

# Project Design Phase

## Problem Solution Fit

<b>Date:</b>	03-11-2025
<b>Team ID:</b>	NM2025TMID05217
<b>Project Name:</b>	To Supply Leftover Food to Poor

### 1. Introduction

The **Problem–Solution Fit** defines how the proposed **Salesforce-based Food Donation Management System** effectively addresses the key challenges in collecting and distributing leftover food to the needy.

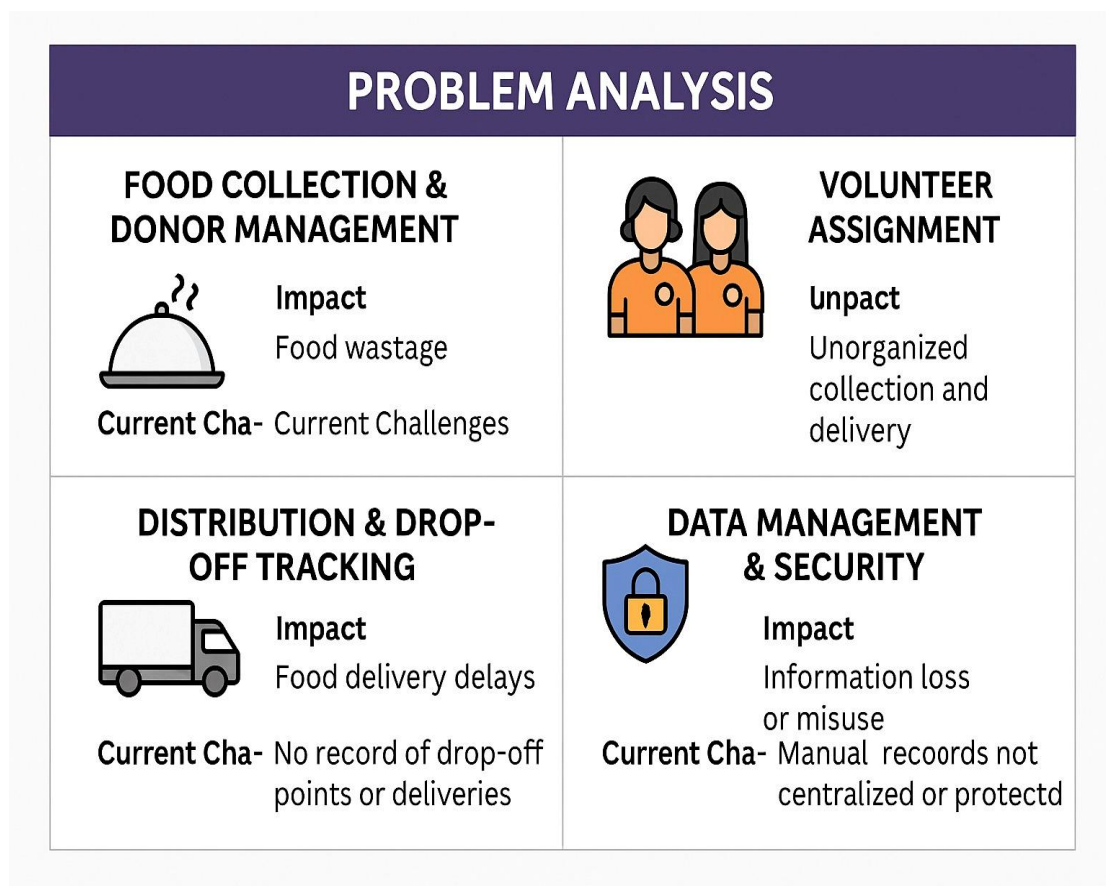
The system aims to connect **food donors (venues), volunteers, and drop-off locations** through an organized digital platform. It ensures that excess food from hotels, restaurants, and events reaches poor people safely and quickly, minimizing food wastage and improving coordination.

### **Key Objectives**

- Validate that each feature of the system directly solves real-world food donation challenges.
- Map existing manual inefficiencies to Salesforce automation and data management solutions.
- Ensure smooth coordination among donors, volunteers, and distribution points.
- Promote transparency, accountability, and efficiency in the food collection and delivery process.

