



Basic Details of the Team and Problem Statement



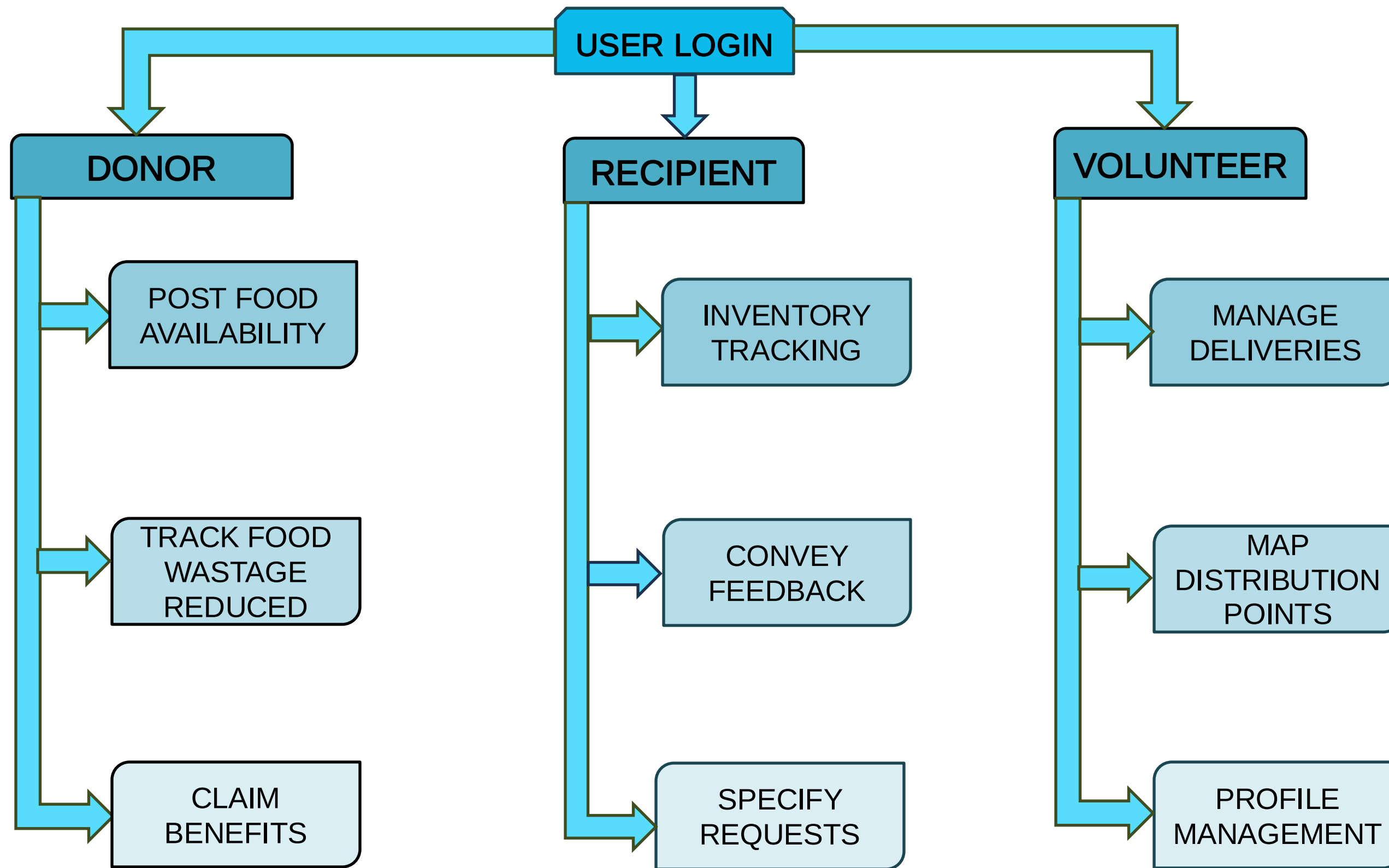
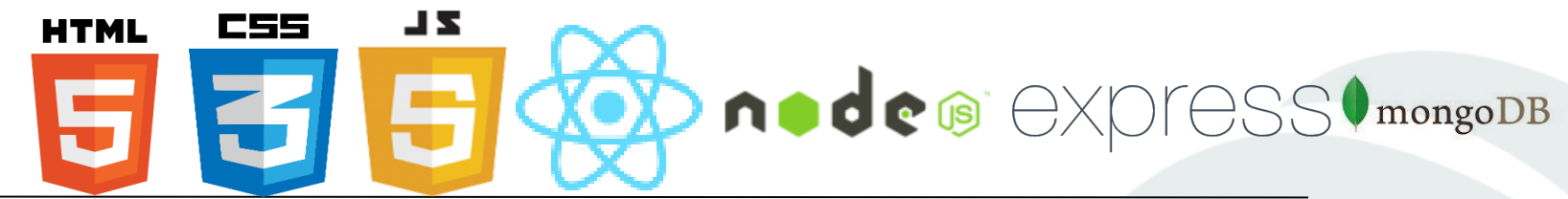
PS Code: SW-05

Problem Statement Title: Food Waste Reduction Platform

Team Name: Downtown Incursion

Team Leader Name: Pratham Manjrekar

Flowchart & Tech Stack



TECH STACK - MERN

1] Languages:

Frontend – HTML, CSS, JavaScript
Backend – Node.js

2] Frameworks:

Frontend:

- **React.js:** For building single app application.
- **Tailwind CSS:** For rapid styling to build clean, responsive UI.

