Team ID	NM2025TMID06277
Project Name	Apply Leftover Food to Poor
Team Members	Ramanathan M(912422104032)
	Naveenkumar M(912422104026)
	Praveenkumar A(912422104030)
	RupeshRadhev R(912422104033)

1. Ideation Phase — Apply Leftover Food to Poor

1.1 Introduction

The Ideation Phase establishes a digital platform to collect surplus/leftover food from restaurants, events, and households and deliver it to underprivileged communities through registered NGOs and volunteers. The goal is to reduce food waste while addressing hunger in urban and semi-urban areas.

1.2 Problem Identification

Food donation often incurs costs for donors and food banks, including transportation, storage, and handling, making disposal cheaper than donation for some businesses.

Transportation and delivery of leftover food to impoverished or remote areas can be difficult due to lack of roads

Legal liabilities and food safety regulations impose constraints on what can be donated and how it must be handled.

Changing consumer behaviors and habits around leftover reuse is important to reduce waste at source before donation becomes necessary.

Lack of awareness and education about food donation processes and benefits among businesses and consumers can reduce participation.

Social disparities and corruption in distribution efforts may lead to inequitable access, with the most vulnerable sometimes missing out due to mismanagement or black marketing of donated food.

Matching food supply and demand is complex; inconsistent donation streams and excess in some locations with shortages in others cause inefficiencies.

1.3 Brainstorming Solutions
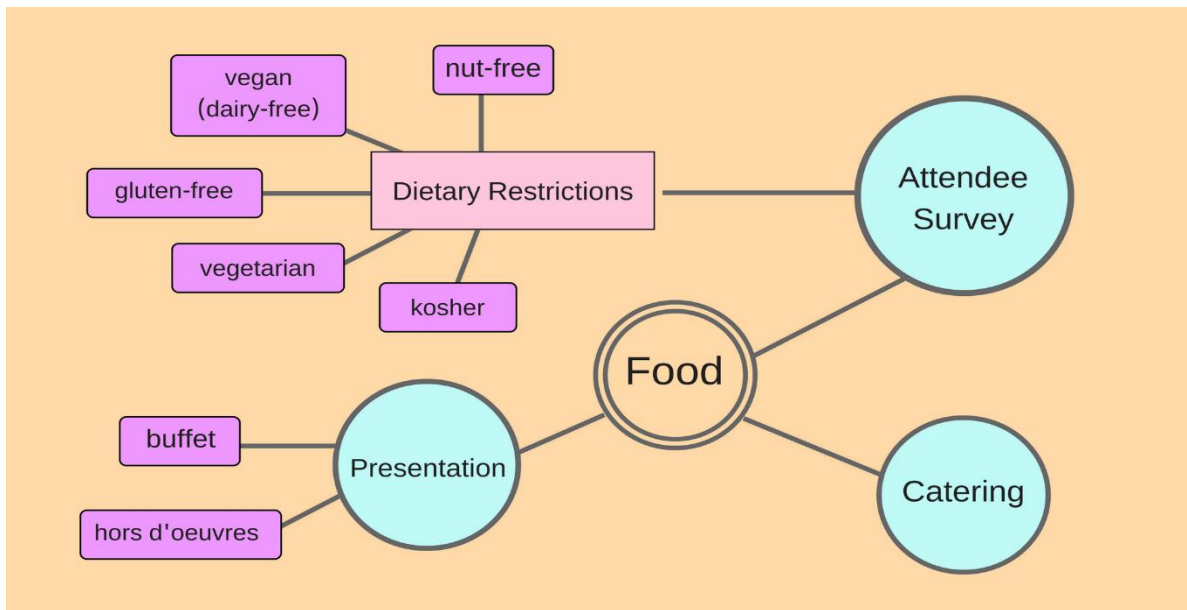
Build a web platform for donors (restaurants/events/individuals), NGOs, and volunteers to coordinate pickups.

Integrate scheduling, geolocation for pickups, short-term inventory tracking, and notifications.

Add food-safety checklists and time-window constraints; provide a quick verification flow for receiving organizations.

Provide analytics to understand hotspots for surplus generation and demand.

1.3 Idea Selection Criteria

The idea should address the real needs of the community or target beneficiaries, creating meaningful positive change.

Consider whether the idea can realistically be implemented given current resources, technology and budget.

Evaluate whether sufficient funds, skills, and materials are available for partial or full implementation.

1.4 Concept Overview

There is a strong moral imperative: it is widely seen as unethical to waste edible food while many people suffer from hunger and malnutrition.

Food donations are seen as a lifeline, providing immediate sustenance, restoring dignity, and supporting the wellbeing of vulnerable groups.

Applying leftover food for the benefit of the poor is often framed as an act of community solidarity, encouraging social responsibility and a sense of shared purpose.

1.5 Objectives

1. **Reduce Food Waste:** Limit the amount of edible surplus food that ends up in landfills by redirecting leftovers from restaurants, events, and households to those in need.
2. **Alleviate Hunger:** Provide nutritious meals to underprivileged individuals, helping to address food insecurity and malnutrition in vulnerable communities.
3. **Create Sustainable Systems:** Develop practical models (such as apps, helplines, and partnership networks) for ongoing food recovery and distribution, emphasizing replicability and adaptability to new communities.
4. **Promote Community Engagement:** Encourage individuals, organizations, and businesses to participate in food donation, fostering a spirit of community solidarity and responsibility.

1.7 Expected Outcomes

Significant diversion of edible food from landfills and waste streams, lowering the volume of food waste generated at restaurants, businesses, and households

Conservation of resources that would otherwise go into producing, transporting, and disposing of wasted food.

Financial savings for businesses, households, and communities by efficiently utilizing surplus food.