

SOLUTION REQUIREMENTS

Date	04 november 2025
Team ID	NM2025TMID04293
Project Name	To supply leftover food to poor
Maximum Marks	5 Marks

Functional Requirements :

ID	Functional Requirement	Details / User Story Reference
1	Donor Registration & Verification	The system must allow restaurants, hostels, and households to register as donors and verify their identity. (D.1)
2	Food Listing & Quantity Entry	The system must allow donors to list leftover food details including quantity, type, expiry time, and pickup location. (D.2)
3	Recipient Registration	The system must allow NGOs/volunteers/poor community groups to register to collect food. (R.1)
4	Food Request / Allocation	The system must match available leftover food with registered recipients based on location and priority. (R.2)

Non - Functional Requirements :

	Requirement Type	Non-Functional Requirement	Measurement/Metric
1	Authentication	The system must enforce secure login for donors, volunteers, and NGOs.	100% users must log in using secure credentials.
2	Authorization	Access must be role-based (Donor, Volunteer, NGO Admin, System Admin)	100% role-based access rules enforced (Access Matrix).

ID	Requirement Type	Non-Functional Requirement	Measurement/Metric
3	Performance	The system must handle multiple concurrent requests without delay.	Supports 10,000 simultaneous users with <3 seconds response time.
4	Data Security	All sensitive data (phone numbers, address, user identity) must be protected.	<i>End-to-end encryption & no plaintext data storage.</i>

Conclusion :

The Leftover Food Supply System provides an efficient and structured solution to reduce food wastage and support needy communities. By connecting restaurants, hostels, households, NGOs, and volunteers through a unified digital platform, the system ensures that surplus food reaches people who need it most, safely and quickly. With secure user access, real-time notifications, role-based permissions, and delivery tracking, the solution promotes transparency, hygiene, and social responsibility. Ultimately, this system not only helps feed the poor but also encourages a culture of sustainability and community welfare by transforming excess food into hope and nourishment.