

# Solution Requirements Document

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Team ID	LTVIP2025TMID31579
Project Name	To Supply Leftover Food to Poor
Maximum Marks	

## 1. Introduction

This document outlines the solution requirements for the "To Supply Leftover Food to Poor" project. The goal of the project is to create a platform that connects food donors with recipients, automating the process of food donation and distribution while minimizing food waste.

## 2. Functional Requirements

Functional requirements describe the specific behaviors and functions of the system. The following are the key functional requirements for the project:

### 2.1. User Management

- **FR-1: User Registration**
  - Users (donors and recipients) can register on the platform.
  - Users must provide necessary details such as name, email, and role (donor or recipient).
- **FR-2: User Authentication**
  - Users can log in and log out securely.
  - Password recovery options must be available.

### 2.2. Food Donation Management

- **FR-3: Create Food Donation**
  - Donors can create new food donation entries, specifying details such as type, quantity, and pickup time.
- **FR-4: Edit Food Donation**
  - Donors can edit existing food donation entries.
- **FR-5: View Food Donations**
  - Recipients can view available food donations and request them.

### 2.3. Recipient Request Management

- **FR-6: Request Food**
  - Recipients can submit requests for food donations based on their needs.
- **FR-7: Track Request Status**
  - Recipients can track the status of their food requests (submitted, approved, rejected).

## **2.4. Logistics Coordination**

- **FR-8:** Schedule Pickup and Delivery
  - The system allows for scheduling pickups and deliveries of food donations.
- **FR-9:** Notification System
  - Automated notifications are sent to donors and recipients regarding food availability and request updates.

## **2.5. Reporting and Analytics**

- **FR-10:** Generate Reports
  - The system can generate reports on food donations, recipient requests, and overall impact metrics.

## **2.6. Feedback Management**

- **FR-11:** Collect Feedback
  - Users can provide feedback on their experience with the platform.

## **3. Non-Functional Requirements**

Non-functional requirements describe the quality attributes of the system. The following are the key non-functional requirements for the project:

### **3.1. Usability**

- **NFR-1:** User-Friendly Interface
  - The platform must have an intuitive and user-friendly interface for both donors and recipients.

### **3.2. Security**

- **NFR-2:** Data Protection
  - User data must be protected from unauthorized access through encryption and secure authentication methods.

### **3.3. Reliability**

- **NFR-3:** System Availability
  - The system should be available 99.9% of the time to ensure users can access it when needed.

### **3.4. Performance**

- **NFR-4:** Response Time
  - The system should respond to user actions within 2 seconds under normal load conditions.

### **3.5. Scalability**

- **NFR-5: Handle Increased Load**
  - The system must be able to scale to accommodate an increasing number of users and food donations without performance degradation.

### **3.6. Compliance**

- **NFR-6: Regulatory Compliance**
  - The system must comply with local food safety regulations and guidelines.

## **4. Conclusion**

The Solution Requirements Document outlines the functional and non-functional requirements for the "To Supply Leftover Food to Poor" project. By adhering to these requirements, the project aims to create a robust and efficient platform for food donation and redistribution, ultimately reducing food waste and improving access to food for those in need.