

# **SHAREBITE - LET'S FIGHT FOOD WASTE**

**Food Waste  
Management System**



# Introduction to ShareBite

**ShareBite – Let's Fight Food Waste** is a web-based platform designed to tackle the dual issues of food wastage and hunger in our communities. The project serves as a digital bridge that connects Donors (like restaurants, individuals, or events) with NGOs and Volunteers, facilitating the timely and efficient donation and delivery of excess food.

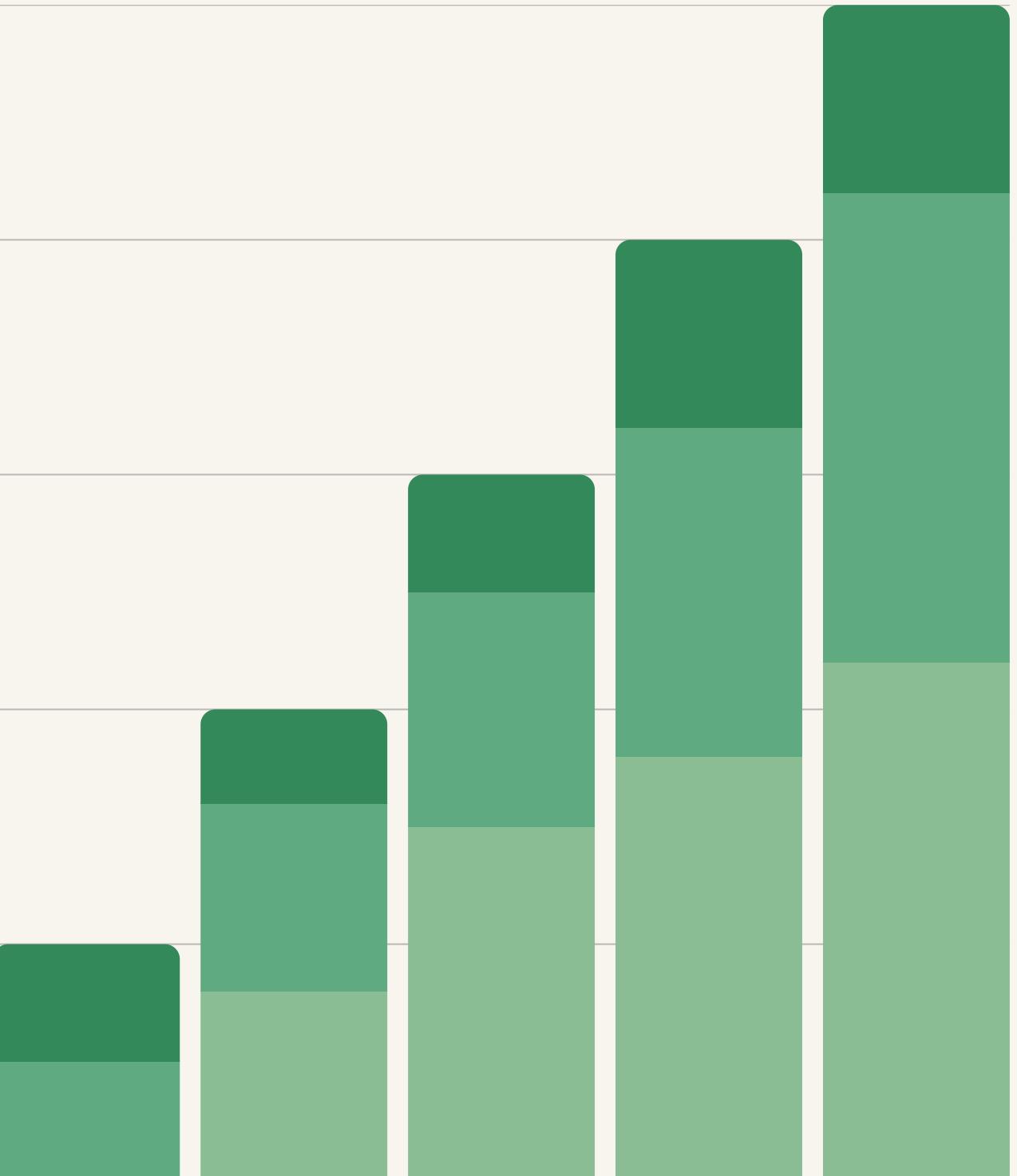
By providing a real-time, transparent, and user-friendly interface, ShareBite ensures that surplus food reaches those who need it most — before it goes to waste. The platform aims to simplify the donation process, encourage community involvement, and create a collaborative ecosystem in the fight against food insecurity.

