RecycleIt

"Clean the Earth, Feel the Earth"

Synopsis Submitted By:

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In partial fulfillment for the award of the degree of

Bachelor of Computer Applications(BCA)

In

Tilak Maharashtra Vidyapeeth (TMV)

Introduction :

The project entitled RecycleIt is developed as part of the VI semester for the partial fulfillment of the BCA degree. It is a web-based application designed to connect individuals, organizations, and scrap vendors to facilitate efficient scrap collection and recycling. The platform enables users to sell various types of scrap, schedule pickups, and receive competitive prices. Scrap vendors can manage collections efficiently, and the platform supports different payment modes, promoting a cleaner and more sustainable environment.

Statement of the Problem :

Waste management and recycling are major challenges in urban and industrial areas. Many individuals and businesses struggle to find reliable scrap vendors to dispose of their waste responsibly. Additionally, scrap vendors face difficulties in locating and reaching out to potential sellers. RecycleIt addresses this issue by creating a bridge between scrap sellers and vendors, ensuring seamless scrap collection, fair pricing, and easy transactions.

Objectives :

The main objectives of RecycleIt include:

- Providing an easy and efficient platform for users to sell scrap.
- Enabling scrap vendors to find and collect scrap from multiple locations.
- Offering secure payment modes (cash, online transactions).
- Ensuring hassle-free scheduling and doorstep pickup services.
- Reducing waste and promoting environmental sustainability.
- Allowing administrators to manage users, vendors, and transactions efficiently.

Scope

The application is designed for individuals, offices, colleges, and industries looking for a convenient way to dispose of scrap. Vendors benefit from a centralized platform to manage their scrap collection services. RecycleIt ensures that scrap collection is simple, cost-effective, and environmentally friendly.

Main Modules :

1. Admin Panel:

Manage users and vendors.

Oversee transactions and pickups.

Set pricing and payment methods.

2. User Registration & Login:

Users provide location, contact details, and scrap type

Option to register as an individual or an organization.

3. Scrap Vendor Registration & Login:

Vendors register to receive pickup requests.

Manage schedules and transactions.

5. Payment Module:

Supports cash and online payments.

Ensures secure transactions between users and vendors.

6. Notifications & Alerts:

Users and vendors receive updates on pickup schedules and payments.

Process Description :

1. Users register and log in to the platform.

2. They input scrap details (type, quantity, location).

3. The system matches users with nearby vendors.

4. Vendors accept requests and schedule pickups.

5. Payment is processed through cash or online methods.

6. The admin monitors and manages the platform for smooth operations.

Hardware Requirements :

- Personal Computer or Laptop Keyboard and Mouse

Technology Stack :

- Frontend: HTML, CSS, JavaScript, Bootstrap
- Backend: Node.js, or Python (Django/Flask)
- Database: MySQL, MongoDB
- Hosting: AWS, Firebase, or DigitalOcean

Limitations

- Availability of scrap vendors in certain locations may vary.
- Users need internet access to use the platform.

Advantages

- Provides an efficient and structured scrap-selling process.
- Ensures fair pricing and transparency.
- Promotes environmental sustainability by encouraging recycling.
- Offers doorstep scrap collection, saving users time and effort.
- Provides secure payment options.

Conclusion :

RecycleIt is an innovative and practical solution for managing scrap efficiently. It connects users with scrap vendors, simplifies transactions, and promotes environmental responsibility. By integrating technology into waste management, RecycleIt contributes to a cleaner and greener planet.