

TO SUPPLY LEFTOVER FOOD TO POOR

COLLEGE : KG COLLEGE OF ARTS AND SCIENCE

TEAM ID : NM2025TMID23585

TEAM SIZE : 4

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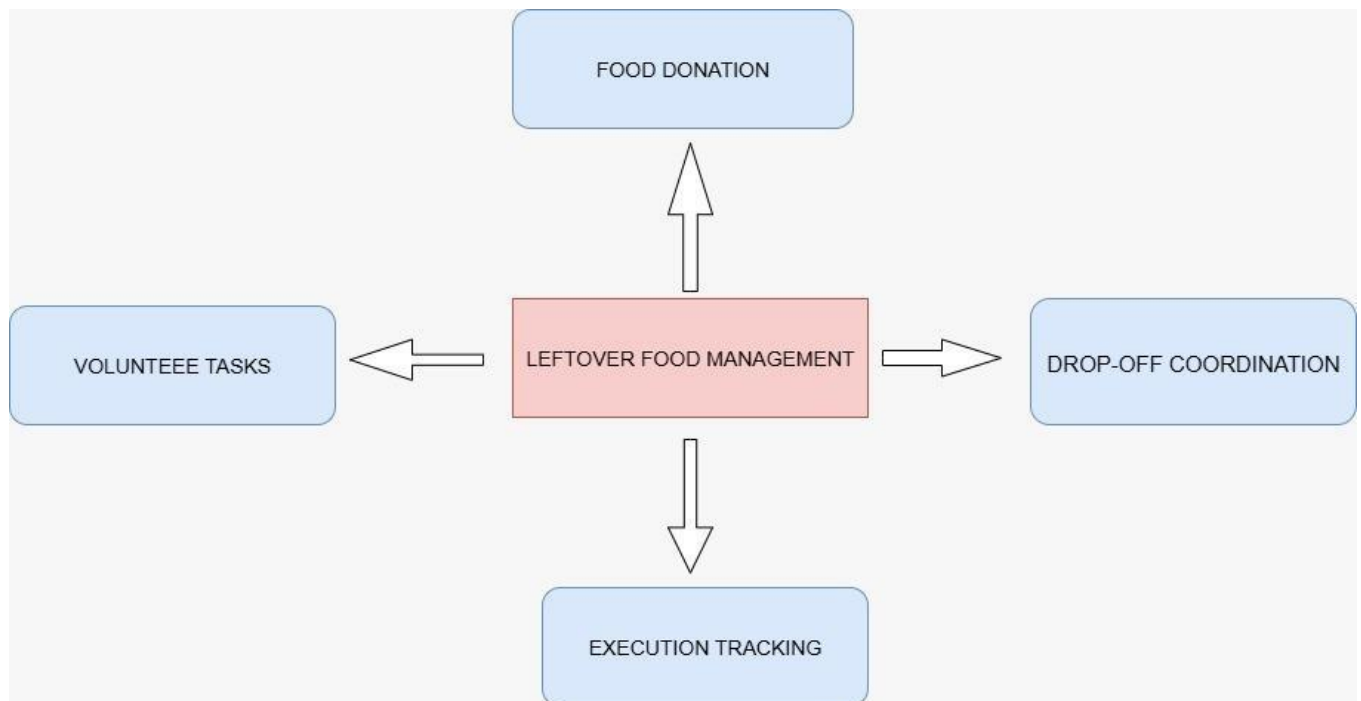
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1.INTRODUCTION

1.1 PROJECT OVERVIEW

The Leftover Food Supply Management System is a Salesforce-based application that facilitates 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 streamlines operations like donor registration, volunteer task assignment, and delivery tracking. Salesforce automation tools such as Flows, Approval Processes, and Email Alerts enhance efficiency and accountability.



1.2 PURPOSE

The main objective of the project is to enable organizations to efficiently manage the collection and distribution of surplus food. It reduces manual effort, improves tracking accuracy, and ensures timely coordination between donors, volunteers, and drop-off points.

