

Project Design Phase

Solution Architecture

Date	31 OCTOBER 2025
Team ID	NM2025TMID02077
Project Name	To Supply Leftover Food to Poor
Maximum Marks	4 Marks

Solution Architecture:

Goals of the Architecture:

- Develop an efficient digital system for redistributing leftover food to the needy.
- Ensure transparency, food safety, and accountability across the donation chain.
- Promote community participation and reduce environmental impact from food waste.

Key Components:

- Central web application for donors, volunteers, and drop-off point management.
- Real-time tracking and notification system for coordination.
- Secure database for storing and analyzing food distribution data.
- Volunteer management and feedback collection modules.

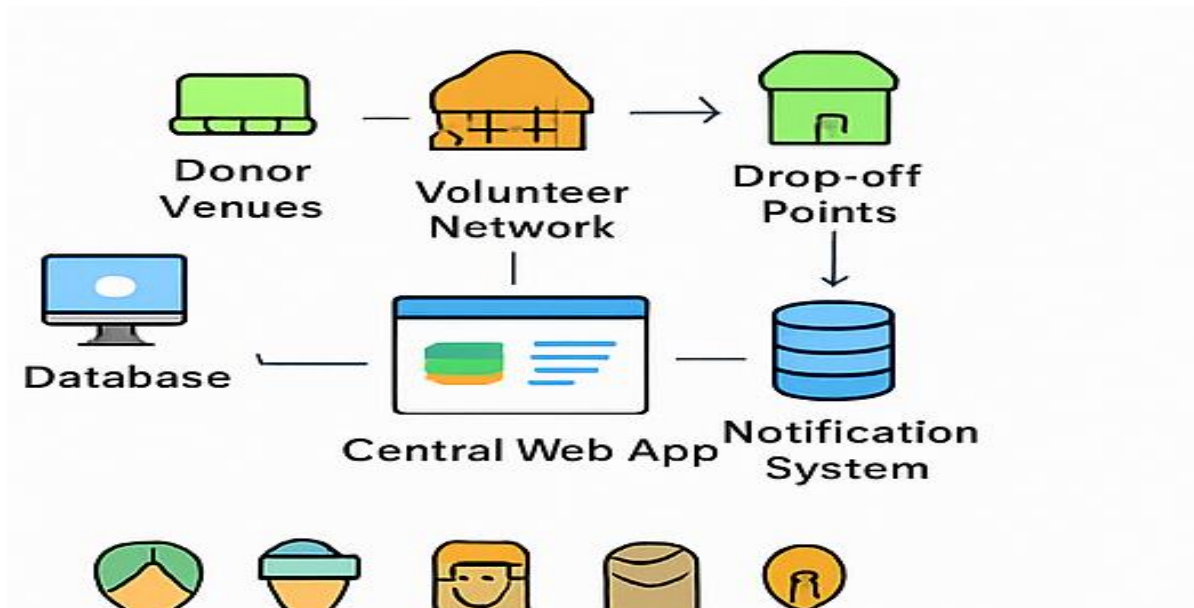
Development Phases:

- Planning and requirement analysis.
- System and UI/UX design.
- Development of web platform and database integration.
- Implementation of volunteer tracking and notification modules.
- Testing, deployment, and evaluation for scalability.

Solution Architecture Description:

The solution architecture of the project “To Supply Leftover Food to Poor” connects donors, volunteers, and NGOs through a centralized digital system. The web application facilitates donor registration, volunteer task assignment, and drop-off coordination. Real-time tracking ensures food safety and accountability at every step. Notifications and data logging improve coordination, enabling transparent food redistribution and promoting sustainable social impact.

Example - Solution Architecture Diagram:



Reference:

1. <https://www.ideahackers.network/solution-architecture-template/>
2. <https://medium.com/@epicantus/problem-solution-fit-canvas-aa3dd59cb4fe>
3. Icons and elements designed using Canva & Lucidchart.