## 2. Problem Analysis

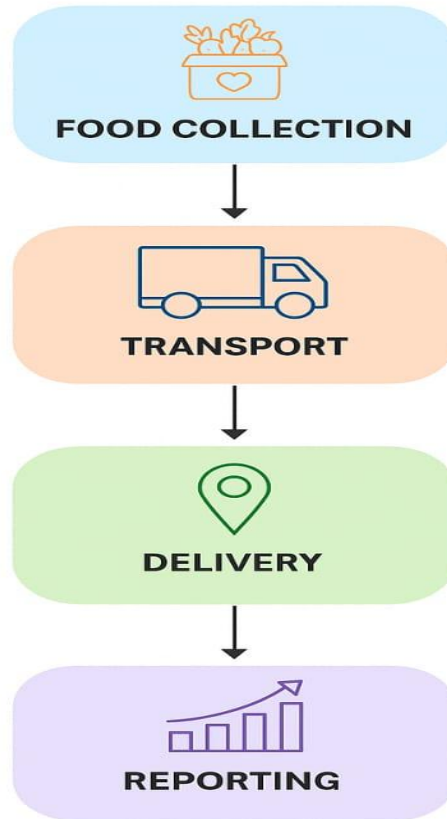
Problem Area	Impact	Current Challenges
<b>Food Collection &amp; Donor Management</b>	Food often wasted due to lack of coordination	No system to notify or track available leftover food in real time.
<b>Volunteer Assignment</b>	Unorganized collection and delivery	Volunteers are not efficiently allocated or tracked during food pickup and delivery.
<b>Distribution &amp; Drop-Off Tracking</b>	Food delivery delays, poor monitoring	No structured record of drop-off points or delivery verification.
<b>Transparency &amp; Reporting</b>	Lack of accountability and visibility	Manual tracking leads to confusion and missing data about donations.
<b>Data Management &amp; Security</b>	Information loss or misuse	Manual records are not centralized or protected against unauthorized access.



### **3. Solution Mapping**

<b>Problem</b>	<b>Proposed Solution (Salesforce Implementation)</b>	<b>Expected Outcome</b>
<b>Food Collection &amp; Donor Management</b>	Centralized Salesforce object for venues (donors) to register leftover food with details like quantity, time, and location.	Donors can easily record available food; real-time updates enable quick collection.
<b>Volunteer Assignment</b>	Automated volunteer allocation through lookup relationships and flows.	Volunteers are assigned efficiently, reducing delays and ensuring timely delivery.
<b>Distribution &amp; Drop-Off Tracking</b>	Custom “Drop-Off Point” object to record delivery locations and link them to specific venues and volunteers.	Smooth tracking of food movement from source to destination.
<b>Transparency &amp; Reporting</b>	Salesforce dashboards and custom reports to show donation details, deliveries, and volunteer activity.	Increased visibility, better performance tracking, and donor confidence.
<b>Data Management &amp; Security</b>	Role hierarchies and sharing rules to control access to donor and recipient data.	Secure data handling and privacy protection.

## TO SUPPLY LEFTOVER FOOD TO POOR



### 4. User Scenarios Demonstrating Problem–Solution Fit

#### Scenario 1: Food Collection Coordination

- **Problem:** Hotels and restaurants had no reliable way to notify volunteers about available leftover food.
- **Solution:** Venues can now log available food in Salesforce; volunteers get instant updates.
- **Outcome:** Food pickup is organized and fast, ensuring minimal wastage.

## Scenario 2: Volunteer Assignment & Tracking

- **Problem:** In manual systems, multiple volunteers often visited the same donor or missed pickups entirely.
- **Solution:** The Salesforce system automatically assigns volunteers to nearby venues and tracks their tasks.
- **Outcome:** Efficient allocation, reduced confusion, and increased volunteer productivity.

## Scenario 3: Transparency and Reporting

- **Problem:** Donors and coordinators lacked visibility into where food was distributed.
- **Solution:** Reports and dashboards display donation history, volunteer activity, and delivery success.
- **Outcome:** Complete transparency and data-based insights into the food supply chain.

## 5. Alignment with Business Goals

- **Operational Efficiency:** Automated workflows reduce manual coordination and speed up food distribution.
- **Transparency:** Real-time dashboards and activity tracking ensure trust and accountability.
- **Data Accuracy:** Validation rules and lookup fields maintain clean and consistent donor, volunteer, and delivery data.
- **Security & Compliance:** Role-based access and sharing rules safeguard donor and recipient information.
- **Social Impact:** Reduces food wastage and supports communities in need through a structured, technology-driven approach.