





## Food Waste Management App - Features Documentation

This document explains the main features of the Food Waste Management App in a simple, easy-to-read way. The app connects Restaurants, NGOs, and Volunteers to reduce food waste and distribute surplus food efficiently.





### User Roles

There are three types of users in the system:





#### Restaurant Manager/Employee

-  Add food details (name, quantity, expiry).
-  Pin location of available food on the map.
-  Accept or decline food requests from NGOs/Volunteers.
-  Mark food as collected.







#### NGO (Organization)

-  Admin manages NGO profile.
-  Add/remove NGO members.
-  Members can request food from restaurants.
-  Coordinate collection of food.





#### Volunteer

-  Register as an individual.
-  See food availability nearby on the map.
-  Request food (with limits to prevent spam).
-  Collect food after restaurant approval.

### Core Features






-  Restaurants create food posts (Name, Quantity, Expiry, Location).
-  Posts show on Mapbox map.
-  NGOs and Volunteers see available food on map and can request it.
-  Restaurant receives notification and Accepts/Declines request.
-  If accepted, requester gets route on Mapbox Directions API.
-  Food marked as collected once done.

### Extra Features (Future Enhancements)

-  Hygiene Rating System for restaurants.
-  Push Notifications when food is posted nearby.
-  Expiry Timer to auto-remove expired food.
-  Analytics Dashboard (Donations, Collections, Meals shared).

## **Donation Feature**

Apart from food donations, the app will also support monetary donations to NGOs via Razorpay integration. This will allow individuals to contribute funds that NGOs can use for logistics, storage, or other food distribution efforts.

-  Secure payment gateway using Razorpay.
-  Users can choose NGO and donate money directly.
-  Razorpay Test Mode for development and real transactions with KYC verification.
-  Transaction history and donation receipts for transparency.
-  Funds used by NGOs for transportation, packaging, and outreach.