- ❖ **To centralize the management of food donation activities**, ensuring transparency and accountability at every stage of the process.
- ❖ **To provide a reliable platform for volunteers** to register, receive assignments, and report completed tasks efficiently.
- ❖ **To facilitate real-time monitoring and reporting** of food pickup and delivery operations to ensure timely service.
- ❖ **To build a sustainable ecosystem** that connects food donors with those in need, reducing both hunger and food wastage.
- ❖ **To automate repetitive processes** like task assignments, approvals, and notifications to save time and reduce errors.
- ❖ **To ensure food safety and compliance**, by maintaining detailed execution records and quality checks during collection and distribution.
- ❖ **To empower NGOs and community organizations** with tools to scale their food distribution efforts using cloud-based technology.
- ❖ **To support data-driven decision-making** through dashboards and reports that track impact, volunteer performance, and donation volumes.

2. IDEATION PURPOSE

2.1 Problem Statement

In many urban and semi-urban areas, a significant amount of edible food is wasted daily by restaurants, event venues, and households, while at the same time, thousands of people struggle with hunger and food insecurity. There is a lack of a structured system to bridge the gap between food surplus sources and communities in need. Manual coordination is inefficient, unreliable, and often leads to delays, food spoilage, or missed opportunities to help.

The problem is further compounded by a lack of real-time communication between donors, volunteers, and distribution points. Without automation and centralized tracking, food redistribution remains inconsistent, unsustainable, and difficult to scale.

2.2 Empathy Map Canvas

An empathy map helps understand the needs, experiences, and challenges of key users involved in the system. Here's an example for **volunteers** — one of the primary stakeholders

Thinks

- "Am I making a real impact?"
- "How will I know where to pick up food?"
- "Is the food safe to carry?"

Feels

- Wants to feel useful and appreciated.
- Anxious about lack of clarity or coordination.
- Concerned about hygiene and logistics.

Says

- "I need clear and timely instructions."
- "It's hard to track my tasks."
- "This could be better organized."

Does

- Checks messages/emails for task info.
- Follows up with coordinators manually.
- Uses personal devices for navigation and updates.

2.3 Brainstorming

A brainstorming session was conducted to identify possible features and solutions for a centralized food supply system using Salesforce. The focus was on solving key pain points like manual coordination, volunteer scheduling, and delivery tracking.

◆ Brainstorming Objectives

- Design a system that simplifies food donation logistics.
- Enable automated volunteer assignment.
- Improve transparency and traceability of food distribution.
- Enhance engagement of volunteers through real-time updates

3. RERUIREMENT AND ANALYSIS

3.1 Functional Requirements

1. Donor Registration

The system should allow restaurants, event venues, and other food donors to register and submit details of available leftover food.

2. Volunteer Management

Volunteers should be able to register, update availability, and receive assigned tasks for food pickup or delivery.

3. Task Assignment

Tasks should be auto-assigned to available volunteers based on proximity, availability, and urgency.

4. Drop-Off Point Management

Admins should be able to manage and update drop-off locations such as shelters or food banks.

5. Execution Tracking

The system should track and log every step of the food collection and delivery process, including timestamps and status updates.

6. Notifications and Alerts

Automatic notifications should be sent to donors, volunteers, and drop-off centers for task updates and confirmations.

7. Reporting and Dashboards

Admin users should have access to real-time dashboards and reports showing task progress, volunteer activity, and food distribution statistics.

3.2 Non-Functional Requirements

1. Scalability

The system should be scalable to handle increasing numbers of donors, volunteers, and food items.

2. Security

User data, including contact information and locations, must be securely stored and accessible only by authorized users.

3. Usability

The interface should be simple and user-friendly to accommodate users with minimal technical knowledge.

4. **Reliability**
The system should ensure high uptime and accurately process all data with minimal errors.
5. **Performance**
Task assignment, data retrieval, and notifications should be processed in real-time or near real-time.

