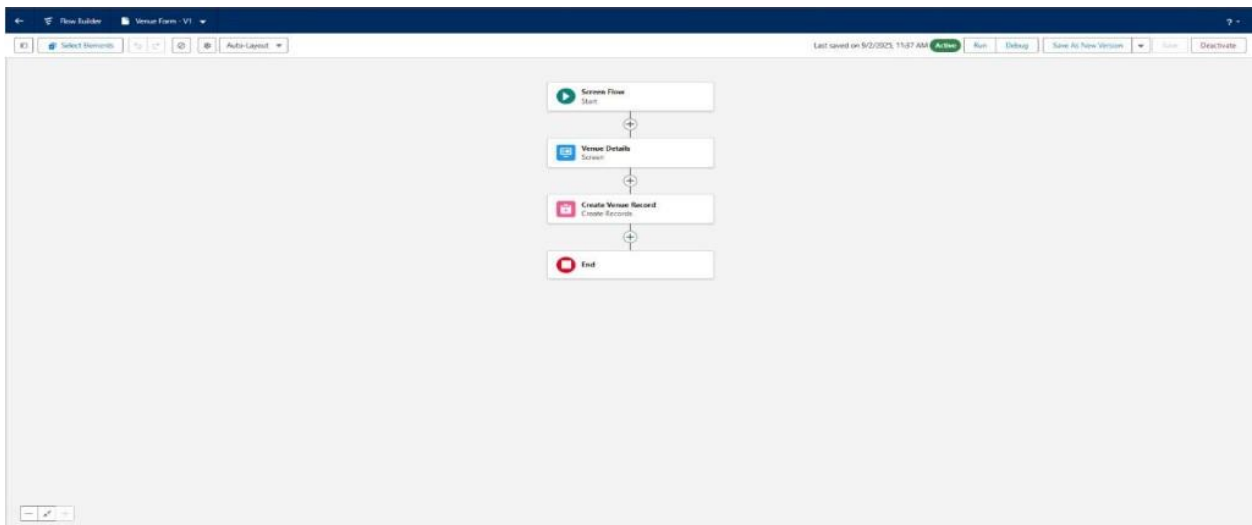
Refresh Create

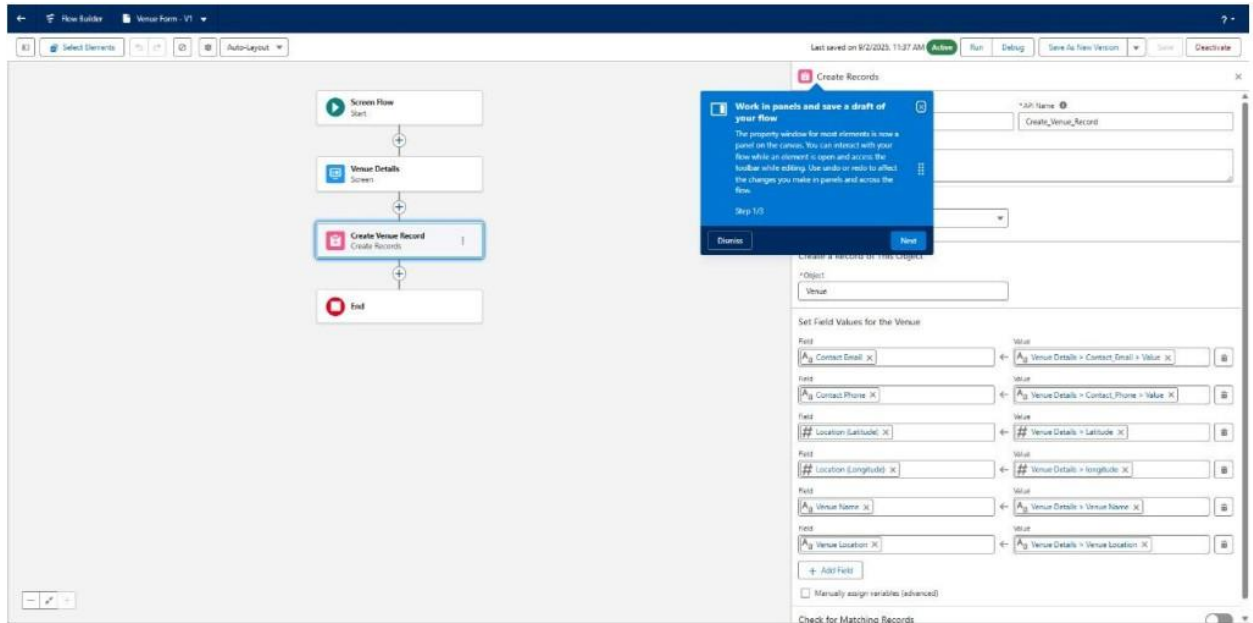
