

# 1. Application Purpose & Functionality

**Title:** *FoodShare Network – A Food Redistribution Platform*

## Core Purpose

The **FoodShare Network** exists to **reduce food waste and combat hunger** by creating a seamless digital link between **grocers, restaurants, and food banks**. The platform facilitates the redistribution of surplus food from suppliers to organizations in need, enabling real-time listing, browsing, and claiming of food items.

## Key Functionality

- **Account Setup & Role-Based Access**  
Simple onboarding for grocers, restaurants, and food banks, with dashboards tailored to their needs.
- **Food Listing System**  
Donors can quickly list surplus food items, categorize them, add quantities, expiration dates, and specify pickup or delivery options.
- **Food Discovery & Ordering**  
Food banks can browse available food listings based on filters like location, category, and availability. They can reserve food and coordinate pickups or deliveries.
- **Shared Locations**  
The system maintains a database of pickup and drop-off points accessible by all users, improving efficiency and logistics.
- **Analytics Dashboard**  
Visualize impact with charts showing metrics like total food donated, meals provided, and carbon savings. Helps donors understand their contribution and track performance over time.
- **Secure Transactions**  
Every food transfer is logged and tracked as a transaction, ensuring transparency and traceability from listing to delivery.



## 2. Target Users & Key Needs

### 1. Grocers & Restaurants (Donors)

**Key Needs:**

- A quick and intuitive way to list surplus food
- Legal and safety information regarding food donation
- Clear pickup/drop-off coordination with food banks
- Impact tracking and analytics (pounds donated, meals saved)
- Reduce food waste while contributing to social good

## **2. Food Banks (Recipients)**

### **Key Needs:**

- Real-time visibility of food available nearby
- Filtering options to prioritize certain food types or quantities
- Ability to reserve items before others claim them
- Easy logistics for arranging pickups or requesting delivery
- Access to shared pickup hubs

## **3. Administrators (Optional)**

### **Key Needs:**

- System-wide visibility and management
- Reporting tools for compliance, safety, and impact metrics
- Moderation tools to resolve conflicts or manage inactive listings