

# Anna Mitra

## Food Redistribution Platform - Project Status Report

**Team:** EcoVision (Group 6)    **Report Date:** October 14, 2025    **Submission:** November 20, 2025

### Executive Summary

Anna Mitra is a web-based food redistribution platform designed to connect surplus food donors (restaurants, events, households) with verified NGOs and volunteers to combat food waste and hunger. The project has successfully completed 4 weeks of development (Sept 15 - Oct 12) with significant progress in database architecture, backend API development, frontend UI implementation, and authentication systems. The platform is currently 70% complete with core donation lifecycle functionality operational and role-based dashboards under active development.

### Team Structure & Roles

<b>Team Leader &amp; Scrum Master</b> Mohit Pipaliya
<b>Product Owner</b> Kashish Sorathiya
<b>Solution Architect</b> Anirudh Lohiya
<b>DevOps Engineer</b> Mohit Pipaliya
<b>UI/UX Designers</b> Rajvi Dhameliya, Kashish Khubchandani
<b>Business Analyst</b> Kashish Khubchandani
<b>Frontend Developers</b> Honey Patel, Bhumi Vyas
<b>Backend Developers</b> Hardip Muliyaishiya, Aakash Odedara, Kashish Sorathiya

## Development Progress (Weeks 1-4)

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### Week 1 (Sept 15-21): Foundation Setup ✓

- Finalized MongoDB database schema (User, Donation, NGO, Volunteer, Proof, Feedback)
- Configured Node.js + Express backend environment
- Established basic API endpoint structure

### Week 2 (Sept 22-28): UI/UX Design ✓

- Created wireframes for Home, About, Contact, and role-based dashboards
- Developed static frontend pages using React and Tailwind CSS
- Defined routing structure for public and private routes

### Week 3 (Sept 29-Oct 5): Core Features ✓

- Implemented Donation model, controller, and CRUD operations
- Built donor functionality (create, update, view donations)
- Developed NGO donation request and claim system

### Week 4 (Oct 6-12): Authentication & Integration ✓

- Integrated Passport.js local strategy for authentication
- Implemented role-based access control (Donor/NGO/Volunteer/Admin)
- Connected frontend with live backend APIs
- Finalized login/signup and dashboard UI screens

# Technical Implementation Status

## Backend (80% Complete)

- ✓ RESTful API architecture
- ✓ MongoDB database integration
- ✓ Authentication & authorization
- ✓ Donation lifecycle APIs
- Notification system (pending)

## Frontend (65% Complete)

- ✓ React + Tailwind CSS setup
- ✓ Public pages (Home/About/Contact)
- ✓ Login/Signup interface
- Role dashboards (in progress)
- Map integration (pending)

## Database (100% Complete)

- ✓ Schema design finalized
- ✓ MongoDB collections created
- ✓ Mongoose ODM integration
- ✓ Data relationships established

## Documentation (90% Complete)

- ✓ SRS document
- ✓ System design document
- ✓ UML diagrams (Use Case, Class, Activity)
- ✓ API documentation
- Testing documentation (pending)

# Challenges Encountered & Resolutions

## Database Relationship Complexity

Resolved by creating clear junction tables and using Mongoose populate() for many-to-many relationships between Donors, NGOs, and Donations.

## Multi-Role Dashboard Layout

Addressed through component-based architecture with role-specific routing and reusable UI components for consistency.

### **Passport.js Integration Issues**

Fixed session handling problems by configuring express-session properly and implementing custom serialization logic for role-based access.

### **CORS & API Connectivity**

Resolved by configuring CORS middleware with proper origin whitelisting and credential support for cross-origin requests.

## **Remaining Tasks (Weeks 5-8)**

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### **Week 5 (Oct 13-19)**

- UI polish & validation
- Firebase notification system
- User testing with dummy accounts
- NGO feature completion

### **Week 6 (Oct 20-26)**

- Functional & integration testing
- Performance optimization
- Bug fixing
- Screenshots & video demo

### **Week 7 (Oct 27-Nov 2)**

- Final documentation preparation
- Presentation materials
- Internal review meeting
- UI/UX feedback implementation

### **Week 8 (Nov 3-20)**

- Final build submission
- Presentation rehearsals
- Quality assurance
- Submission (Nov 20)

## Project Health Assessment

Overall Progress

**70%**

Schedule Status

**On Track ✓**

Risk Level

**Low**

The Anna Mitra platform is progressing well with all major milestones achieved on schedule. Core functionality is operational, and the team is confident in delivering a fully functional food redistribution platform by November 20, 2025.

**Prepared by:** Team EcoVision | **Submitted to:** JayPrakash Lalchandani

Anna Mitra - Connecting Donors • NGOs • Volunteers