

## Project Title: To Supply Leftover Food to Poor

**College Name:** **MAILAM ENGINEERING COLLEGE**

**Code:** **4216**

## Department of Computer Science and Engineering

**Team Leader:**

Name: MANIMARAN G Reg No: 421622104079

## Team Members:

|  |  |
| --- | --- |
| Name: MANIKANDAN G | Reg No: 421622104077 |
| Name: RAGHUL S | Reg No: 421622104108 |
| Name: JAYARANJAN S | Reg No: 421622104057 |

Registered Email Id: [manimarangopalmec@gmail.com](mailto:manimarangopalmec@gmail.com)

Trialhead url: <https://mailamengineeringcolleg-5fb-dev-ed.develop.my.salesforce.com/>

Project Document Template

## To Supply Leftover Food to Poor

## Project Overview

The project "To Supply Leftover Food to Poor" aims to establish a streamlined system where leftover food from restaurants, cafes, and food events can be efficiently collected and redistributed to underprivileged communities. The system leverages Salesforce to connect food donors (restaurants, food vendors, etc.) with charitable organizations, NGOs, or volunteers who distribute food to those in need. This approach will ensure minimal food waste while addressing hunger in local communities.

# Objectives

 Reduce Food Waste: Minimize the amount of food discarded by businesses and individuals by redistributing leftover food to those who need it most.

 Streamline Logistics: Create an efficient system for food donation collection and distribution.

 Increase Awareness and Participation: Encourage more businesses to participate in food donation programs by providing an easy-to-use platform for managing food donations.

 Ensure Safety and Compliance: Ensure that donated food meets health and safety standards before being distributed to recipients.

 Track Donations and Impact: Use Salesforce to track the progress and impact of food donations, ensuring transparency and accountability.

# Salesforce Key Features and Concepts Utilized

 Salesforce Service Cloud: This will be used to manage communication and interactions between donors, volunteers, and organizations. Service Cloud's case management features will track each donation request, its status, and the required actions.

 Salesforce Communities: A community portal for food donors, charitable organizations, and volunteers to interact and track donation statuses in real time.

 Salesforce Lightning Components: Custom Lightning components for easy data entry, tracking, and updates on food donations, donors, and distribution efforts.

 Salesforce Reports & Dashboards: These will be used to track key metrics such as total donations, amount of food distributed, and impact measurements.

 Salesforce Workflow Automation (Flow Builder): Automation of key processes like food pickup scheduling, donor communication, and distribution reminders to improve efficiency.

 Salesforce AppExchange Integrations: Potential integration with third-party applications or services that help track food safety standards, provide real-time logistics support, or notify recipients of available food.

# Detailed Steps to Solution Design

 Requirements Gathering:

* Identify the key stakeholders (food donors, NGOs, food banks, volunteers).
* Understand the specific needs of each stakeholder and how they will interact with the platform.

 Solution Architecture Design:

* Set up Salesforce as the primary platform for managing interactions and donations.
* Design a multi-object schema for handling donations, donors, food distribution organizations, volunteers, and the food items themselves.

 Custom Object Creation:

* Create custom objects in Salesforce such as "Donation," "Donor," "Volunteer," and "Distribution Event."
* Link them to standard objects (Contacts for donors and volunteers, Cases for donation requests).

 Process Automation:

* Implement Salesforce Flows to automate tasks like food collection scheduling, notifying volunteers about the pickup, and sending reminder notifications to donors.

 User Interface Design:

* Create custom Lightning Pages for users (donors, volunteers, admins) to manage donations and track progress.

 Data Integration:

* Integrate external data sources such as food safety guidelines and transportation logistics tools.

 User Acceptance Testing (UAT):

* Conduct testing to ensure the system works as expected, gathering feedback from all users (donors, volunteers, food banks).

 Deployment:

* Deploy the solution to production after successful testing.
* Provide training and documentation for all users.

# Testing and Validation

* Functional Testing: Ensure all features of the system (donation tracking, pickup scheduling, etc.) work as expected.
* Integration Testing: Verify integrations with external services (logistics systems, food safety databases).
* User Testing: Gather feedback from real users (donors, volunteers, food banks) to ensure ease of use and smooth user experience.
* Performance Testing: Ensure the system can handle high volumes of donations and activities, especially during peak times (e.g., holidays or large events).
* Security and Compliance Testing: Ensure the system adheres to local regulations on food donations and complies with data privacy standards.

## Key Scenarios Addressed by Salesforce in the Implementation Project

1. Donor Registration: Donors can register their business and provide details on food availability via the Salesforce platform.
2. Food Donation Request Handling: As a food donation request comes in, Salesforce tracks the request and assigns it to the right volunteer or food bank based on location and need.
3. Pickup and Distribution Scheduling: Salesforce automates pickup scheduling for volunteers and allows real-time updates on the status of each pickup.
4. Impact Tracking: Salesforce reports track the amount of food donated, the number of people helped, and other metrics, helping to demonstrate the project’s impact to stakeholders and donors.
5. Health and Safety Compliance: Salesforce workflows ensure that food donations meet necessary health and safety standards before being distributed.

# Conclusion

The "To Supply Leftover Food to Poor" project offers a powerful solution to tackle both food waste and hunger. By leveraging Salesforce’s suite of tools, the project ensures that food donations are effectively tracked, efficiently managed, and safely distributed to those in need. The integration of automation, custom workflows, and reporting capabilities will streamline operations and enable all stakeholders to collaborate seamlessly. Ultimately, the use of Salesforce in this project will not only improve the food redistribution process but will also provide measurable impact, allowing stakeholders to see the real difference being made in the fight against hunger.