Requirement Analysis

Date	27 June 2025
Team ID	NM2025TMID04740
Project Name	To Supply Leftover Food to Poor
Maximum Marks	4 Marks

Introduction:

This section introduces the purpose of the requirement analysis — to identify, gather, and define all the functionalities, constraints, and performance expectations of the project *"To Supply Leftover Food to Poor."*
The goal is to ensure the final system meets the needs of users such as donors, volunteers, and administrators.

Purpose of the System:

The system is designed to create a platform using Salesforce to collect, manage, and distribute leftover food from restaurants and events to poor people through assigned volunteers.
It ensures transparency, efficiency, and real-time tracking of food donations.

Scope of the Project

- The project focuses on managing data for food donors (venues), volunteers, and drop-off points.

- It provides automated task assignments, report generation, and dashboard analytics.

- The system is cloud-based, meaning it can be accessed anywhere and used by NGOs, donors, and volunteers.

System Requirements:

Functional Requirements:

S.No	Requirement	Description
1	Donor Management	Add, edit, and view donor (venue) details.
2	Volunteer Management	Assign volunteers to specific venues.
3	Drop-Off Point Management	Record and update distribution points for food delivery.
4	Food Collection Tracking	Monitor collection status and completion.
5	Report Generation	Generate reports showing donor-volunteer-drop-off relationships.
6	Dashboard View	Display real-time statistics for users and admins.

Non-Functional Requirements:

Category	Requirement Description
Performance	The system should process and display data quickly without delays.
Security	Only authorized users (donors, volunteers, admins) can access their data.
Usability	The interface must be simple and user-friendly.
Scalability	The system can support more donors and volunteers as it grows.
Availability	The platform should be available online 24/7 via Salesforce cloud.

User Requirements:

The system must satisfy the needs of the following users:

- Donors: Register and upload food donation details.
- Volunteers: View assignments and delivery tasks.
- Administrators: Monitor overall operations and generate reports.

Hardware and Software Requirements:

Category	Specification
Hardware	Computer / Laptop with minimum 4GB RAM, Internet connection
Software	Salesforce Developer Edition, Web Browser (Chrome/Edge)
Operating System	Windows 10 / macOS
Network	Stable Internet connection

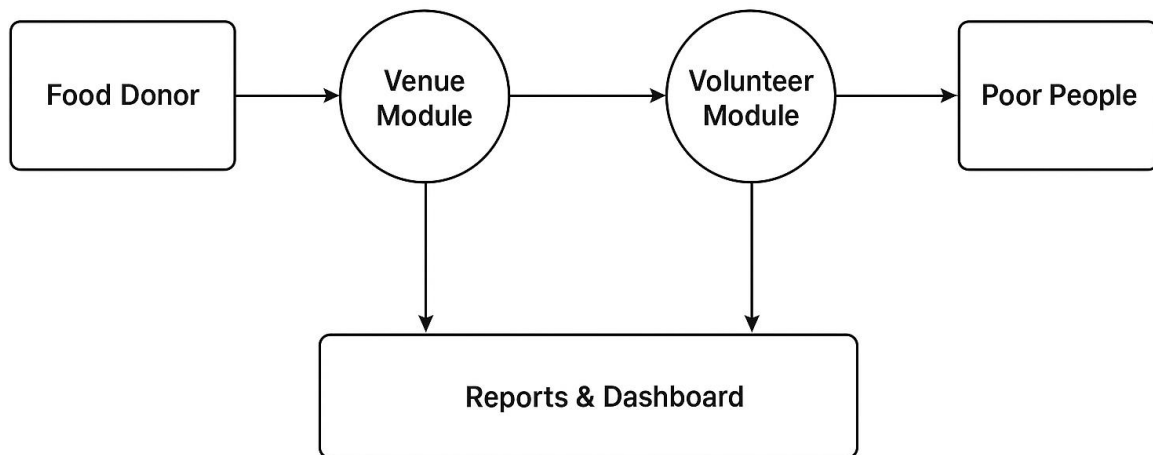**System Models and Diagrams:**

Use Case Diagram:

Actors:

- Donor
- Volunteer
- Admin

Use Cases:

- Register Venue
- Assign Volunteer
- Collect Food
- Deliver Food
- Generate Report

Data Flow Diagram (DFD - Level 0):

```
┌────────────┐      ╭─────────╮       ╭──────────╮      ┌────────────┐
│            │      │  Venue  │       │Volunteer │      │            │
│ Food Donor │ ───▶ │ Module  │ ────▶ │  Module  │ ───▶ │ Poor People│
│            │      │         │       │          │      │            │
└────────────┘      ╰─────────╯       ╰──────────╯      └────────────┘
                         │                 │
                         ▼                 ▼
              ┌──────────────────────────────────┐
              │       Reports & Dashboard         │
              └──────────────────────────────────┘
```

System Analysis

- The system is analyzed to determine data input and output requirements.

- Relationships between objects are defined to maintain consistency.

- The system flow ensures that each donation is traceable from start to finish.

Feasibility Study:

Aspect	Analysis
Technical Feasibility	Salesforce provides all necessary tools for automation and data management.
Operational Feasibility	Users can easily learn and operate the system through simple UI.
Economic Feasibility	The system uses free Salesforce developer tools, reducing cost.

Conclusion

The Requirement Analysis phase ensures a clear understanding of the system's objectives, user needs, and technical specifications.
For *"To Supply Leftover Food to Poor,"* these requirements establish the foundation for successful system design, development, and implementation using Salesforce.