



## Requirement Analysis

Date	07 NOV 2025
Team ID	NM2025TMID06803
Project Name	Garage Management System
Maximum Marks	4 Marks

Data Flow Diagrams:

A **Data Flow Diagram (DFD)** is a visual representation of how data moves through a system. It illustrates the flow of information between processes, external entities, and data stores — helping understand how the system functions.

In the project “*To Supply Leftover Food to Poor,*” the DFD depicts how leftover food details are collected, processed, and delivered to needy people. The diagram shows interactions between **food donors, NGOs/volunteers, and the system database**. When donors post leftover food details, the system stores the data, alerts nearby NGOs or volunteers, and manages the pickup and delivery flow until the food reaches poor communities.

This helps visualize the workflow of donation requests, availability checks, volunteer assignments, and delivery confirmations, ensuring transparency and efficiency.

### Example (Context-Level DFD):

- **External Entities:** Donor, Volunteer, NGO/Receiver
- **Processes:** Food Registration, Availability Notification, Volunteer Assignment, Delivery Confirmation
- **Data Stores:** Donor Database, Food Listing, Volunteer Records, Delivery Log

User Stories:

User stories describe how different users interact with the system to fulfill their roles in food collection and distribution. Each story focuses on a specific goal, acceptance criteria, and delivery priority.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority Release
Donor	Food USN-1 leftover food donors to enter High Sprint- ( <b>Restaurant/Hotel</b> ) Registration details so that it food type, 1		As a food donor, The system I want to register should allow	can be collected quantity, and and distributed to availability	

User Type	Functional Requirement (Epic)	USN-2	want to get notifications about available food near my area so that I can collect it within a defined radius. deliver it on time.
Volunteer	Food Collection & Delivery	USN-3	As an NGO coordinator, I want to verify the food and mark verification before delivery to ensure it is safe for consumption. As a system, I automatically notify nearby registered volunteers.
NGO/Coordinator	Verification	USN-4	The system should record the food quality - food quality approval for delivery. As a notifications system, I should reach all volunteers.
System (Auto Process)	Notification	USN-5	The system should instantly notify NGOs when new food donations are listed. submission.
Receiver (Needy People)	Feedback & Confirmation User Story / Acceptance		As a receiver, I want to provide feedback after receiving food so that service can be improved.
Story	Task Criteria		Feedback should be stored and viewable by admins for analysis.
	Priority Release Number		Medium Sprint-3
	the poor.		time.
	As a volunteer, I		

This structure ensures that every user's needs are captured clearly — from donors contributing food, to volunteers collecting and distributing it, and NGOs verifying its quality.

The DFD and user stories together establish the foundation for building a reliable, sustainable food distribution network.