To Supply Leftover Food to Poor

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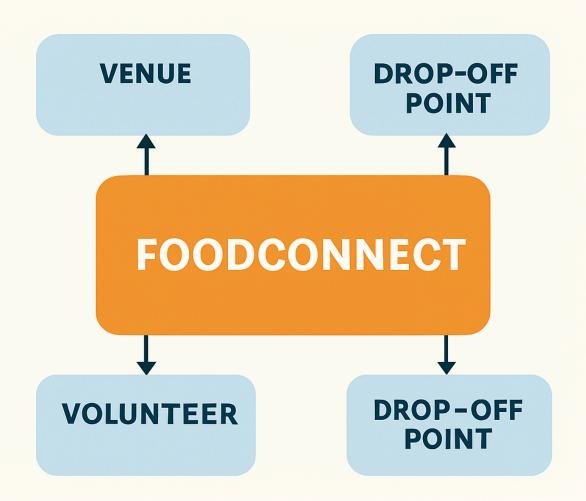
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1. INTRODUCTION

1.1 Project Overview

The **FoodConnect System** is a Salesforce-based application designed to streamline the process of **collecting and distributing leftover food**. It handles venue management, volunteer coordination, drop-off points, and execution tracking with automation features such as flows, approval processes, triggers, and reports.



1.2 Purpose

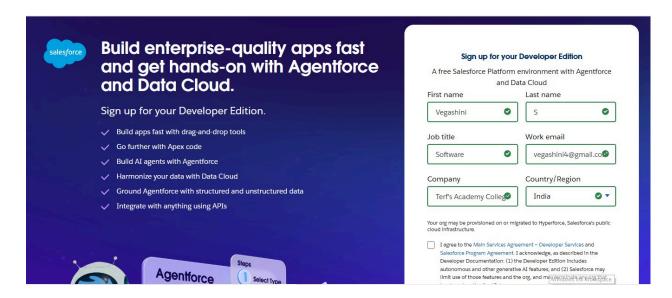
The main objective of this project is to **reduce food wastage** and ensure that surplus food is efficiently supplied to poor and needy people.

It connects venues like hotels or events with NGOs and volunteers. The system reduces manual intervention, improves coordination, and ensures food reaches people on time.

2. DEVELOPMENT PHASE

Creating Developer Account

By using this URL – https://developer.salesforce.com/signup



Created Objects

The following custom objects were created to manage leftover food supply:

- Venue Stores details of where food is available (Hotels, Restaurants, Events).
- **Drop-Off Point** Temporary storage or NGO centers for collected food.
- **Volunteer** People who help transport and distribute food.
- **Task** Assigns food collection or delivery activities.
- **Execution Details** Tracks task completion and delivery status.

Configured Fields and Relationships

- Lookup relationships between Venue → Drop-Off Point
- Master-Detail relationship between Volunteer → Execution
 Details
- Master-Detail relationship between **Task** → **Execution Details**
- Lookup from Task → Venue and Task → Drop-Off Point

Developed Lightning App with Tabs

A Lightning App named **FoodConnect** was created. It includes tabs for:

Venue

- Drop-Off Point
- Volunteer
- Task
- Execution Details
- Reports

Implemented Flow for Venue Creation

A Flow was developed to quickly capture venue details such as:

- Venue name
- Contact details
- Food category (Veg/Non-Veg/Snacks)
- Location

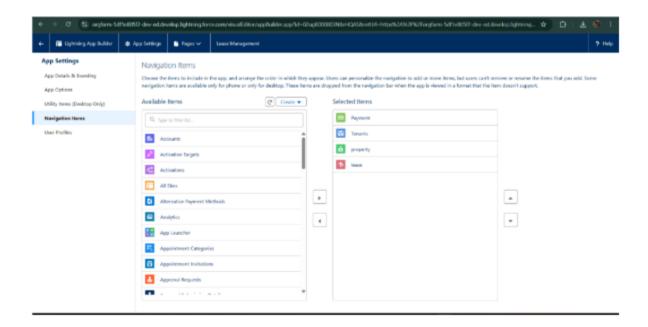
This reduces manual data entry and ensures accurate records.

Validation Rules

Validation rules were added to ensure:

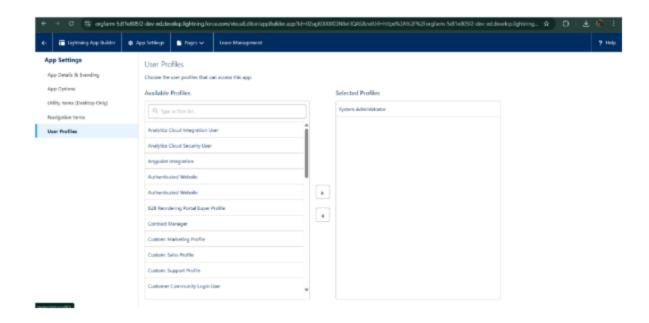
• Contact details (Phone, Email) are mandatory

- Food quantity must be greater than zero
- Volunteers must have age and contact number filled



Apex Trigger

Trigger on **Drop-Off Point** object to calculate distance automatically and assign it to the Distance field for sharing rules.



