Passion-fueled Creativity, Purpose-driven Innovation

TEAM NAME :   SUMIRAV

DOMAIN :   WEB

Problem statement :

Rise in consumption through *urbanization, consumer habits, fast Fashion, over consumption*, while some underprivileged **people lack access** to **essential items** like clothing, footwear, Technology. This imbalance highlights **need for <u>circular economy</u>**, where excess products are **<u>redistributed rather than discarded</u>**

Overconsumption has intensified environmental degradation, waste mismanagement, natural resource depletion, water crisis, and has amplified carbon footprints, leading to climate crisis and increase pollution
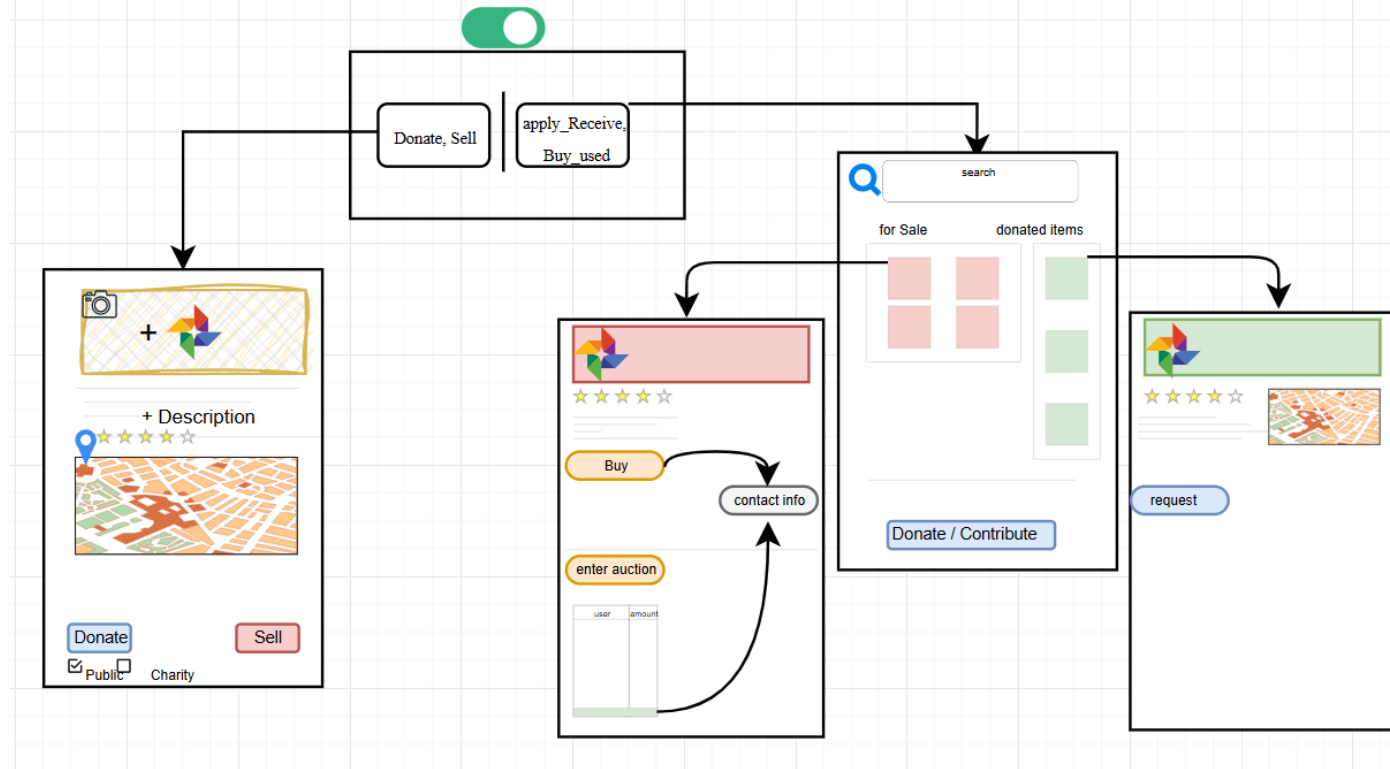
Idea / Approach Details

User **Donates** a product ,**notification sent** around **1km radius**, notification sent to expected user who are in need(through user information data, processed whether its useful to them or not), **Request list**

NGO/Corporate Collaborations : Donor gets coupons, rewards from that organization, encouraging recycling

Post office Partnership for logistics : receiver picks up item from post office, scans QR code(One Time Handshake) for verification

Seller can implement *Biding option*, Auction for Rare products

Leaderboards : Shows Top Contributors in categories, with their *Carbon Credit Scores*

Technology Stack

Python, database MySQL, Deployment : Streamlit cloud

Features

User can update their *Request list*, with product their in need and they get notification when Donor or Seller sells

The items common in multiple users request list, is mentioned in *Need*

section so that contributors can contribute

After purchase, using Lifecycle Assessment(**LCA**) tools **emission reduction** is estimated, e.g. second hand cotton *T-shirt* saves ~*2.1 kg CO2*, *laptop - ~150 kg CO2* *(1 credit = 1000 kg CO2 saved)*

Registration with *Carbon Registry – India* or International voluntary carbon credit standards like Gold standard or Verra   To receive **Carbon Offset Credits**

Revenue Streams

Carbon credits will be sold to **eco-conscious companies**(e.g., airlines, factories)   and 60% to Platform and 40% as Reward to Donors/Sellers with Eco-Coupons/discounts

(India 2024, 1M ton CO2 i.e., 1 credit = ~ 600-740 rupees)