Project Design Phase
Proposed Solution

Date	02/11/2025
Team ID	NM2025TMID02631
Project Name	To Supply leftover food to poor

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	In many cities, large quantities of edible food from restaurants, hotels, and events are wasted daily while thousands of poor and needy people remain hungry. This results in poor resource utilization, increased food waste, and environmental harm. The absence of an organized system to connect food donors with NGOs and volunteers leads to inefficiency, delayed distribution, and missed opportunities to feed those in need.
2.	Idea / Solution description	A smart matching algorithm is implemented in the system to connect food donors with nearby NGOs and volunteers. It verifies food availability, donor authenticity, and delivery feasibility before confirming the request. If no verified recipient or delivery agent is available within the safe time window, the donation process is paused with an alert message to ensure food quality and safety.
3.	Novelty / Uniqueness	It addresses a critical real-world social challenge of food wastage and hunger in a simple, efficient, and technology-driven way using a dedicated web-based platform that requires no external integrations.
4.	Social Impact / Customer Satisfaction	It ensures greater accountability and reliability among food donors, NGOs, and volunteers, preventing mismanagement or delays that could lead to food wastage or failed deliveries.
5.	Business Model (Revenue Model)	Not directly profit-oriented, but it can save time, reduce food wastage, and prevent miscommunication between donors and NGOs — leading to more efficient, transparent, and cost-effective food distribution operations.
6.	Scalability of the Solution	The solution can be extended to include additional modules such as food quality verification, donor reward systems, and real-time volunteer tracking. It can also be adapted for role-based access, allowing NGOs, donors, and administrators to manage their respective operations efficiently within the platform.

Conclusion

The project **"To Supply Leftover Food to Poor"** addresses a crucial social and environmental issue of food wastage and hunger. By creating a digital platform that connects food donors such as restaurants, hotels, and event organizers with NGOs and volunteers, the project ensures that surplus edible food reaches those in need instead of being discarded. This significantly improves community welfare, resource utilization, and environmental sustainability.

Reference: Infographic created using MidJourney.

Solution Description:

To reduce food wastage and ensure timely delivery to those in need, a smart matching and monitoring system is implemented within the "To Supply Leftover Food to Poor" platform. The system automatically checks food availability from donors and matches it with nearby NGOs or volunteers based on location, capacity, and urgency. If no suitable recipient or volunteer is available, the request is temporarily paused, and a notification is sent to ensure food safety and quality. This approach leverages a native web-based framework, making it simple, efficient, and easily adaptable without the need for external integrations. The solution enhances operational transparency, ensures accountability among all stakeholders, and supports a seamless process for food collection and redistribution**.**