

## Project Design Phase-II

### Data Flow Diagram & User Stories

<b>Date</b>	01 November 2025
<b>Team ID</b>	NM2025TMID07455
<b>Project Name</b>	To Supply Leftover Food to Poor
<b>Maximum Marks</b>	4 Marks

### Data Flow Diagrams:

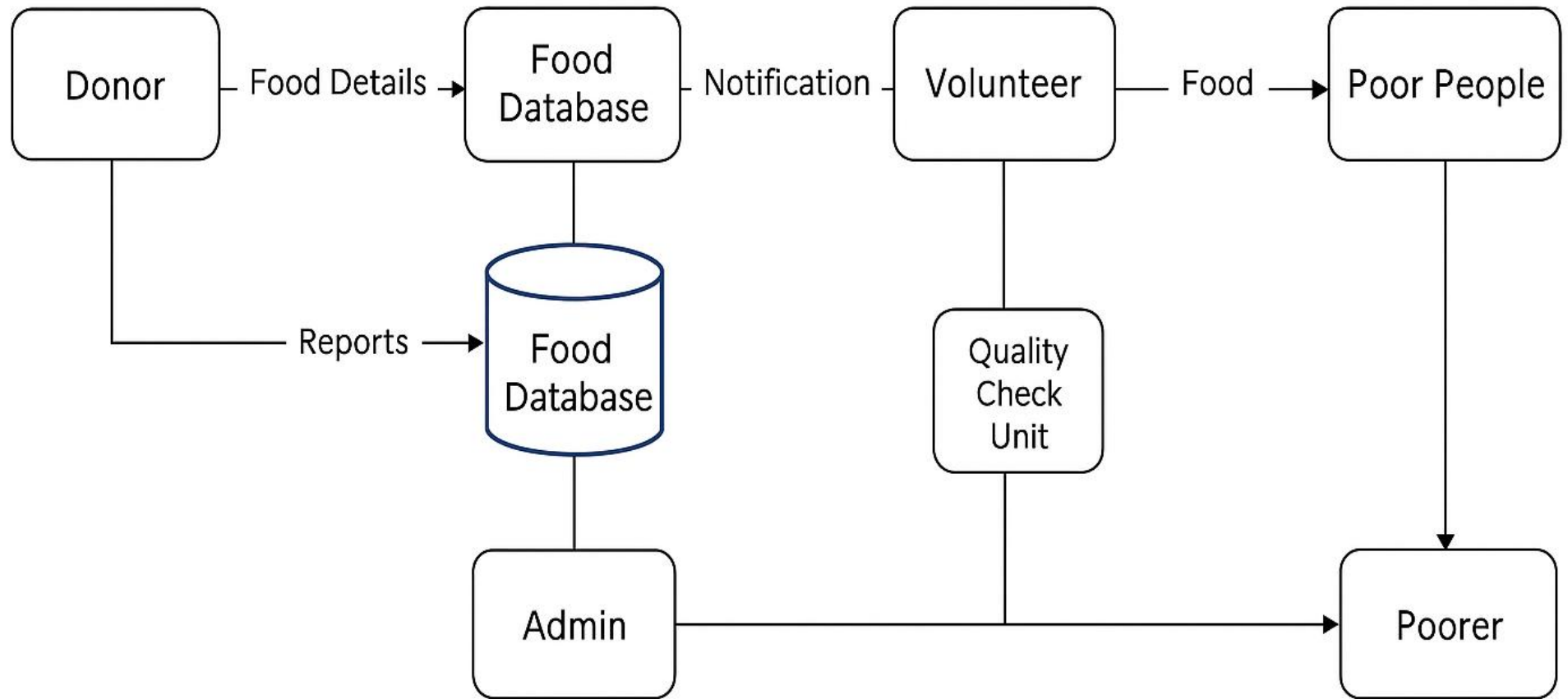
A Data Flow Diagram (DFD) represents how data moves through the system.

It shows how food donation information is collected, processed, and distributed among users (donors, NGOs, volunteers, and the admin). The DFD also highlights the flow of data such as donor details, food availability, volunteer assignment, and delivery tracking.

In the project “To Supply Leftover Food to Poor”, the DFD explains how donors register, how leftover food details are submitted, how the system assigns volunteers based on location, and how delivery and feedback are managed.

### Example:

- Donor submits food details (type, quantity, pickup location, time).
- System stores details in the Food Database.
- Matching Module checks for available volunteers or NGOs nearby.
- Volunteer receives notification to collect food.
- Quality Check Unit verifies hygiene and approves delivery.
- Food Delivery is completed to identified poor areas or shelters.
- Admin monitors all records and generates reports.



## User Stories:

User stories define what different types of users expect from the system, described in simple goal-based language. In this project, they ensure that leftover food is collected, verified, and delivered efficiently.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Donor	User Management	USN-1	As an admin, I want to delete a user from the system.	The system should allow deletion only if the user is not assigned to any incident.	High	Sprint-1
Volunteer / NGO	Validation before Deletion	USN-2	As a system, I must check if the user is linked to any incident before processing a delete request.	Deletion proceeds only if no incident is assigned; else, it should be blocked.	High	Sprint-1
System (Auto-Check)	Alert Notification	USN-3	As an incident manager, I want to receive an alert if a user with assigned incidents is requested for deletion	System shows a warning or alert about linked incidents before deletion.	Medium	Sprint-2
Admin	Monitoring & Reporting	USN-4	As an admin, I want to monitor donations and generate reports of food collected and delivered daily.	System should allow admin to view records and download reports.	Medium	Sprint-2
Recipient (Poor / Shelter)	Feedback	USN-5	As a recipient, I want to give feedback after receiving food to ensure quality and transparency.	System should allow recipients to provide simple feedback via NGO or app.	Low	Sprint-3

## DFD Summary

The DFD demonstrates the flow of food donation data:

- From donors → database → volunteers → recipients,
  - With system validations, notifications, and reports managed by the admin.
- It ensures smooth coordination, minimizes food wastage, and provides transparent tracking for all stakeholders.