Scheduled Apex Class

A scheduled Apex class was implemented to send **daily notifications to volunteers and NGOs** about upcoming food collection tasks.

Email Templates

Custom email templates were created for:

- New food available notification
- Volunteer task assignment
- Task completion confirmation
- Feedback requests

Approval Process

Approval process for **food distribution tasks**:

- NGO Admin approves volunteer assignment
- Task is marked as active only after approval

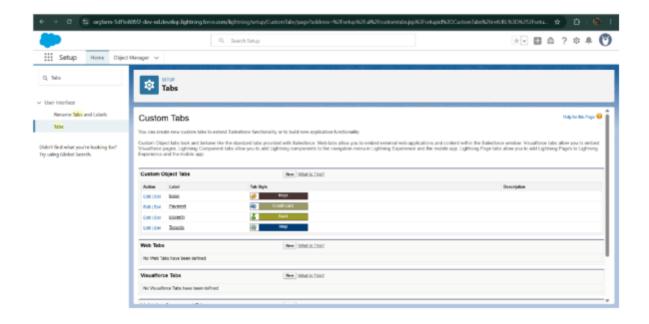
3. FUNCTIONAL AND PERFORMANCE TESTING

- Trigger validation by entering incorrect or duplicate values
- Validation Rule checking (e.g., empty contact details)
- Flow tested for venue creation
- Approval process tested through email alerts and status updates
- Reports verified for accuracy
- Dashboard tested for visualization

4. RESULTS

Output Screenshots

• Tabs for Venue, Drop-Off Point, Volunteer, Task, Execution Details



- Flow form for Venue creation
- Reports for Venue → Drop-Off → Volunteer mapping
- Dashboard showing food collection and distribution statistics
- Email notifications to volunteers and NGOs
- Trigger updates for distance calculation

5. ADVANTAGES & DISADVANTAGES

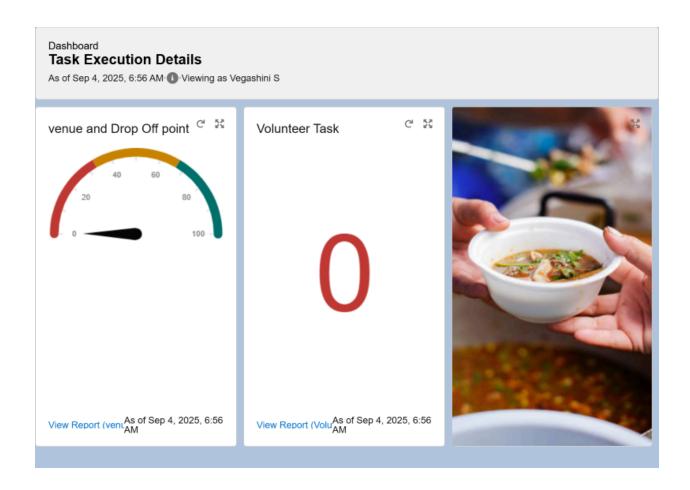
Advantages

• Reduces food wastage

- Ensures timely delivery to needy people
- Automates NGO and volunteer coordination
- Easy to track tasks and execution

Disadvantages

- Dependent on internet access
- Requires Salesforce knowledge for setup
- Volunteer availability may affect distribution



6. CONCLUSION

The **FoodConnect System** successfully streamlines leftover food management using Salesforce.

It reduces waste, improves coordination between NGOs, volunteers, and venues, and ensures food reaches the poor on time.

This project makes a strong **social impact** by using technology to solve a real-world problem.

7. APPENDIX

Sample Trigger (Drop-Off Point)

trigger DropOffTrigger on Drop_Off_Point__c (before insert) {

```
for(Drop_Off_Point__c d : Trigger.new){
   d.Distance_c = d.Distance_Calculation_c;
 }
}
Sample Scheduled Class
global class DailyFoodReminder implements Schedulable {
 global void execute(SchedulableContext sc) {
   sendDailyReminders();
 public static void sendDailyReminders() {
   List<Volunteer_c> vols = [SELECT Id, Email_c FROM
Volunteer__c];
   for(Volunteer__c v : vols){
     Messaging.SingleEmailMessage mail = new
Messaging.SingleEmailMessage();
     mail.setToAddresses(new String[]{v.Email__c});
     mail.setSubject('Food Collection Task Reminder');
     mail.setPlainTextBody('Please check your assigned tasks for
today.');
     Messaging.sendEmail(new
Messaging.SingleEmailMessage[]{mail});
    }
```