

## Requirement Analysis

### Data Flow Diagrams and User Stories

Date	02 NOVEMBER 2025
Team ID	NM2025TMID01349
Project Name	To Supply Leftover Food to Poor
Maximum Marks	4 Marks

#### **Level 0 – System Context Overview**

##### **Flow:**

[Food Donor] → (Central Salesforce Platform) → [Volunteer / NGO Partner] → [Beneficiaries]

##### **Explanation:**

- Food donors log details about surplus food into the Salesforce platform.
- The system automatically identifies and assigns an available volunteer for pickup.
- Assigned volunteers collect and transport the food to the designated NGO or distribution point.
- All collection and delivery updates are recorded in real time within Salesforce for tracking and reporting.

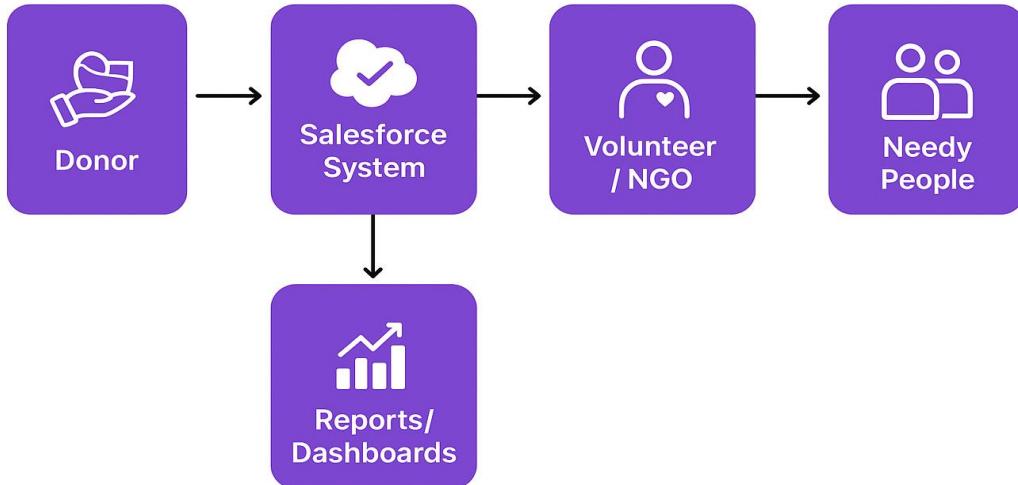
##### **Key Data Repositories:**

- **Donor Records** – Stores donor and contact details.
- **Food Inventory** – Tracks type, quantity, and expiry of donated food.
- **Volunteer Details** – Maintains volunteer information and assigned deliveries.
- **Distribution Logs** – Records delivery completion and receiver details.
- **Analytics Module** – Provides insights through reports and dashboards.

##### **Primary Data Interactions:**

1. Donor submits food donation details.
2. System triggers volunteer assignment for pickup.
3. Volunteer updates delivery and completion status.
4. Dashboard visualizes live data for administrators.

# Food Distribution Process



## User Roles and System Flow Explanation

### 1. Donor (Food Provider)

- Logs into the Salesforce portal.
- Enters key details such as food type, quantity, and pickup location.
- Submits the donation request for processing.
- Receives an acknowledgment and assigned volunteer information.

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### 2. Volunteer

- Accesses the system through the Volunteer profile.
- Views nearby food collection tasks available for pickup.
- Accepts a suitable task and collects the food from the donor's location.
- Updates the delivery status once the food is successfully handed over to the NGO or beneficiaries.

### **3. NGO / Administrator**

- Oversees all donation and delivery operations through the dashboard.
  - Validates donation and volunteer data entries for accuracy.
  - Generates periodic analytical reports (daily, weekly, monthly).
  - Ensures transparency and identifies zones with high or low food supply.
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### **4. Salesforce System (Automation Layer)**

- Uses **Flow Builder** or **Apex Triggers** to automatically assign volunteers to donation requests.
  - Sends real-time email or in-app notifications to donors and volunteers.
  - Continuously updates all object records in the system database.
  - Displays live dashboards summarizing donations, active volunteers, and delivery success rates.
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### **Summary**

The integrated **Data Flow and User Interaction Model** illustrates how each role—**Donor, Volunteer, NGO, and the System**—collaborates through Salesforce.

This structured workflow enables **real-time tracking, process automation, and transparent food distribution**, ensuring that surplus food reaches those in need efficiently and responsibly.