

PHASE 3 – PROJECT DESIGN PHASE

DATE	03 November 2025
TEAM ID	NM2025TMID03545
PROJECT NAME	To Supply Leftover Food to Poor
MAXIMUM MARKS	4 Marks

The architecture of **FoodConnect** is designed using Salesforce's **multi-tier cloud structure**, ensuring scalability, automation, and ease of access.

Architecture Layers:

1. User Interface Layer (Frontend)

- Users interact through the Salesforce Lightning app interface.
- Donors enter food details; volunteers view and accept tasks.

2. Application Logic Layer:

- Managed using **Apex triggers**, **Flows**, and **Validation Rules**.
- Controls automation, notification, and status updates.

3. Database Layer:

- Salesforce **Custom Objects** store records for Donors, Food Donations, Volunteers, and Deliveries.
- Relationships between objects ensure data integrity.

4. Reporting Layer:

- Uses **Salesforce Reports and Dashboards** to display donation statistics and performance metrics.

Data Flow Summary:

1. Donor creates a “Food Donation” record.
2. Trigger executes and notifies volunteer group.
3. Volunteer updates status (Picked/Delivered).
4. Admin verifies and logs completion in reports.

SYSTEM ARCHITECTURE OVERVIEW

