

DATA FLOW DIAGRAM & USER STORIES

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Team ID	LTVIP2025TMID31579
Project Name	To Supply Leftover Food to Poor
Maximum Marks	

What is a Data Flow Diagram (DFD)?

A Data Flow Diagram shows how data moves throughout the system—from donors submitting leftover food, to volunteers collecting it, to NGOs distributing it to those in need.

PROCESS FLOW

Process 1 – Food Donation Submission

- **Input:** Food Donation Form (Donor)
- **Flow:**
 - FoodItem record created
 - Validate donation info
 - Notify nearby volunteer for pickup
 - Update status to "Pending Pickup"

Process 2 – Volunteer Assignment

- **Input:** Available Volunteer
- **Flow:**
 - Match volunteer to nearby donation
 - Create DeliveryRecord
 - Notify volunteer of pickup time and location

Process 3 – Food Pickup & Delivery

- **Input:** Volunteer logs pickup
- **Flow:**
 - Update DeliveryRecord: Pickup confirmed
 - Volunteer delivers food to NGO
 - Delivery marked as "Completed"

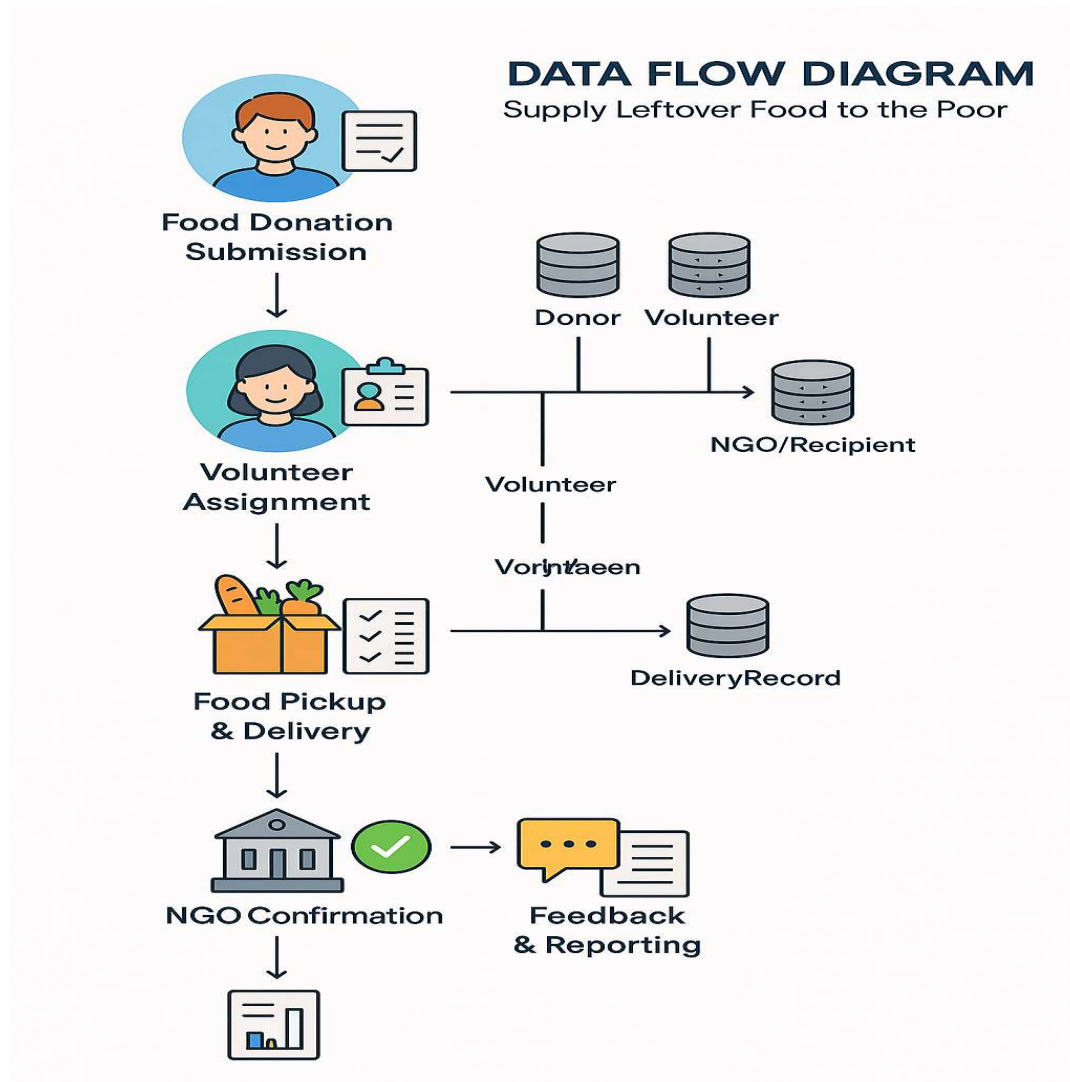
Process 4 – NGO Confirmation

- **Input:** Food received at NGO center

- **Flow:**
 - NGO confirms receipt
 - FoodItem status = Delivered
 - Generate impact metric (meals served)

Process 5 – Feedback & Reporting

- **Input:** Optional feedback from volunteers/NGOs
- **Flow:**
 - Create Feedback record
 - Admin dashboard updated
 - Monthly impact report generated



Data Stores:

- Donor
- FoodItem

- Volunteer
 - NGO/Recipient
 - DeliveryRecord
 - Feedback
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USER STORIES

Donor-Facing Stories:

- **As a donor**, I want to submit leftover food easily via mobile/web, so I can reduce food waste.
Acceptance Criteria: Submission form saves FoodItem and confirms receipt.
 - **As a donor**, I want to receive confirmation once food is delivered.
Acceptance Criteria: Notification sent when delivery status is marked "Completed".
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Volunteer-Facing Stories:

- **As a volunteer**, I want to get alerts about nearby pickups, so I can help when available.
Acceptance Criteria: Volunteer receives SMS/app notification with food details.
 - **As a volunteer**, I want to log pickup and delivery times to track my tasks.
Acceptance Criteria: DeliveryRecord updates status and timestamps.
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NGO/Recipient-Facing Stories:

- **As an NGO**, I want to receive food on time and log feedback.
Acceptance Criteria: System stores receipt confirmation and food quality notes.
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Admin/System Stories:

- **As an admin**, I want to monitor food flows and delivery efficiency via dashboard.
Acceptance Criteria: Real-time delivery status, average time-to-deliver metrics.
- **As an admin**, I want automated reminders to volunteers for assigned pickups.
Acceptance Criteria: Scheduled flow runs and sends notification.