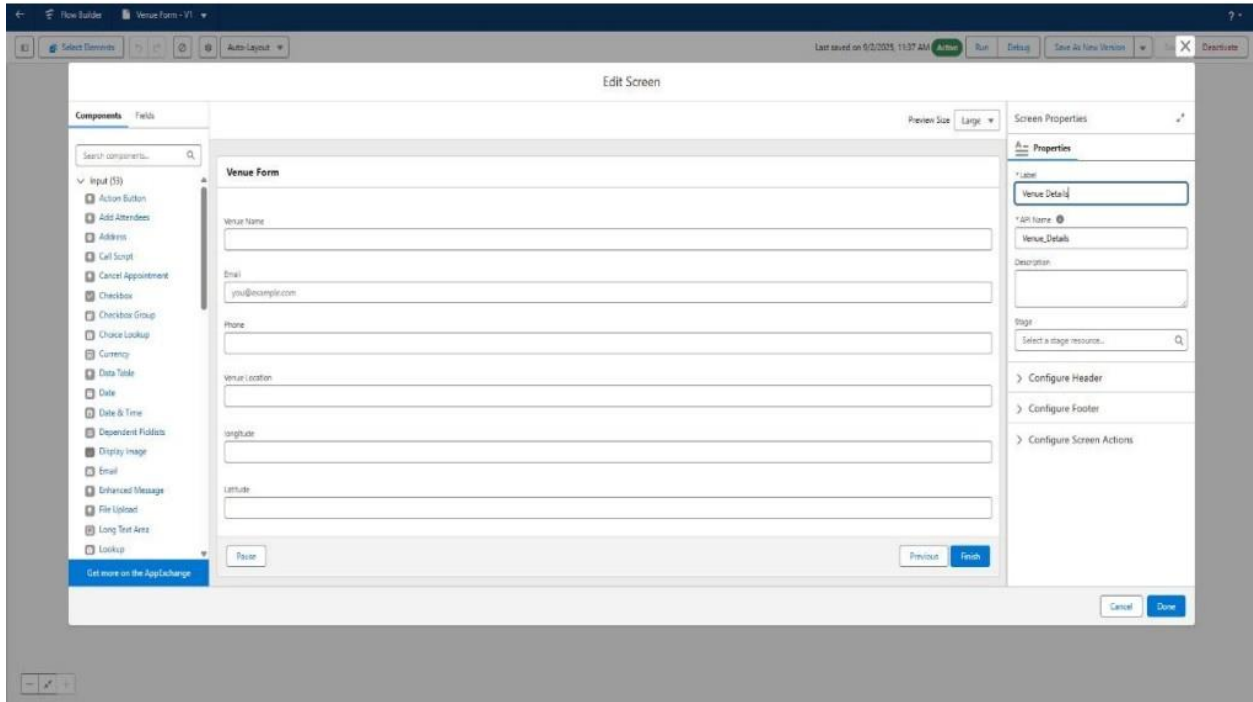
Type to filter list...

