



FOOD SHARING

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Anna Mitra Waste Management System

By Team EcoVision

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Submitted to: JayPrakash Lalchandani

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Executive Summary

Anna Mitra is a technology platform that rescues surplus cooked food from restaurants, events, hostels, and households and redistributes it to people in need through a verified network of NGOs and volunteers.

- ✓ Streamlines end-to-end donation lifecycle
- ✓ Matches donations with nearest NGOs
- ✓ Assigns volunteers for pickup & delivery
- ✓ Ensures safe handling & transparency
- ✓ Prioritizes speed, food safety, and accountability








Problem Statement

! Large volumes of edible food are discarded daily while nearby communities remain food-insecure

- 🔍 No central place to announce surplus food and make it discoverable
- 🔄 Coordination gaps between donors, NGOs, and volunteers; pickups are often late or duplicated
- 🛡️ Food safety risks due to unclear handling practices and time limits
- 👁️ Lack of transparency—donors rarely know whether their food was collected and delivered on time

💡 **Anna Mitra addresses these gaps with a single coordinated system**

Goals & Objectives

- 1  **Fast, reliable matching** of surplus food with nearby NGOs/volunteers before it expires
- 2  **End-to-end visibility** of the donation lifecycle for all stakeholders
- 3  **Built-in food safety** through checklists, time windows, and handling guidelines
- 4  **Trust & accountability** using verification, ratings, and delivery proofs
- 5  **Actionable insights** via dashboards and reports to increase impact over time

Stakeholders & Roles



Donor

Creates donations, lists items, sets preferred pickup window, provides contact/location details



NGO

Views nearby donations, claims suitable ones, coordinates volunteer pickup, confirms delivery



Volunteer

Accepts/gets assigned pickups, sees route/map, follows safety checklist, marks handover



Admin

Monitors donations, manages users, moderates content, tracks platform metrics



Team collaboration for food rescue

Core Features - Public Site



Home

- 📄 Mission
- 📊 Quick stats
- 👤 **Donate Food CTA**
- ” Testimonials



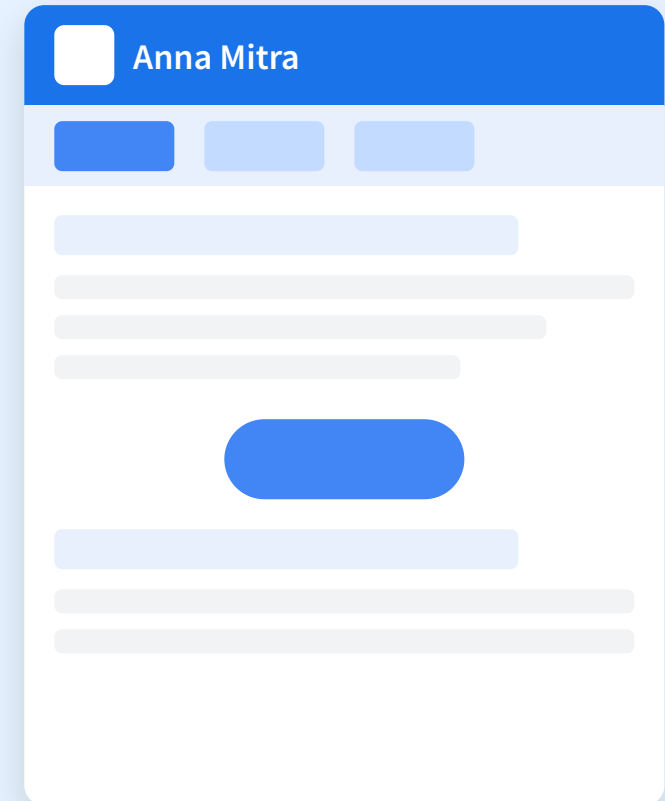
About (Who We Are)

- 📖 Story
- 👁 Vision
- 🌱 **Sustainability focus**
- 🚫 No IoT bins
- ↔ Purely donation & redistribution



Contact







- 📄 Contact form
- 🗣 Support details



Core Features - Access & Accounts








Login/Signup

-  Email based
-  OTP authentication
-  Role selection
-  Donor
-  NGO
-  Volunteer



Account


-  Profile info
-  Addresses/Locations
-  Organization documents
-  NGO verification
-  Notification settings


