

# Project Design Phase-II

## Data Flow Diagram

Date	4 Nov 2025
Team ID	NM2025TMID02156
Project Name	To supply leftover food to poor
Marks	4 Marks

### 1. Context (Level 0 DFD)

This is the high-level overview showing the system as a single process.

#### Entities:

- **Food Donor** → provides leftover food
- **Volunteers** → pick up and deliver food
- **Recipients / NGOs / Poor People** → receive the food

#### Process:

- **Food Distribution System** (main system)

#### Data Stores:

- None at this level (we keep it simple)

#### Flow:

- Donor → Food Distribution System → Volunteer → Recipient

- Feedback / Confirmation from Recipient → Food Distribution System → Donor

## 2. Level 1 DFD

This breaks the system into main functional components.

*Processes:*

### 1. Food Request / Registration

- a. Donor registers available food
- b. Input: Food details (type, quantity, location, time)
- c. Output: Food request logged

### 2. Volunteer Assignment

- a. System assigns nearest available volunteer
- b. Input: Food request
- c. Output: Assignment notification

### 3. Pickup & Quality Check

- a. Volunteer picks up food and checks quality
- b. Input: Food from donor
- c. Output: Quality confirmation

### 4. Delivery

- a. Volunteer delivers food to recipient/NGO
- b. Input: Picked up food
- c. Output: Delivery confirmation

### 5. Feedback & Reporting

- a. System collects feedback and generates report
- b. Input: Recipient confirmation / photos
- c. Output: Notification to donor & system update

**Data Stores:**

- **Food Request DB** → stores food details
- **Volunteer DB** → stores volunteer info
- **Delivery Log** → tracks pickup and delivery info

### 3. Data Flow Example

Process	Input	Output	Data Store
Food Request / Registration	Food info from donor	Food request logged	Food Request DB
Volunteer Assignment	Food request	Volunteer assignment notification	Volunteer DB
Pickup & Quality Check	Food	Quality confirmation	Delivery Log
Delivery	Food & assignment	Delivery confirmation	Delivery Log
Feedback & Reporting	Recipient feedback	Notification to donor	Delivery Log

### 4. Visual Representation

If you want, I can **draw a clean DFD diagram** for this with **boxes for processes, arrows for data flow, and cylinders for data stores**, so you can use it directly in your report or presentation.