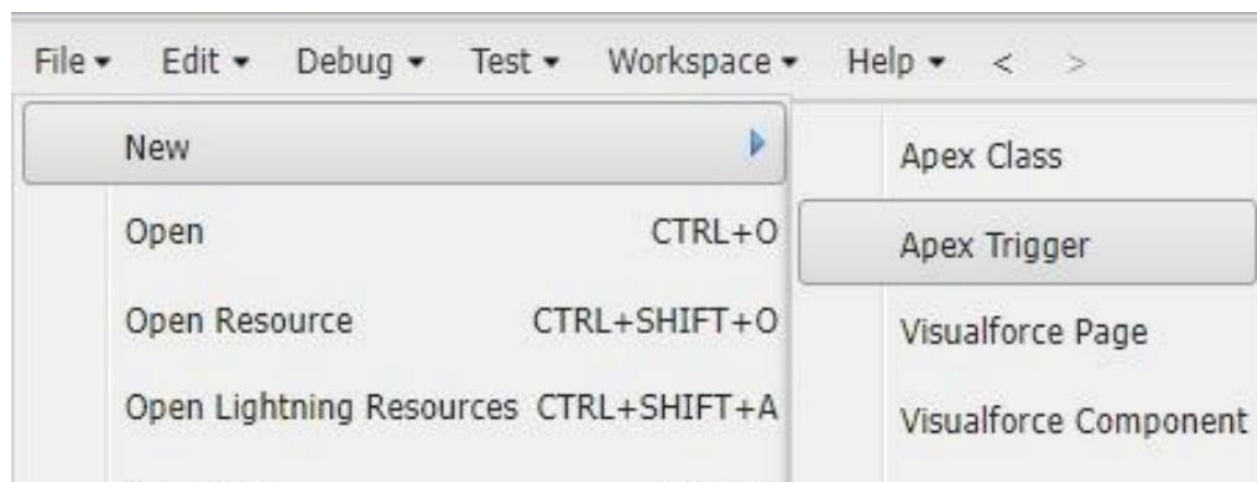
- Accounts
- All Sites
- Alternative Payment Methods
- Analytics
- App Launcher
- Appointment Categories
- Appointment Invitations
- Approval Requests
- Asset Action Sources
- Asset Actions

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
Edit Del	Iksha	Iksha	Bhargavi_Paila	26/03/2024, 2:27 pm
Edit Del	NSS	NSS	Bhargavi_Paila	26/03/2024, 2:27 pm
Edit Del	Street Cause	Street_Cause	Bhargavi_Paila	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

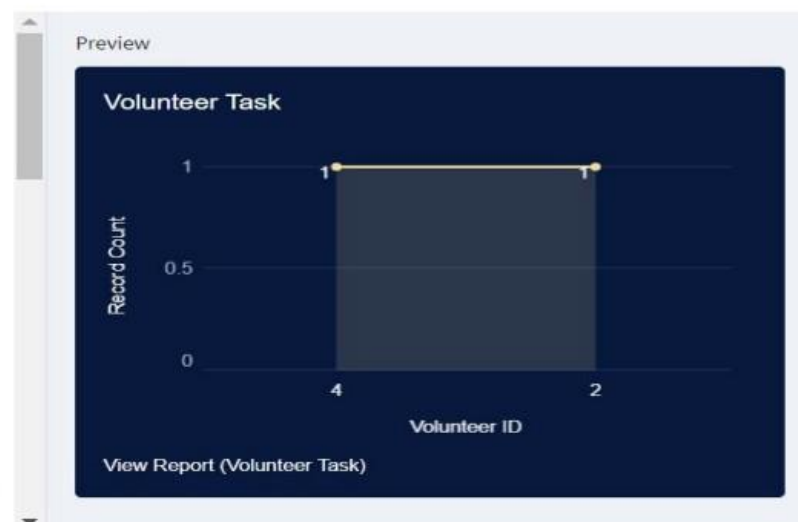
☐ Use chart settings from report

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

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FoodConnect



Home

Venues

Tasks


Drop-Off points

Execution Details

Volunteers

Reports

Dashboards

Dashboard

Task Execution Details

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

Open

Refresh


Subscribe

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 Bhargavi

Open

Refresh

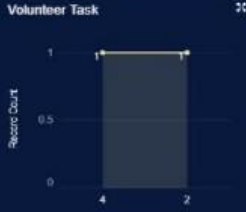
Subscribe

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;  
  
}
```