3.3 Technical Requirements

1. **Platform:** Salesforce (Lightning Experience)
2. **Automation Tools:** Flows, Process Builder, Approval Processes, Email Alerts
3. **Custom Objects:**
 - Venue
 - Drop-Off Point
 - Volunteer
 - Task
 - Execution Details
4. **User Roles:**
 - Admin
 - Donor
 - Volunteer
 - Coordinaton
 -

3.4 Analysis Summary

The system is designed to address key challenges in leftover food redistribution by leveraging Salesforce's automation and scalability. Functional and non-functional requirements were defined to ensure the system is efficient, secure, and user-friendly. The use of custom objects and automation tools supports a structured process for food donation, volunteer coordination, and execution tracking.

4.PROJECT DESIGN

4.1 Problem-Solution Fit

- The core problem identified is the inefficient and unorganized handling of surplus food, leading to wastage while people in need remain underserved. Traditional food donation methods rely heavily on manual coordination, lack real-time tracking, and are prone to miscommunication or delay.

- This project aims to bridge that gap by introducing a centralized system that automates key processes—donor registration, task assignment, volunteer management, and delivery tracking. Using Salesforce, the solution will optimize logistics, reduce waste, and ensure food reaches the right people on time.
- The problem-solution fit is evident: the system addresses all pain points—manual tracking, volunteer coordination, food safety, and reporting—through automation, centralized data, and real-time communication.

4.2 Proposed Solution

The **Leftover Food Supply Management System** is proposed as a Salesforce-based application that integrates all stakeholders (donors, volunteers, coordinators, and recipients) onto a single platform. It allows food donors to register leftover food, assigns tasks automatically to available volunteers, and facilitates real-time tracking of the food collection and delivery process.

Key features of the proposed solution include:

- **Custom Objects** for Venue, Volunteer, Task, Drop-Off Point, and Execution Details.
- **Automation Tools** like Flows, Approval Processes, and Email Alerts for assigning tasks and sending notifications.
- **Dashboards** for monitoring system-wide metrics including food quantity, volunteer performance, and delivery timelines.
- **Role-based Access** to ensure each user sees only what's relevant to their function (e.g., Donors, Volunteers, Admins).
-

This system minimizes manual intervention, enhances transparency, and improves service delivery.

4.3 Solution Architecture

The system architecture is designed using Salesforce's standard and custom capabilities, enabling scalability, automation, and centralized data handling. Below is a descriptive view of the architecture components:

1. User Interfaces

- **Donor Interface:** Submit food availability, view history.
- **Volunteer Interface:** View assigned tasks, update task status.
- **Admin Interface:** Manage users, monitor task progress, generate reports.
-

2. Salesforce Platform Components

- **Custom Objects:**
 - **Venue:** Stores donor details and food info.
 - **Drop-Off Point:** Lists distribution centers.
 - **Task:** Contains pickup/delivery assignments.
 - **Volunteer:** Holds volunteer profiles and availability.
 - **Execution Details:** Tracks the status of each donation cycle.

- **Automation Tools:**
 - **Flows:** Auto-assign tasks based on logic (location, time, availability).
 - **Approval Processes:** Validate food before dispatch.
 - **Email Alerts:** Notify stakeholders about task updates, confirmations, or delays.

3. Integration & Data Flow

- Donors input food availability → Task auto-created → Volunteer assigned → Notification sent → Task executed → Execution details logged → Report generated.

•

4. Reporting Layer

- Salesforce Dashboards provide:
 - Total meals delivered
 - Food wasted vs. distributed
 - Volunteer task completion rate
 - Drop-off point performance

5. PROJECT PLANNING AND SCHEDULING

Effective planning and scheduling are essential for the successful development and deployment of the **Leftover Food Supply Management System**. The project follows a **phased approach**, dividing the work into clear, manageable stages, each with specific objectives and deliverables. The timeline spans across planning, design, development, testing, and deployment phases to ensure all components are built and delivered systematically.

1. Requirement Gathering and Analysis

Duration: 1 week

In this phase, stakeholder interviews and research were conducted to define both functional and non-functional requirements. User personas were developed, and empathy mapping was used to understand the needs of donors, volunteers, and administrators.

2. System Design

Duration: 1 week

The architecture of the system was planned using Salesforce features like custom objects, automation tools, and dashboards. The design phase included defining object relationships, role-based access, and overall system workflow.

