SOLUTION REQUIREMENTS

Date	24 June 2025
Team ID	LTVIP2025TMID31177
Project Name	To Supply Leftover Food to Poor

Solution Requirements define what the system must do (functional) and how well it should perform (non-functional) to successfully solve the problem — in this case, distributing leftover food efficiently, safely, and with dignity.

Functional Requirements

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	- Registration through form - Registration using Gmail - Registration via LinkedIn or mobile number
FR-2	User Confirmation	- Confirmation through email - Confirmation via OTP on mobile
FR-3	Food Donation Submission	- Submit food details (type, quantity, expiry) - Upload photo (optional) - Set pickup time and location
FR-4	Request for Food	- Allow NGOs/receivers to request available food - View nearby available donations
FR-5	Matching & Assignment	- Match donations with valid receiver requests - Prioritize based on need, expiry, or location
FR-6	Pickup/Delivery Scheduling	- Notify donors about status updates - Alert receivers about food readiness or pickup location
FR-7	Notification System	- Notify donors about status updates - Alert receivers about food readiness or pickup location

Non-Functional Requirements

FR No.	Non-Functional Requirement	Description (Specific to Supplying Leftover Food to the Poor)
NFR-1	Usability	The platform should have a simple, intuitive interface that can be easily used by all users — including first-time donors, NGOs, and less tech-savvy receivers. Mobile-friendliness is essential.
NFR-2	Security	All user data (names, locations, contact info) and donation details must be securely stored and transmitted using encryption. Access controls must prevent unauthorized use.
NFR-3	Reliability	The system should perform consistently without errors during critical periods such as religious festivals, public events, or peak donation hours.
NFR-4	Performance	The system should process user requests (e.g., submitting food, viewing food availability) within 2–3 seconds to ensure a smooth experience.
NFR-5	Availability	The platform must be available 24/7 with 99% uptime, especially during meal times and emergencies. Downtime (for updates) should be minimal and scheduled.
NFR-6	Scalability	The system must be able to scale to support thousands of users (donors, volunteers, NGOs) as it expands to new regions or cities, without affecting performance.