Project Design Phase

Proposed Solution

Date:	1 November 2025
Team ID:	NM2025TMID01332
Project Name:	To Supply Leftover Food to Poor
Maximum Marks:	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	**Problem Statement (Problem to be solved)**	Every day, large quantities of edible food are wasted in hotels, restaurants, and events while many poor people struggle with hunger. There is no proper system to collect and distribute leftover food efficiently and safely to those in need.
2.	**Idea / Solution Description**	The project proposes a digital platform that connects food donors (restaurants, event organizers, households) with volunteers and NGOs who distribute leftover food to the poor. Donors can post food availability, volunteers receive notifications, and real-time tracking ensures safe and timely delivery to nearby needy areas.
3.	**Novelty / Uniqueness**	The solution combines social welfare with technology by using location tracking, freshness timers, and hygiene validation. It automates donor–volunteer matching and enables instant communication to prevent food spoilage.
4.	**Social Impact / Customer Satisfaction**	It directly helps reduce hunger, minimizes food wastage, and promotes community service. Donors gain satisfaction by contributing to a social cause, and needy individuals get access to nutritious food.
5.	**Business Model (Revenue Model)**	The platform can partner with NGOs, local authorities, and sponsors to sustain operations. Revenue can be generated through donations, CSR funding, or subscription plans for restaurants that wish to participate regularly.
6.	**Scalability of the Solution**	The solution can be expanded to multiple cities, integrated with government food banks, and enhanced with AI-based demand forecasting to plan better distribution routes and reduce wastage further.

Conclusion

The proposed solution offers a meaningful, tech-enabled approach to reducing hunger and food waste. By combining real-time digital connectivity with social collaboration, it ensures that no edible food goes to waste while feeding those in need. This project supports the UN's Zero Hunger (SDG 2) and Responsible Consumption (SDG 12) goals, inspiring social change through innovation and empathy. With scalability and transparency at its core, this system can create lasting impact and transform community welfare.

Reference: Infographic created using MidJourney.

Solution Description:

The **"To Supply Leftover Food to Poor"** project introduces a community-driven system that efficiently manages food redistribution. Donors can list available surplus food via a simple app or web interface. The platform automatically alerts nearby volunteers and NGOs for collection. A built-in tracking and quality verification system ensures that the food remains safe and fresh before it reaches beneficiaries.

This approach leverages technology to connect different sectors — food providers, volunteers, and recipients — creating a sustainable and transparent food-sharing network. It promotes social responsibility, reduces food wastage, and ensures that surplus resources benefit those who need them the most.