3. Development and Configuration

Duration: 2 weeks

Custom objects such as *Venue*, *Volunteer*, *Drop-Off Point*, *Task*, and *Execution Details* were created in Salesforce. Flows, Process Builders, Email Alerts, and validation rules were configured. User interfaces were built using Lightning components.

4. **Testing Phase**

Duration: 1 week

Functional testing was performed to ensure all modules work as intended. Test cases were created for task assignment, email notifications, volunteer registration, and real-time tracking. Issues were logged and fixed before deployment.

5. **Deployment and Go-Live**

Duration: 1 week

The system was deployed to the production environment. Admins and key users were trained. The system was monitored for initial feedback, and post-deployment support was provided to ensure a smooth transition.

5.2 **Scheduling Tools and Methodology**

The project followed an **Agile-like iterative approach**, with weekly reviews and feedback sessions to ensure alignment with stakeholder expectations. Progress was tracked using **task lists and Gantt charts**, and each milestone was reviewed before moving to the next.

5.3 **Project Milestones**


- Completion of Requirement Analysis – Week 1
- Finalization of System Design – Week 2
- Custom Object & Flow Development – Week 3
- Testing & Debugging – Week 4
- System Deployment – Week 5

DEVELOPMENT PHASE

Creating Developer Account:

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


← → × salesforce.com/form/developer-signup/?d=pb ☆ | | | |



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First name	Last name
<input type="text" value="Amaraadi"/>	<input type="text" value="Aswini"/>
Job title	Work email
<input type="text" value="Student"/>	<input type="text" value="aswiniamaraadi15@g"/>
Company	Country/Region
<input type="text" value="Ideal Institute of Tech"/>	<input type="text" value="India"/>

Your org may be provisioned on or migrated to Hyperforce, Salesforce's public cloud infrastructure.








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



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

Details

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

EditDelete



Search Setup



SetupHomeObject Manager

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

Home

Object Manager

Search Setup

SETUP > OBJECT MANAGER

Task

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

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Object Limits

Record Types

Related Lookup Filters

Search Layouts

List View Button Layout

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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

Edit

Delete

Setup

Home

Object 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

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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



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

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

- Configured fields and relationships

Setup

Home

Object Manager

Search Setup

Setup > OBJECT MANAGER

Venue

Details

Fields & Relationships

8 Items, 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	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)		✓

Setup

Home

Object Manager

Search Setup

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

Edit

Delete

Setup

Home

Object Manager

Search Setup

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

Fields & Relationships

15 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

SETUP > OBJECT MANAGER
Execution Detail

Details
 Fields & Relationships

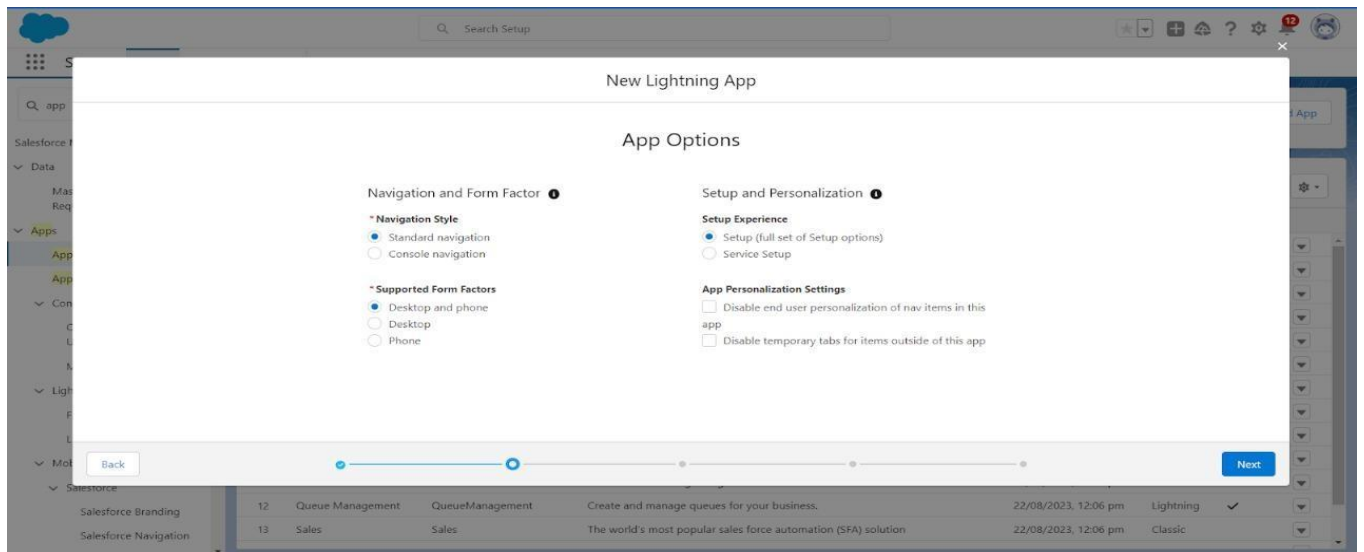
 New
 Deleted Fields
 Field Dependencies
 Set History Tracking

