Project Design Phase – II

Solution Requirements (Functional & Non-Functional)

Date:	1 November 2025
Team ID:	NM2025TMID01332
Project Name:	To Supply Leftover Food to Poor
Maximum Marks:	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Donor Registration	Registration through form by restaurants, households, or event organizers.
		Option to register through Google or phone number for convenience.
FR-2	Food Listing	Donors can upload details of leftover food (type, quantity, pickup time, and location).
FR-3	Food Request Allocation	System automatically assigns available volunteers or NGOs for collection.
FR-4	Food Pickup	Volunteer confirms pickup of food from donor with timestamp and photo proof.
FR-5	Food Delivery	Volunteer delivers collected food to nearby needy people or shelters.
FR-6	Status Update	System updates food status as *Collected*, *Delivered*, or *Expired*.
FR-7	Feedback & Rating	Donors and volunteers can provide feedback after delivery completion.

Non-Functional Requirements:

Following are the non-functional requirements of the proposed solution.

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	The interface should be simple and intuitive for donors, volunteers, and NGOs to use.
NFR-2	Security	Only verified users (donors, volunteers, and admins) should access respective modules securely.
NFR-3	Reliability	The system must ensure that food pickup and delivery information is recorded accurately and updated in real time.
NFR-4	Performance	The system should process food requests, volunteer allocations, and updates quickly without delays.
NFR-5	Availability	The platform should be available 24/7 to allow food donors and volunteers to act immediately after events or meal times.
NFR-6	Scalability	The system should handle increased numbers of donations, volunteers, and delivery requests efficiently as it expands to more regions.
NFR-7	Data Privacy	User and location data must be encrypted and protected to maintain donor and recipient confidentiality.