Backend:

- **Express.js:** Framework that simplifies server-side development.
- **MongoDB:** Database for storing user details, tracking contributions.

3] Dependencies:

- **Hugging Face Api:** AI models for food quality inspection
- **Leaflet.js:** Provides intuitive map-based visualizations.
- **Socket.io:** Applying real time applications like tracking, notifications, etc.

Idea/Approach Details

Uses Cases:

- **Restaurants/Hotels/Banquets/Grocery Stores :**
To conserve surplus food from wasting and recycle unnecessary byproducts.
- **Charity Shelters/NGOs :**
To track food donations, request for supplies, efficiently plan meal distributions.
- **Households :**
Enable households to share excess food safely with charity shelters or food banks through the platform.
- **Commercial Value :**
Supply of food wastes and expired food could delivered for:
 - Biomass Energy Generation.
 - Alcohols/Syrups/Juices Production.
 - Compost, Organic Fertilizer Production.
 - Animal Feed Production.

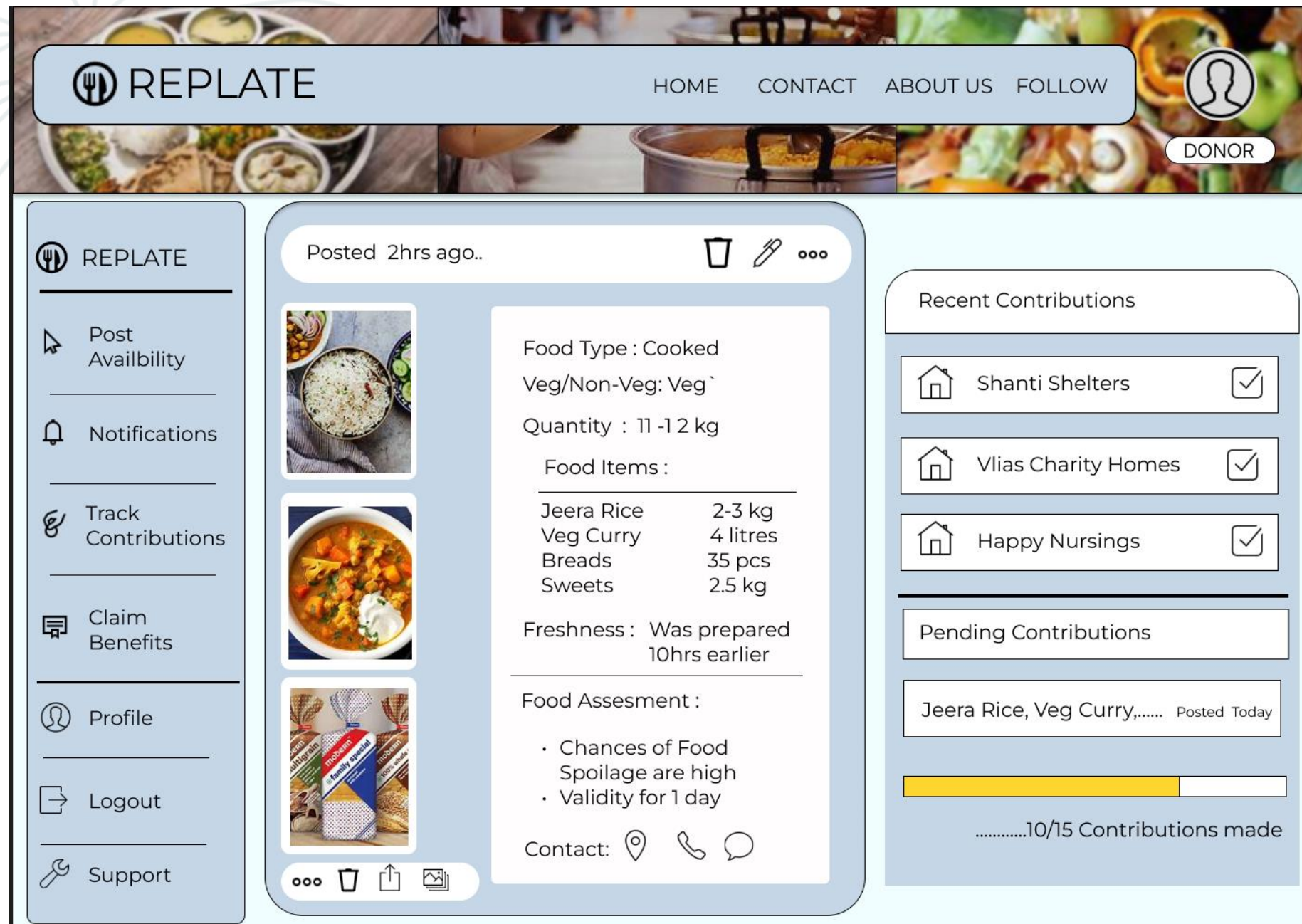
Dependencies :

- Reliable partnerships with donors like restaurants, grocery stores, households etc. for consistent food donations.
- Logistics providers.
- Volunteers and Delivery network.