5 Items, Sorted by Field Label

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)		✓

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

- Developed Lightning App with relevant tabs



Available Items

Refresh Create

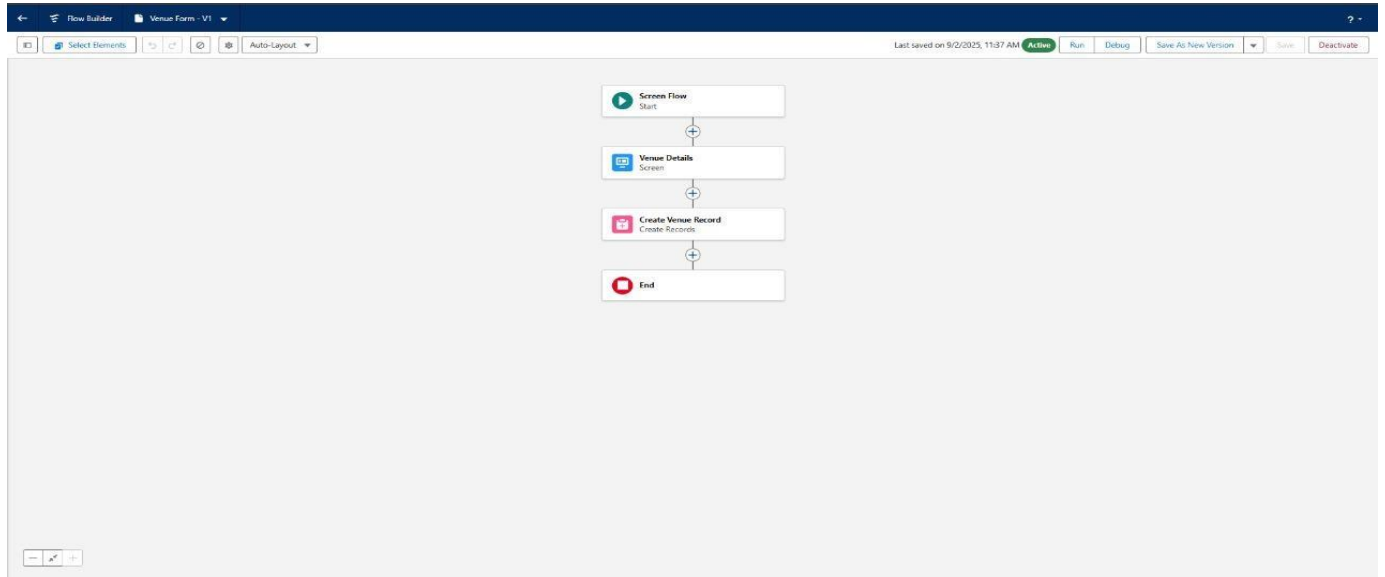
Type to filter list...

