

# Sharecare – A Digital Platform for Donating & Redistributing Essential Goods

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**Abstract:** Share Care is an online platform that connects donors with people or organizations in need. Users can donate items like clothes, books, food, and electronics instead of throwing them away. The platform ensures a simple and transparent process where donors list items and beneficiaries can browse and request them. It promotes sustainability, reduces waste, and encourages social responsibility through easy donation and communication features.

**Keywords:** Donation, Sustainability, Resource Sharing, Community Support, Waste Reduction

## I. INTRODUCTION

Sharecare is a digital platform designed to connect donors with NGOs and individuals in need by redistributing unused but functional essential goods. Many usable items in households and institutions go to waste, while underprivileged communities struggle to access basic resources. Sharecare addresses this gap through a centralized, transparent, and scalable system that enables donation, verification, and efficient distribution. The platform supports multiple categories, including educational materials, non-medical essentials, and assistive equipment. With features like authentication, item tracking, and logistics coordination, Sharecare promotes sustainability, reduces waste, and fosters social responsibility through technology-driven resource sharing.

## II. SYSTEM WORKFLOW

The workflow of the proposed ShareCare platform consists of the following major stages:

### A. Data Registration

Users including donors and NGOs register on the platform by providing necessary details. Authentication mechanisms ensure secure access and role-based functionality.

### B. Item Listing & Submission

Donors upload details of items such as category, condition, quantity, and images. The information is stored in the database for further processing.

### C. Verification Process

The admin reviews submitted items and user profiles to ensure authenticity, quality, and compliance. Only verified listings are made visible on the platform.

### D. Browsing & Request Handling

Verified NGOs or beneficiaries browse available items using filters and search options. They can request required items based on availability and need.

### E. Transport & Delivery Coordination

Once a request is approved, a suitable transport method (self-drop, NGO pickup, or volunteer support) is selected to facilitate item transfer.

### F. Completion & Tracking

After successful delivery, the transaction is marked complete by the admin. The system updates donation status and maintains records for transparency and impact tracking.

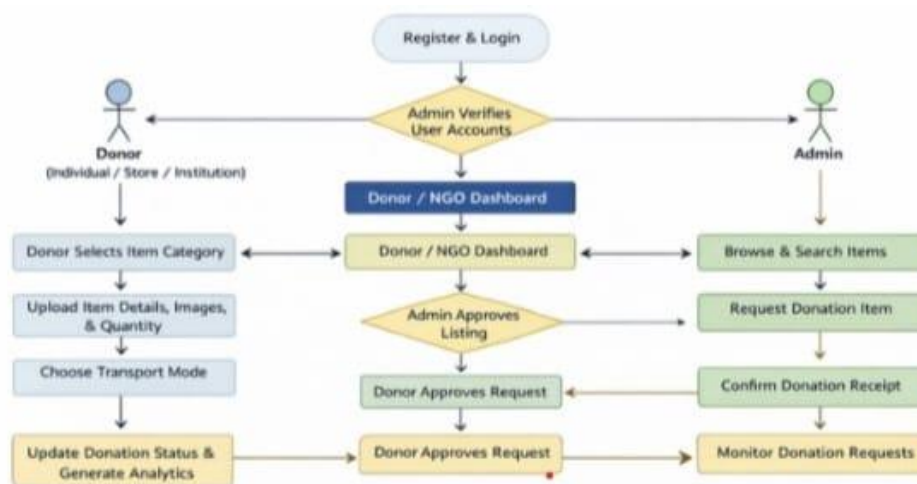
### G. Analytics & Reporting

The platform generates reports and visual insights on donations, categories, and user activity to measure social impact and system efficiency.

## III. FEATURES

1. **User Authentication:** Ensures secure login and role-based access for donors, NGOs, and admins.
2. **Item Listing:** Allows donors to upload item details including category, condition, and images.
3. **Item Verification:** Admin validates items and users to ensure authenticity and quality.
4. **Search & Filtering:** Enables NGOs to browse and find items based on category and availability.
5. **Request Management:** Allows receivers to request items and track approval status.
6. **Transport Coordination:** Supports delivery through self-drop, NGO pickup, or volunteers.
7. **Notification System:** Sends updates regarding item status, requests, and delivery.
8. **Donation Tracking:** Maintains history and status of all donations for transparency.
9. **Analytics Dashboard:** Provides insights into donations, usage, and overall impact.
10. **Scalable Design:** Supports multiple categories and future feature expansion.

## IV. ARCHITECTURE DIAGRAM



## V. TECH STACK

CATEGORY	TECHNOLOGY USED	DESCRIPTION
frontend	react	builds interactive and responsive user interface
frontend styling	tailwind css	provides modern and efficient ui styling
backend	node.js	handles server side logic and processing
backend framework	express.js	manages apis and routing efficiently
database	mongodb	store user, item and transaction data
authentication	jwt( json web token)	ensure secure user authentication and sessions
image storage	cloudinary	stores and manages uploaded item images
analytics	chart.js	visualizes data through charts and graphs

**VI. CONCLUSION**

Sharecare presents an effective and scalable solution for addressing the gap between surplus resources and unmet needs. By providing a centralized platform for donating and redistributing essential goods, it ensures that usable items are not wasted but instead reach individuals and organizations that require them. The system's features, including authentication, item verification, request management, and transport coordination, enhance transparency, efficiency, and reliability. Built using modern web technologies, Sharecare demonstrates how digital platforms can promote sustainability and social responsibility. Overall, it contributes to reducing waste and fostering a culture of sharing for greater community impact.

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