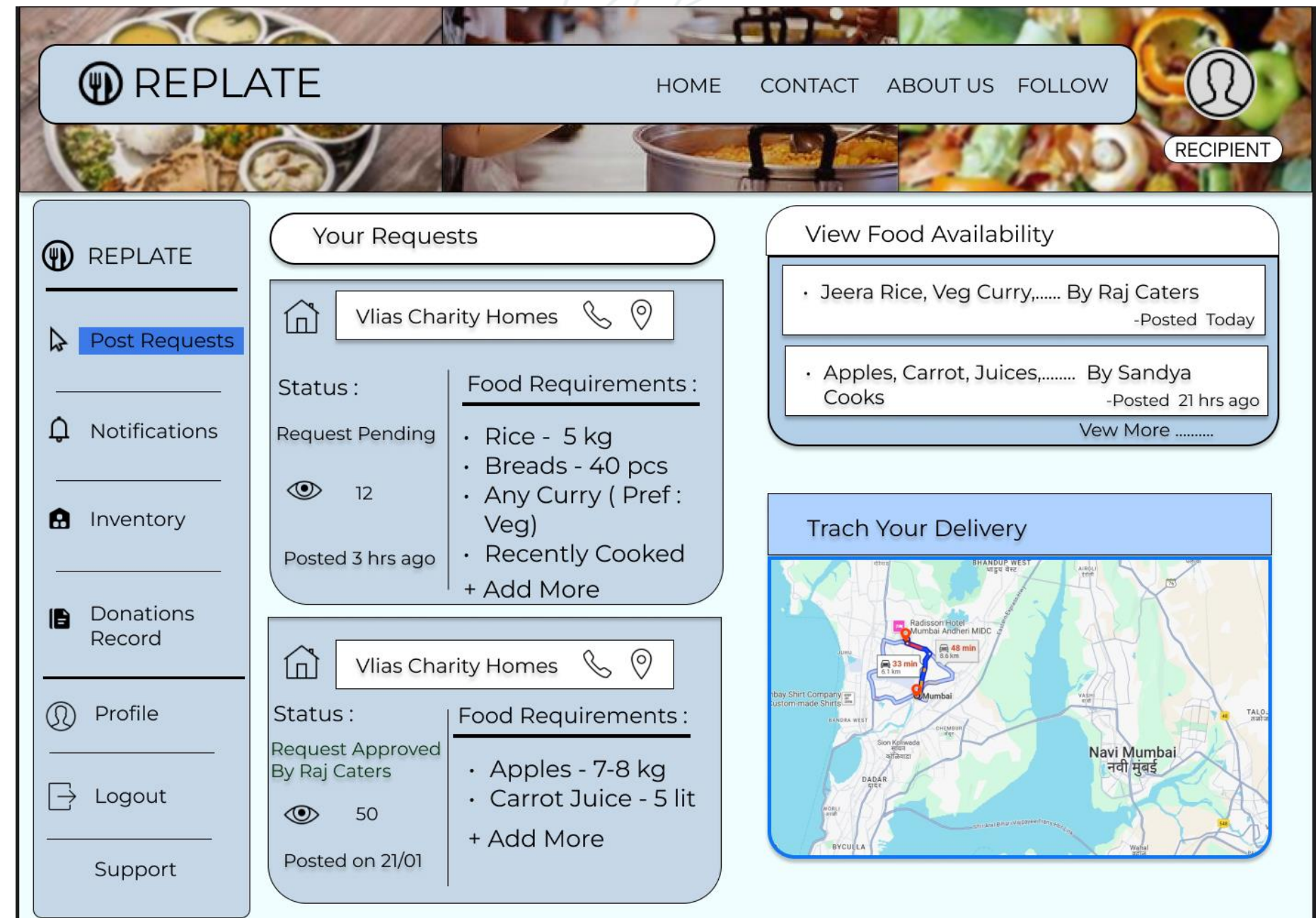
Show Stoppers:

- Food quality.
- Lack of donors' participation.
- Logistical Challenges like delays in deliveries, unavailability of volunteers etc.

UI Designs :



DONOR HOMEPAGE



RECIPIENT HOMEPAGE

Team Member Details

Team Leader Name: Pratham Manjrekar

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SE (II)

Team Member 1 Name: Prathamesh Jojode

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Team Member 3 Name: Tanmay Narkar

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