- 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

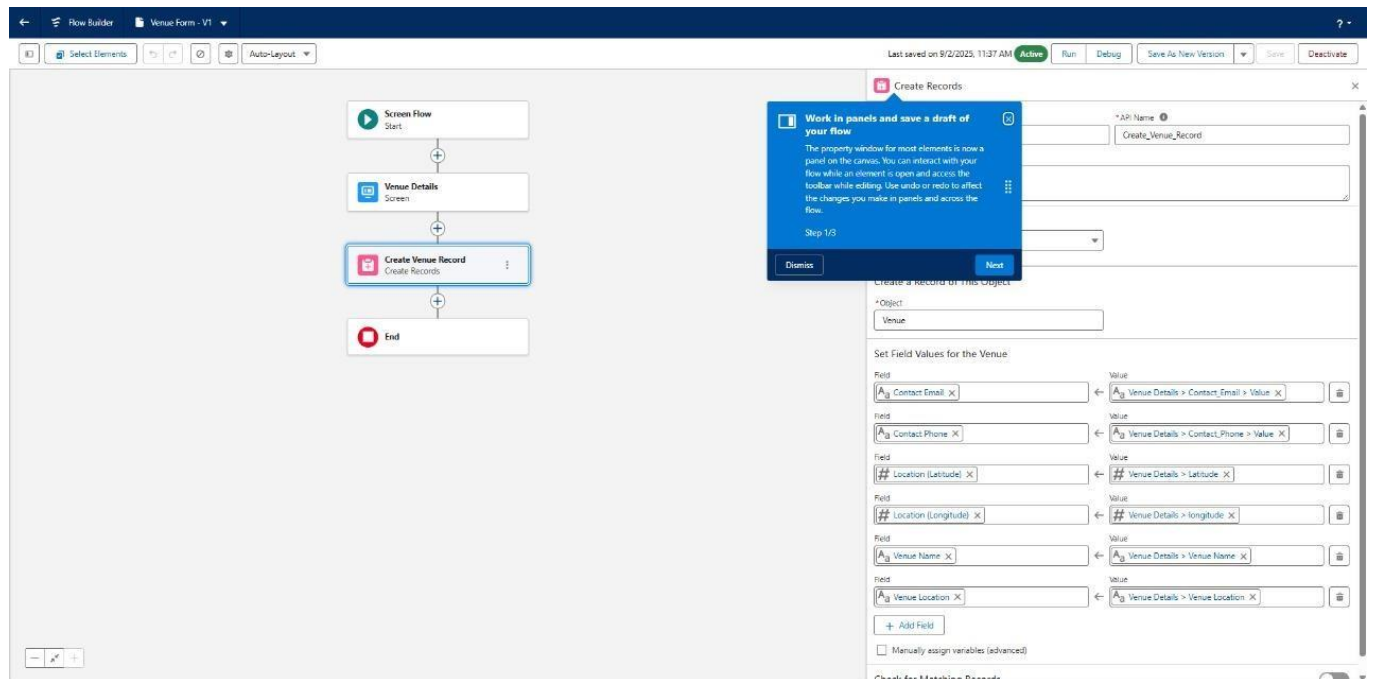
- Implemented Flows for monthly rent and payment success



