# Performance and Testing

| | |
|---|---|
| Date | 4 Nov 2025 |
| Team ID | NM2025TMID02156 |
| Project Name | To supply leftover food to poor |
| Marks | 4 Marks |

## ✅ PERFORMANCE METRICS

| Category | KPI / Metric | How to Measure |
|---|---|---|
| **Food Collection Efficiency** | Quantity of leftover food collected per day (kg) | Kitchen logs, app entries, donor dashboard |
| | Number of participating restaurants / event places / homes | Count on the partner database |
| **Delivery Efficiency** | Time taken between food collection → delivery | GPS tracking, volunteer reporting |
| | Percentage of food delivered before spoilage | Compare collected vs. delivered quantity |
| **Beneficiary Impact** | Number of meals served per day/week | Volunteer reports |
| | Number of beneficiaries reached | Recipient registry |
| **Operational Efficiency** | Cost per meal delivered | Total cost ÷ Meals delivered |
| | Volunteer participation rate | No. of volunteers active / no. registered |
| **Quality & Safety** | Food safety compliance rate | Checklist: temperature check, packaging, hygiene |
| **Satisfaction Level** | Feedback from donors & recipients | Surveys, feedback form, quick calls/SMS |

## ✅ TESTING PLAN

| Testing Type | Objective | Method | Expected Result |
|---|---|---|---|
| **Pilot Testing** | To verify feasibility in a small area | Start with 1–2 restaurants + 1 distribution zone | Smooth coordination between collection and delivery |
| **Food safety testing** | Ensure food is consumable & hygienic | Check temperature, packaging, expiry | Food delivered is safe and fresh |
| **Route / logistics testing** | Optimize travel time & fuel cost | Test different routes and timings | Quick delivery and minimal cost |
| **System Testing (if using app/website)** | Validate the platform functions—login, food request, notifications | Manual + automated testing | No crash, smooth data updates |
| **Stress Testing** | What happens when food requests increase suddenly | Simulate 2x–3x volume | System and team remain stable |
| **Volunteer coordination testing** | Test response speed & communication clarity | WhatsApp alerts / app pings | Volunteers reach on time |

## ✅ FIELD TEST PLAN (Step-by-step)

| Step | Details |
|---|---|
| **1. Identify donors** | Restaurants, wedding halls, canteens |
| **2. Assign volunteers** | Use geo-location to assign closest person |
| **3. Collect food** | Hygiene checklist + packaging |
| **4. Transport & deliver** | Faster route planning |
| **5. Track & record** | Photos + beneficiary count |
| **6. Feedback** | Donor & beneficiary feedback for improvement |