With features like role-based access, event listings, and donation tracking, ShareBite not only promotes sustainability but also inspires social responsibility through technology.



# Objectives

- Minimize food wastage by redirecting excess food to NGOs.
- Create a real-time connection between donors, NGOs, and volunteers.
- Streamline the process of food donation and distribution.
- Promote social responsibility through a user-friendly digital platform.
- Encourage community participation via events and volunteer work.
- Increase transparency and trust in food donation activities.



# Types of waste and their classification

## Frontend

**React.js** - For building responsive and dynamic user interfaces.

**Tailwind CSS** - For utility-first styling and modern UI design.

## Backend

**Flask (Python)** - Lightweight web framework to handle APIs and business logic.

## Database

**MongoDB** - NoSQL database to store user data, food posts, requests, etc.

## Authentication

**JWT** - Used for secure, role-based access control.

# User Roles

## Donor

- Can register and post excess food available for donation.
- Can view requests and contribution history.

## NGO

- Can view donation posts and request required food.
- Can manage food request statuses.

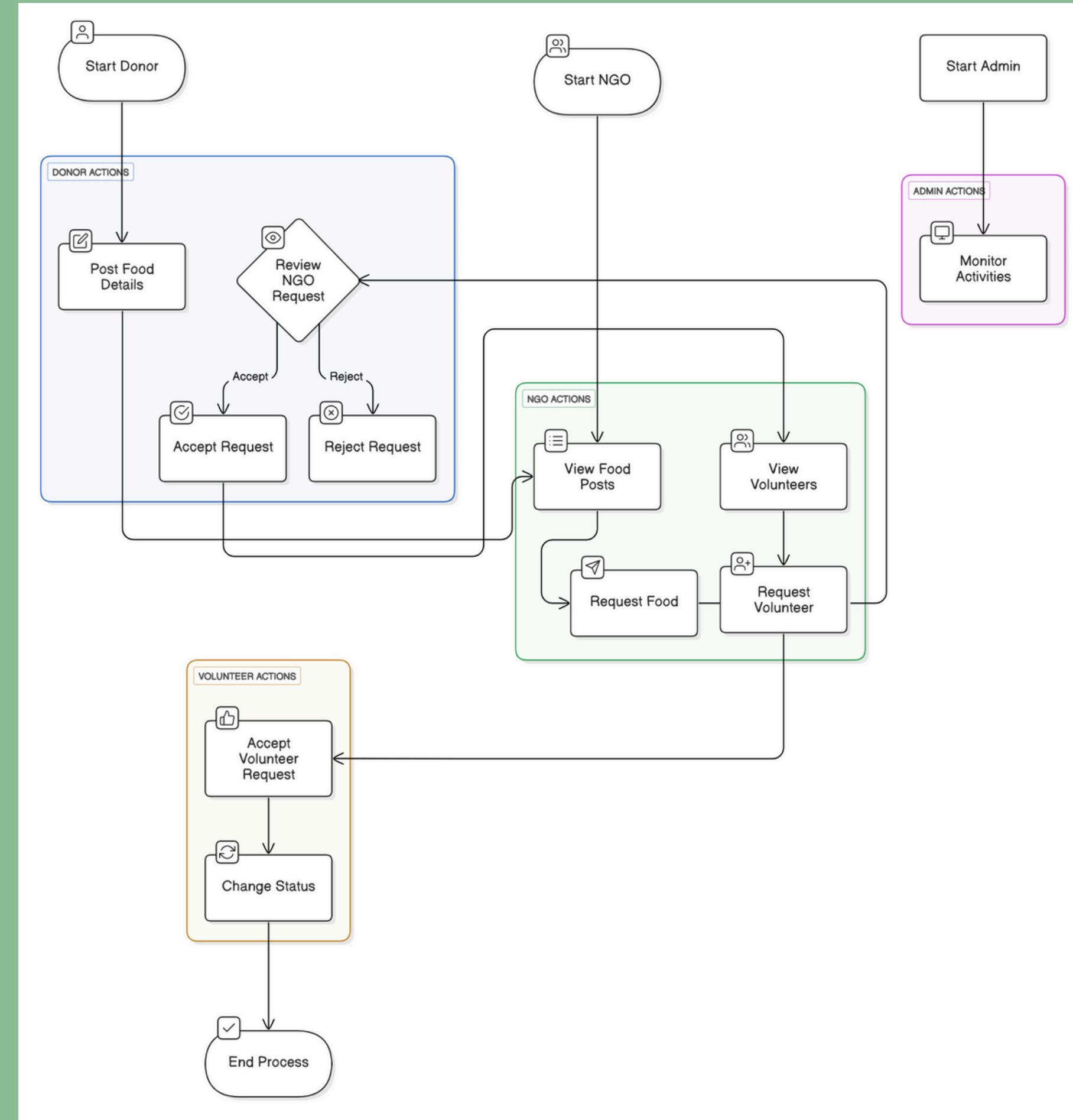
## Volunteer

- Picks up food from donors and delivers it to NGOs.
- Coordinates delivery timings and availability.

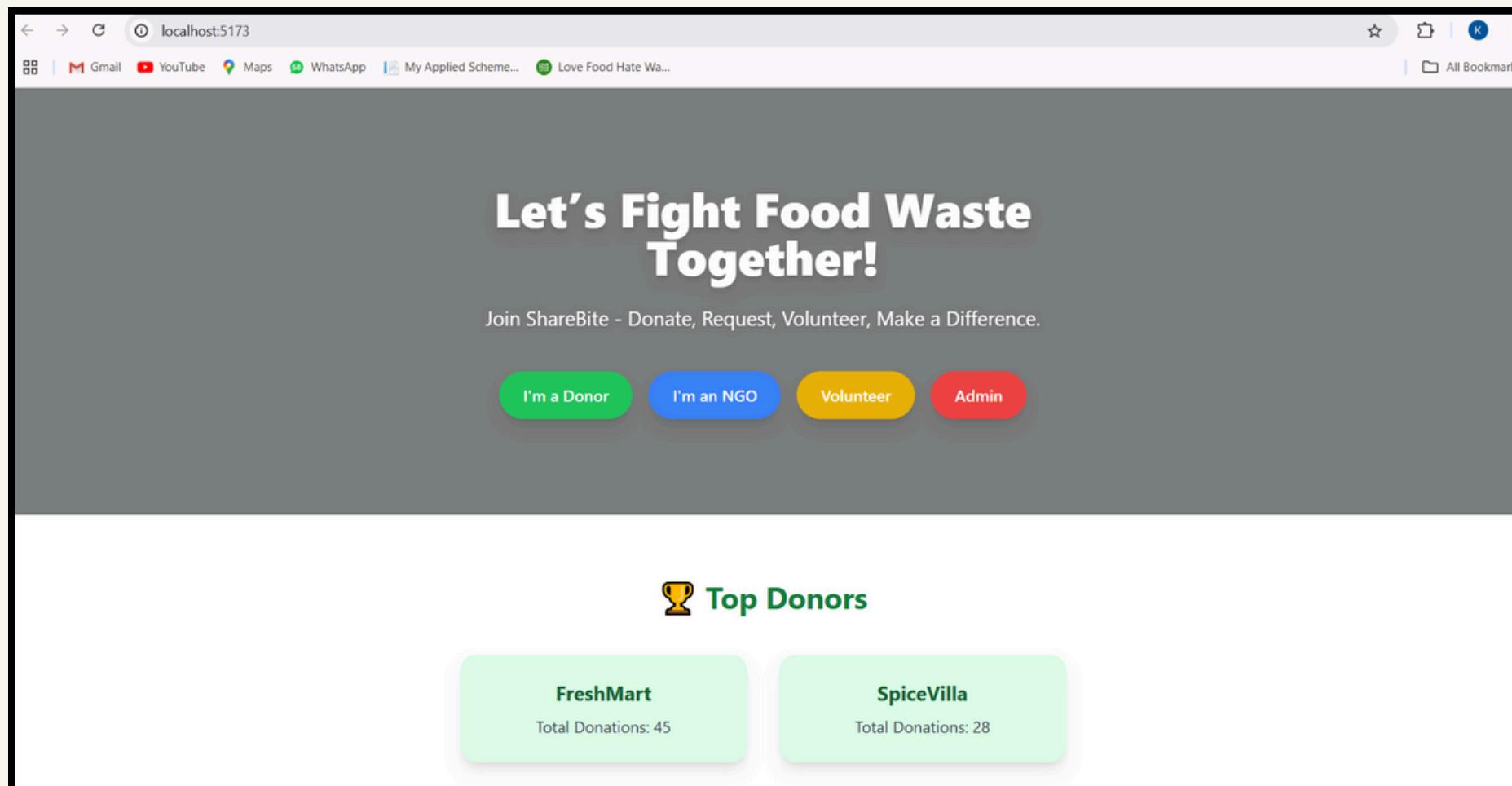
## Admin

- Manages users and oversees platform operations.
- Can view reports, analytics, and approve events.