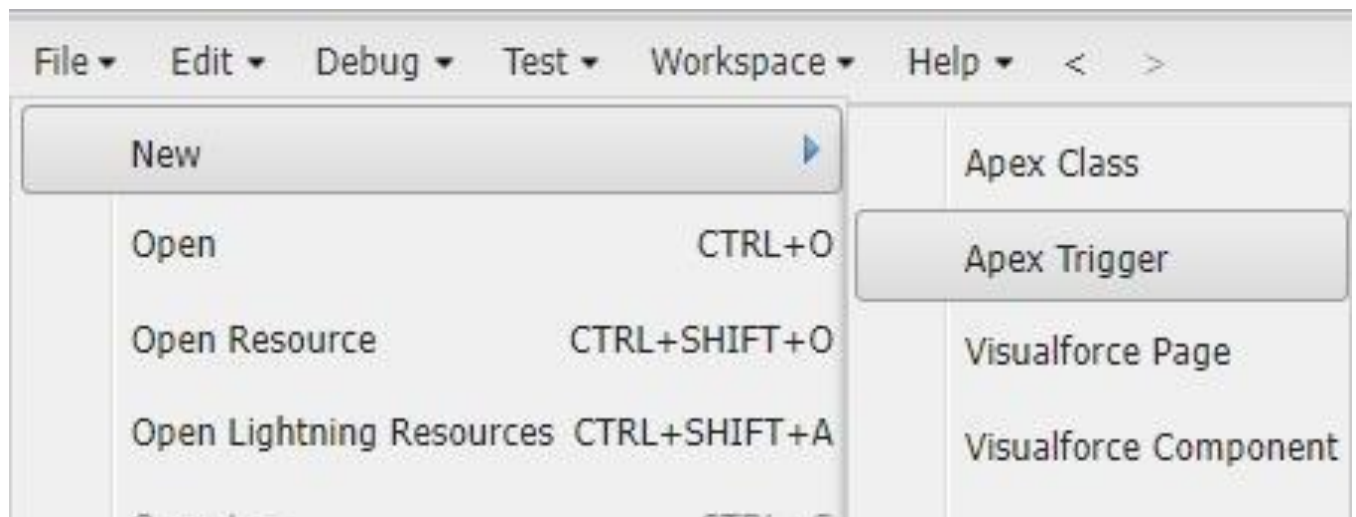
The screenshot shows the 'Edit Screen' interface for the 'Venue Form'. The form is titled 'Venue Form' and contains the following fields:

- Venue Name
- Email (with a placeholder 'you@example.com')
- Phone
- Venue Location
- Longitude
- Latitude
- Pause button

The interface includes a 'Components' panel on the left with a search bar and a list of input elements. A 'Screen Properties' panel on the right shows the 'Properties' tab with fields for 'Label' (Venue Details), 'API Name' (Venue_Details), and 'Description'. The 'Page' section shows 'Select a stage resource...'. The 'Configure' section includes 'Configure Header', 'Configure Footer', and 'Configure Screen Actions'. The bottom right corner has 'Previous', 'Finish', 'Cancel', and 'Done' buttons.



