

Project Design Phase-II

Solution Requirements(Functional & Non -functional)

Date	27 OCT 2025
Team ID	NM2025TMID00743
Project Name	To Supply Leftover Food To Poor
Maximum Mark	4 Marks

FUNCTIONAL REQUIREMENTS

The system must allow donors (hotels, restaurants, function halls) to upload leftover food details (food type, quantity, time, location).

The system must send notifications to nearby volunteers when new leftover food is posted.

The volunteer must be able to accept pickup request from the app.

The system must lock the request to avoid duplicate pickup by multiple volunteers.

The volunteer must see map route to donor location and delivery location.

The volunteer must upload completion photo proof after delivering food.

The system must store data about food, donors, volunteers, delivery time and photos.

NON-FUNCTIONAL REQUIREMENTS

Performance: The app should send notifications to volunteers within 5 seconds of donor upload.

Usability: Interface must be simple and easy to use for donor and volunteer.

Security: Only registered donors and volunteers can access app data.

Reliability: The system should function 24/7 without failure.

Scalability: The system should handle large number of food requests and volunteers at same time.

Accuracy: System should store correct location and time details to maintain food safety.

Data Backup: All transaction data must be stored safely in database for future reports.