# NAAN MUDHALVAN PROJECT REPORT

## SB8067 - SALESFORCE DEVELOPER
## “TO SUPPLY LEFT OVER FOOD TO POOR“


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**NOV- DEC 2025**

# ANALYSIS PHASE – Leftover Food Supply to Poor (Salesforce Project)

## 1. Understanding the Problem

- Large amounts of food are wasted daily from restaurants, events, and households.
- Many poor and homeless people struggle to get even one meal a day.
- There is no common platform to link **food donors** to **people in need** quickly.
- Lack of coordination causes delay → Food gets spoiled before delivery.
- Manual work makes tracking donation and distribution difficult.

## 2. System Requirements Identified

### Functional Requirements

✓ Allow donors to register leftover food details
✓ Store drop-off locations and donor contact information
✓ Automatically calculate and store distance for distribution
✓ Assign records to nearest volunteer or NGO
✓ Track food donation data using dashboards
✓ Automate processes using Triggers and Flows

#### Non-Functional Requirements

✓ System must be easy to use (user-friendly)
✓ Real-time access for volunteers
✓ Data must be secure and accessible based on distance/location
✓ Scalable to handle many donors and receivers

## 3. Key Users (Stakeholders)

| User Type | Role |
|---|---|
| Donors (Hotels, Halls, People) | Submit leftover food details |
| Volunteers/NGO | Collect and distribute food |
| Admin | Monitor data and system |

| | |
|---|---|
| Beneficiaries (Needy people) | Receive food support |

### 4. Technology Selection Justification

| Technology | Purpose |
|---|---|
| Salesforce Platform | Central system to store & manage data |
| Custom Objects | Store donor & drop-off information |
| Apex Trigger | Auto-store calculated distance |
| Flow Builder | Capture user inputs through a form |
| Sharing Rules | Assign data based on distance |
| Reports & Dashboard | Visualize donation statistics |
| Cloud Access | Works from anywhere on any device |

## 5. Data Requirements

**Drop-Off Point Object Fields**

- Donor Name
- Phone Number
- Food Details
- Drop Location
- Distance
- Distance Calculation

**Automation Needs**

- Copy distance formula value into actual distance field (Trigger)
- Share records to nearest volunteer (Sharing Rules)

## 6. Feasibility Study

| Feasibility Type | Result |
|---|---|
| Technical | ✅ Possible using Salesforce automation tools |
| Operational | ✅ Easy for users and volunteers |
| Economical | ✅ No cost using Trailhead/Playground |
| Social Benefit | ✅ Reduces hunger and food waste |

## 7. Expected Outcomes

✓ Faster food distribution
✓ Less food wastage
✓ Better coordination between donors and volunteers
✓ Transparent data tracking
✓ Social impact through technology

## 8. Risks & Mitigation

| Risk | Solution |
|---|---|
| Incorrect distance data | Use automated calculation |
| Delayed response | Assign nearest volunteer via sharing rules |
| Food spoilage | Quick notification & data access |
| Data overload | Dashboard filters & structured objects |

## End Statement for Documentary

*"Through proper analysis, we designed a system that connects surplus food to those in need, using the power of Salesforce and automation to make hunger a solvable problem."*