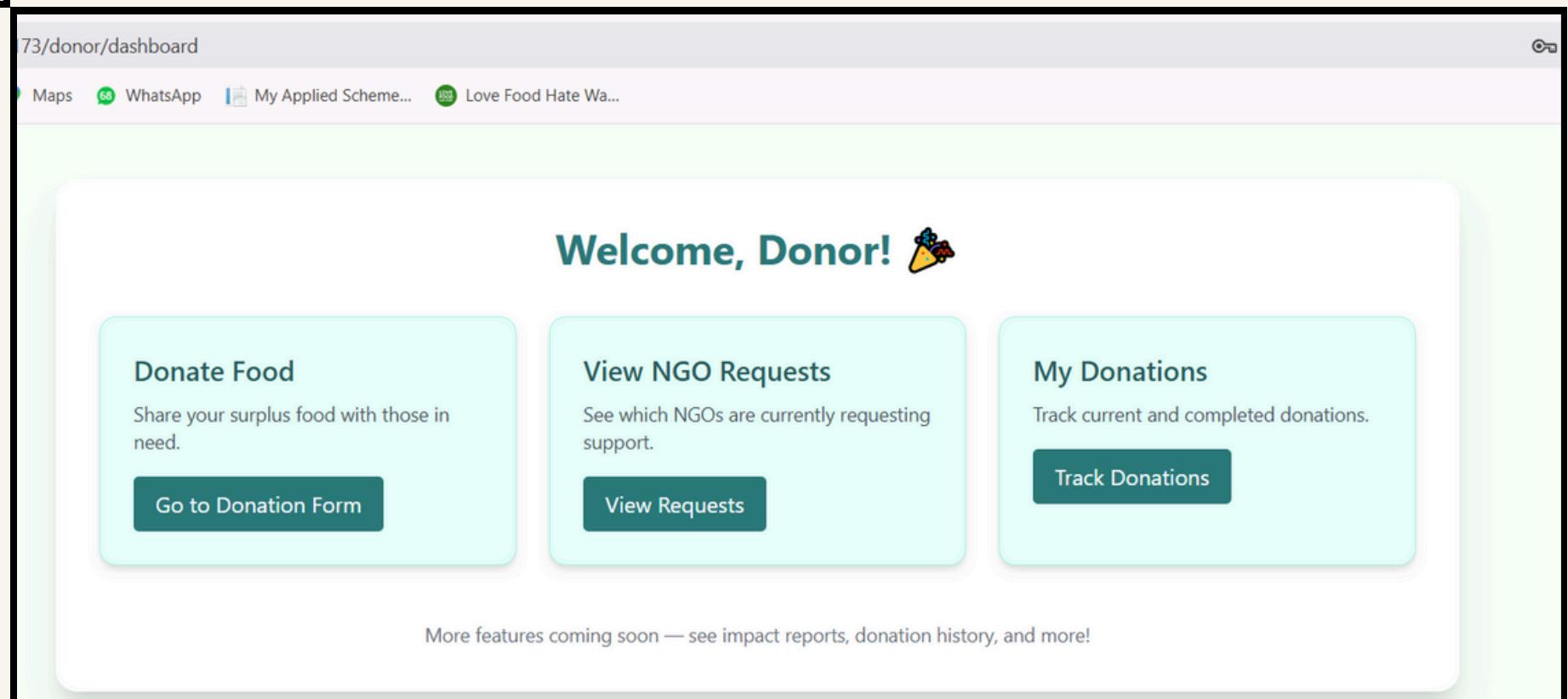
# Proposed Flowchart



# Implementation



The screenshot shows the ShareBite landing page. At the top, a dark banner features the text "Let's Fight Food Waste Together!" in white, bold, sans-serif font. Below the banner, a subtext reads "Join ShareBite - Donate, Request, Volunteer, Make a Difference." A row of four buttons in green, blue, yellow, and red are labeled "I'm a Donor", "I'm an NGO", "Volunteer", and "Admin" respectively. The main content area has a light gray background and displays a section titled "Top Donors" with a trophy icon. It lists two organizations: "FreshMart" with "Total Donations: 45" and "SpiceVilla" with "Total Donations: 28".