- Creating triggers



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 |
```

Logs Tests Checkpoints Query Editor View State Progress Problems

User	Application	Operation	Time	Status	Read	Size
------	-------------	-----------	------	--------	------	------

☐ Filter

- Creation of users

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"/>

New				
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

- Creation of Report on Venue with DropOff with Volunteer

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

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

Update Preview Automatically ☒

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

Row Counts ☒ Detail Rows ☒ Subtotals ☒ Grand Total ☒

- Adding venue and Drop Off point Report to the Dashboard

Report: venue and Drop Off point

☐ Use chart settings from report

Display As: 

Groups: Add group...

Columns: Add column...


Preview:

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: Record Count

Preview:



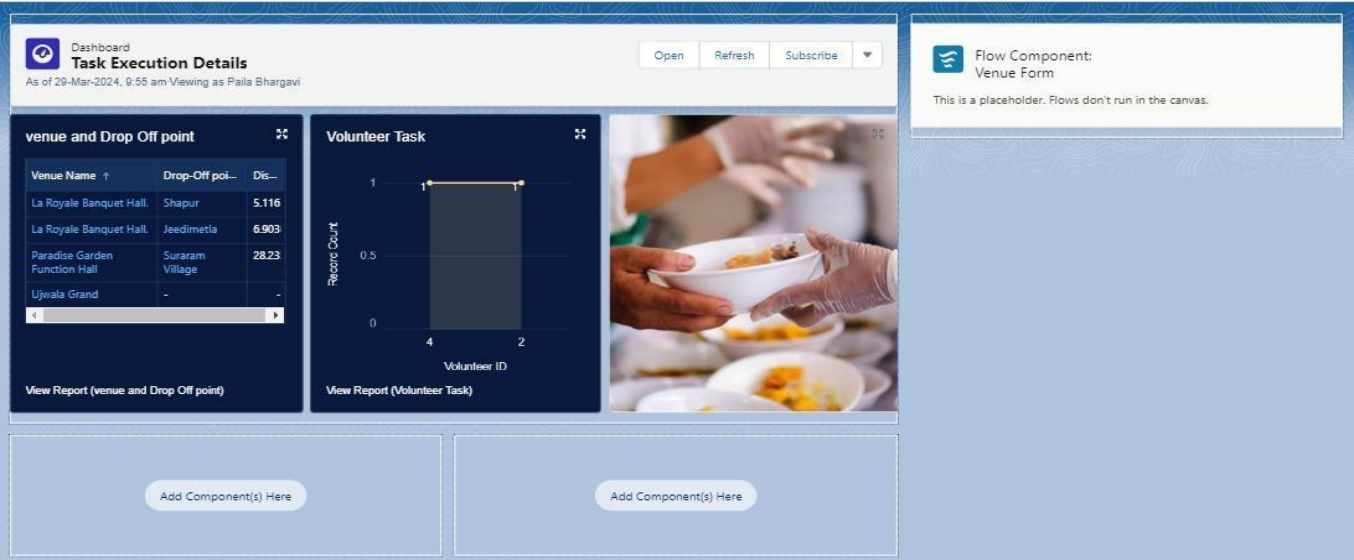
View Report (Volunteer Task)



shutterstock.com - 2343495535

Result

Output Screenshots



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

Search...

Dashboard
Task Execution Details
As of 29-Mar-2024, 9:55 am Viewing as Paila Bhargavi

Open Refresh Subscribe

venue and Drop Off point

Venue Name ↑	Drop-Off poi...	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

Record Count

Volunteer ID

View Report (Volunteer Task)

Venue Form

Venue Name

Email

you@example.com

Phone

Venue Location

Next

ADVANTAGES & DISADVANTAGES

Advantages

1. **Efficient Coordination:** Streamlines communication between donors, volunteers, and drop-off points.
2. **Reduces Food Waste:** Helps minimize food waste by redistributing surplus to those in need.
3. **Automation:** Uses Salesforce tools (Flows, Alerts, etc.) to reduce manual work and human error.
4. **Real-Time Tracking:** Provides visibility into task status, pickup/delivery updates, and execution logs.
5. **Social Impact:** Supports hunger relief efforts and strengthens community support systems.

Disadvantages

1. **Technology Dependency:** Requires access to Salesforce and internet connectivity, which may be a barrier in some regions.
2. **Initial Setup Cost:** Implementation and customization on Salesforce can be costly for small organizations.
3. **Volunteer Reliability:** The system depends heavily on volunteers, which can lead to inconsistencies in execution.
4. **Food Safety Risks:** If not handled properly, there can be concerns about the hygiene and safety of leftover food.
5. **Training Requirement:** Users need training to effectively use the system and its automated features.

Future Scope

The **Leftover Food Supply Management System** is designed with scalability and adaptability in mind. While the current version addresses the core needs of food collection and distribution, there are several opportunities for future enhancements to increase impact, improve efficiency, and expand its reach.

1. **Mobile Application Integration**

Developing a mobile app for donors and volunteers can improve accessibility, allowing real-time task updates, location tracking, and instant notifications.

2. **AI-Based Task Optimization**

Implementing AI or machine learning algorithms could optimize volunteer-task assignment based on traffic, distance, food type, and urgency.

3. **Integration with Food Safety Standards**

The system can be enhanced to include automatic checks and compliance with food safety guidelines, including digital logging of temperature and shelf-life data.

4. **Multi-Language Support**

Adding multilingual support will make the system more inclusive and usable across diverse regions and communities.

5. **Analytics and Impact Tracking**

Advanced reporting and impact tracking features (e.g., meals delivered, food saved, carbon footprint reduced) can help NGOs and partners showcase their contributions and secure funding.

6. **Third-Party Integration**

Integration with external platforms such as Google Maps (for routing), WhatsApp (for volunteer communication), and logistics APIs (for delivery tracking) can streamline operations further.

7. **Blockchain for Transparency**

Blockchain integration can ensure transparent and tamper-proof tracking of food donations from source to recipient.

CONCLUSION

The Leftover Food Supply Management System successfully streamlines the food donation and distribution process through a structured, automated Salesforce application. It enhances efficiency, coordination, and tracking accuracy for donors, volunteers, and administrators, ultimately contributing to reduced food waste and greater community impact.

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;

}