Requirement Analysis
Data Flow Diagrams and User Stories

Date	02 NOVEMBER 2025
Team ID	D62F116B4D1897894BB441A9447B6D32
Project Name	To Supply Leftover Food to Poor
Maximum Marks	4 Marks

Level 0 – Context Diagram

```
[Donor] ---> (Salesforce System) ---> [Volunteer / NGO] ---> [Needy People]
```

Explanation:

- Donors provide leftover food details to the Salesforce system.
- The system processes and assigns volunteers to collect the food.
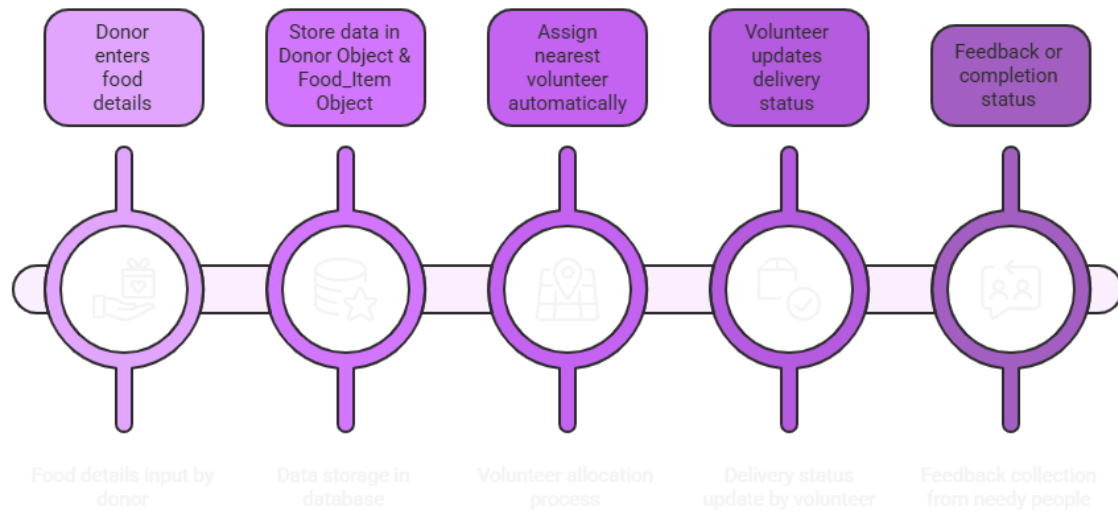- Volunteers deliver it to the needy, and records are updated in Salesforce.

Data Stores:

- Donor Object
- Food_Item Object
- Volunteer Object
- Distribution Record
- Reports/Dashboards

Main Data Flows:

1. Donor → Food Information
2. Food Item → Volunteer Assignment
3. Volunteer → Delivery Status
4. System → Dashboard Reports

Streamlining Food Donation and Distribution

Donor enters food details	Store data in Donor Object & Food_Item Object	Assign nearest volunteer automatically	Volunteer updates delivery status	Feedback or completion status

Food details input by donor	Data storage in database	Volunteer allocation process	Delivery status update by volunteer	Feedback collection from needy people

. Donor (Food Provider)

1. Logs into Salesforce portal.
2. Fills in details: type of food, quantity, location.
3. Submits the request.
4. Receives confirmation and assigned volunteer details.

2. Volunteer

1. Logs into system using Volunteer profile.
2. Views available food collection requests near their location.
3. Accepts a task.
4. Collects food and updates delivery status after distribution.

3. NGO / Admin

1. Monitors all donation requests and volunteer activities.
2. Validates data entries.
3. Generates reports and dashboards (daily/weekly/monthly).
4. Ensures transparency and identifies areas of high demand or shortage.

4. System (Salesforce Automation)

- Automatically assigns volunteers using **Flow Builder** or **Apex Trigger**.
- Sends **email notifications** to donors and volunteers.
- Updates records in real-time.
- Generates **dashboards** showing total donations, volunteers, and successful deliveries.

Summary

The **Data Flow Diagram** and **User Flow** together show how data moves within the system and how each user (Donor, Volunteer, NGO) interacts with the Salesforce platform.
This ensures **efficiency**, **transparency**, and **automation** in managing surplus food distribution.