Anna Mitra


Email

Password

Select Role


Donor


NGO


Volunteer

Core Features - Donation Lifecycle



Create Donation

Pickup location Food items **Best-before time** Dietary tags



Donations List

Status filters Open Claimed In Pickup Delivered



Donation Details

Complete timeline Items list Map view Action buttons



Notifications

Real-time alerts NGO notifications Status updates



Proof of Delivery

Photo upload NGO signature **123** OTP verification

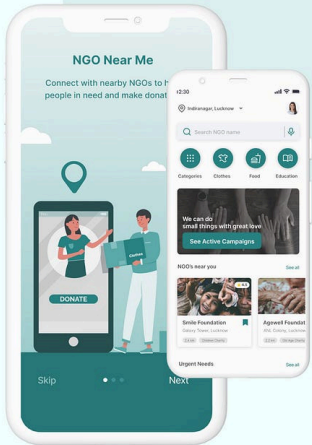


Sewa

UI UX Case Study

Sewa Donation App

Connecting Donors with Underprivileged Communities who are in need and often left unheard.



Food donation platform interface

Core Features - Role Dashboards



Donor Dashboard

- + **Quick action:** Create Donation
- 🕒 **History:** Past donations, Pending confirmations, Recent deliveries
- 👤 **Manage Profile**



NGO Dashboard

- 📍 **Nearby open donations**
- 👤 **One-click Request** assign to available volunteer
- 📍 Set delivery destination (shelter/community point)
- ⚙️ **Compliance tracker:** food safety checklist completion



Volunteer Dashboard

- 📋 **"My Assignments"** with pickup & drop addresses, ETA, map link
- ➡️ **Stepper flow:** Start → At Donor → Picked → At NGO → Delivered
- 📷 Upload proof (photo + OTP)



Admin Dashboard

- ✅ **User/NGO verification** (documents & status)
- 👁️ Monitor Donations
- 👤 Control over all users
- 👤+ Create other admin profiles (if Super Admin)

Detailed Workflow

1 Post

Donor **publishes donation** with items and pickup window

2 Notify

Nearby NGOs receive **push/email/SMS alerts**; list shows freshness/time remaining

3 Request

NGO requests; donor receives requests from multiple NGOs and **accepts one**

4 Assign

NGO **assigns a volunteer** (or volunteer self-accepts from open pool)

5 Pickup

Volunteer follows **in-app checklist** (packaging, vehicle hygiene), marks Picked

6 Handover

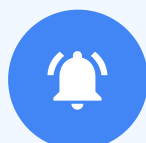
At delivery point, volunteer **records photo as proof**; marks Delivered

7 Close & Rate

System closes donation, updates metrics; donor/NGO can **rate experience** and leave feedback



Post



Notify



Request



Assign



Pickup



Handover



Rate

Food Safety & Compliance



Time-bound Pickups

Based on **best-before** and **ready-on** fields to ensure food freshness



Mandatory Safety Checklist

Packaging intact • **Temperature safe** • **Vegetarian separation**



Educational Hints

Tips on donation form (e.g., **cool food to safe temperature** before dispatch)

Technology Stack



Frontend

React (web)



Backend

Node.js + Express (REST)



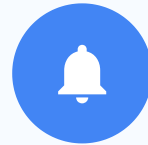
Database

PostgreSQL or MongoDB



Location/Maps

Google Maps Platform



Notifications

Firebase Cloud Messaging +
email/SMS gateway



Storage

Cloud object storage for proofs



Frontend



Backend



Database



Deployment

Future Enhancements



Event-Mode Donations

Bulk donations for events • **Recurring schedules** for hostels/messes



Corporate CSR Integration

CSR dashboards • **Impact certificates** for corporate partners



Route Optimization

Route batching for volunteers • **Basic route optimization** algorithms



Communication Features

In-app chat with masking • **Multilingual voice prompts**



Events



Corporate



Routing




Chat

Conclusion


Anna Mitra is a practical, screen-aligned platform to reduce hunger and food waste by connecting donors, NGOs, and volunteers and managing the full donation lifecycle with safety and accountability.

The design mirrors the actual functionality present in our current screens: public pages (Home/About/Contact), authentication and account management, Donation creation + items modal, Donations list & details, and role-specific dashboards (Donor/NGO/Volunteer/Admin).

This proposal lays out the path to deliver a **usable, impactful system** within the semester.

 Reduce Hunger

 Minimize Waste

 Ensure Safety

 Streamline Process



100%

Platform Alignment

End-to-End

Donation Lifecycle

One Semester

Delivery Timeline