The screenshot shows the ShareBite donor dashboard. The URL in the browser bar is "73/donor/dashboard". The main heading is "Welcome, Donor!" with a small cake emoji. The dashboard is organized into three main sections: "Donate Food" (with a "Go to Donation Form" button), "View NGO Requests" (with a "View Requests" button), and "My Donations" (with a "Track Donations" button). A note at the bottom states "More features coming soon — see impact reports, donation history, and more!"

# Implementation

The screenshot shows the 'Welcome, NGO Partner!' dashboard at [localhost:5173/ngo/dashboard](http://localhost:5173/ngo/dashboard). The interface is divided into two main sections: 'Available Donations' (pink), 'Requested Food Status' (green), 'Completed Requests' (purple), 'Available Volunteers' (yellow), 'Volunteer Request Status' (blue), and 'Current Assigned Volunteers' (light blue). Each section includes a brief description and a red 'Go' button.

The screenshot shows the 'Donate Food' form at [localhost:5173/donor/donate-food](http://localhost:5173/donor/donate-food). The form fields include:

- Food Item: rice bowl
- Quantity (e.g., servings): 5
- Pickup Location: Delhi
- Available Until (Date and Time): 12/04/2025 10:00 PM
- Food Expiry Date: 12/04/2025

A green 'Submit Donation' button is located at the bottom right of the form.

# Implementation

localhost:5173/ngo/available-donations

### Available Donations

- rice bowl**  
Donor: 67fe79073376499964f8fa11  
Location: Dombivli  
Quantity Available: 2  
 Request
- pizza**  
Donor: 67fe79073376499964f8fa11  
Location: Dombivli  
Quantity Available: 13  
 Request
- burger**  
Donor: 67fe79073376499964f8fa11  
Location: mumbai  
Quantity Available: 25  
 Request
- juice**  
Donor: 67fe9f7988198fea504ccf51

/ngo/completed-requests

### Completed Food Requests

- Cooked Rice (20)**  
Donor: Goodwill Kitchen | Volunteer: Raj Mehta | Date: 2025-04-10
- Bread Packets (35)**  
Donor: FoodForAll Org | Volunteer: Pooja Verma | Date: 2025-04-11

# Implementation

The image displays two screenshots of a web-based volunteer management system.

**Screenshot 1: Volunteer Dashboard**

The URL in the browser is `localhost:5173/volunteer/dashboard`. The page features a "Hello, Volunteer!" greeting with a hand icon. It includes a "Your Availability" section with a clock icon and a "Set Availability" button. Below that is a "Nearby Requests" section with a location pin icon and a "View Nearby Requests" button. At the bottom, a yellow box says "More Features Coming!" with a small hand icon, followed by the text "Stay tuned for your profile, badges & volunteer tracking features 🚀".

**Screenshot 2: Incoming NGO Requests**

The URL in the browser is `localhost:5173/volunteer/pickup-requests`. This page lists incoming requests from NGOs:

- Helping Hands**  
Donor: Shree Food Stall  
Item: Rice | Qty: 10  
Pickup Address: Sector 17, Mumbai  
Pickup By: 5:00 PM Accept Task
- Care4All**  
Donor: Anna Bhavan  
Item: Chapati | Qty: 25  
Pickup Address: Powai, Mumbai  
Pickup By: 6:30 PM Accept Task



# Future Scope

- **Mobile App Development**
  - Create an Android/iOS app to increase accessibility and engagement.
- **Real-Time Notifications**
  - Implement real-time alerts for donations, requests, and volunteer updates.
- **AI-Based Food Need Prediction**
  - Use AI to analyze trends and predict where food shortages are most likely.
- **Gamification & Rewards**
  - Encourage volunteer participation with points, badges, and leaderboards.
- **Multi-Language Support**
  - Reach a wider audience by adding support for regional languages.
- **Partnership Integration**
  - Collaborate with restaurants, hotels, and supermarkets for large-scale donations.

# Conclusion

ShareBite is not just a digital solution but a meaningful step towards addressing the pressing issues of food waste and hunger in our society. By connecting donors, NGOs, and volunteers on a single platform, it simplifies the process of food redistribution while promoting transparency, efficiency, and community participation.

The platform is designed with a user-friendly interface and a strong technical foundation, making it both impactful and scalable. With future enhancements like real-time alerts, mobile apps, and AI-driven insights, ShareBite has the potential to expand its reach and effectiveness significantly. It truly embodies the spirit of sharing and caring—one bite at a time.



**THANK  
YOU VERY  
MUCH!**

