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# Web Based Scrap Handling System Using ML

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### **ABSTRACT**

Using the web-based online platform known as Scrap Collector, free scrap collection and recycling services are offered door to door. Scrap Collector offers a number of Sectors, including Individual Houses, Societies, Businesses, and Industries. Give away used paper, plastic, metal, and glass as well as other recyclable materials in an eco-friendly manner. Scrap Collector (SC), an app and web-based online portal, offers the first free door-to-door scrap collection and recycling service in India. The scrap collector makes the conventional approaches to waste paper collection transparent. We now employ electronic weighing scales at the doorsteps of our clients. At Scrap Collector, we put the needs of our customers first. To do this, we strive to provide the best pricing, precise weights (using an electronic weighting system), and a 100% guarantee that the waste materials supplied by our clients will be recycled. We pay fair prices for scrap paper of all varieties, including newspapers, notebooks, magazines, steel, brass, glass, iron, and plastic. I promise you'll see a scrap within 24 hours. Customers can purchase any used item or household appliance at a discount on our product website. A bedding procedure is also a part of this project. Any customer can utilise the chatbot to communicate with us. The main aspect of this system is that customers can donate used clothing, books, or other items to non-profit organisations. If any consumers want to donate something to an NGO but they don't want to give it away for free, they can sell it to us and we'll give it to the NGO for free. We have a connection to the NGO team. The scrap will be collected by the collector at the designated place, and the admin will complete the transaction immediately in the customer's name.

Keyword: Web-based interface, door-to-door collection system, and Scrap Management.

# 1. INTRODUCTION

A web-based online portal called Scrap Collector offers free door-to-door scrap collection and recycling services. A scrap collector offers services to a variety of sectors, including households, society, businesses, and industries. All of your spent recyclables, including scrap metal, glass, plastic, and paper, should be donated. The first mobile app and web-based online site for free door-to-door scrap collection and recycling services in India is called Scrap Collector (SC). The traditional methods of collecting waste paper are made transparent by the scrap collector [2].

The first mobile app and web-based online portal in India for door-to-door free scrap collection and recycling services is called Scrap Collector (SC). We offer affordable pricing for the purchase of scrap paper of all types, including newsprint, notebooks, magazines, steel, brass, glass, iron, and plastic at reasonable prices. The NGO team is connected with us. When a customer registers on our website in order to sell scrap, a collector will come to the specified place and collect the scrap. To sell the scrap here, we don't need to wait for the scrap collector or go very far. Here scrap collector comes when we request them according to our convenience and collect all the scrap and create two receipts with all details and submit one to customer second to administration with sign of employee. Then according to given weight admin will be transfer the money to customer account With the help of this application, scrap collection is assured to happen within a day. Scrap is the term used to describe recyclable materials that are left over after the consumption of any kind of product, including auto parts, building supplies, surplus items, clothing, eyeglasses, and e-waste[3].

# 2. RELATED WORK

Users need to travel to a scrap collector shop if they have scrap in their homes or areas, such as paper scrap, plastic scrap, iron scrap, steel scrap, and many more. This method requires more human effort and takes longer. According to the current system, customers who have scrap in their homes or neighbourhoods, such as paper scrap, plastic scrap, iron scrap, steel scrap, or other types, must visit a scrap collecting store. This method requires more human effort and takes longer. After weighing the scrap with the aid of an electronic

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scale, a customer uses a web-based scrap handling system to send an employee to collect the scrap and get payment online. To ensure that the consumer is paid fairly, the price of the items is disclosed.

#### 3. PROPOSED WORK

I discovered that our nation's recycling sector operates in compartments. But for practically every family, waste management has developed into a concern. Services for collecting scrap from various sectors, such as households, societies, businesses, and industries. After that, we started a project called "scrap collector," which means we gather waste materials including paper, plastic, books, glass, iron, and steel. The area for disposing of waste paper has not yet been organised. Several individuals use this application to save time and make money. Scrap collectors have developed a creative, well-organized waste paper gathering and recycling system that transforms and goes far beyond traditional waste paper disposal.

## **Advantages of Propose System:**

The application is a snap to use for any user (admin, client, or scrap collector).

- User-friendly and simple to comprehend system.
- The user's Android device can also be connected.
- The user can quickly connect to the system.
- Customers can donate any form of scrap while sitting at home.
- The NOGs are connected to us for any donations that customers desire to make to NGOs.
- Any consumer can utilise our product site to acquire anything at a reduced price if they wish to buy a used item. Customers can wager on a product if they are dissatisfied with the price.

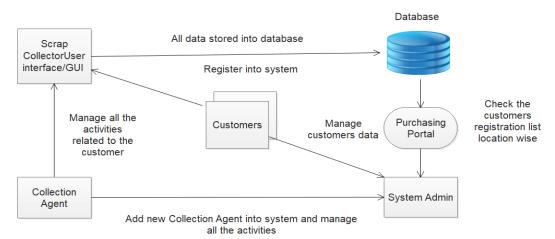


Fig 1: Block Diagram.

Door-to-door free scrap collection and recycling services are provided via the web-based online portal known as Scrap Collector. Different Sectors, such as Individual Homes, Societies, Organisations, and Industries, are provided by Scrap Collector. Give away your recyclable waste in an environmentally beneficial method, such as used paper, plastic, metal, and glass. The first web-based online portal in India for free door-to-door scrap collection and recycling services is called Scrap Collector (SC).

The traditional methods of collecting waste paper are made transparent by the scrap collector. At the doorsteps of our customers, we now use electronic weighing scales. Customer satisfaction is our top priority at junk Collector, and we work to achieve it by offering the best prices, accurate weights (using an electronic weighting machine), and a 100% guarantee that the junk material supplied by our customers will be recycled. We buy scrap paper of all kinds—newspapers, notebooks, magazines, steel, brass, glass, iron, plastic, etc.—at reasonable prices. Within 24 hours, a scrap must be guarded.

We need a GPS network, a smart phone, hardware, and a microcontroller to construct our system. A GPS network, or global positioning system network, is a decentralised network used to track scrap in terms of location, including iron, steel, paper, plastic, aluminium, and electrical wires. The scrap data information is collaboratively transmitted across the network to a main server, or admin portal. For free scrap collection and recycling services delivered door to door, we must create a web-based online portal. Different Sectors, such as Individual Homes, Societies, Organisations, and Industries, are provided by Scrap Collector. Give away your recyclable waste in an environmentally beneficial method, such as used paper, plastic, metal, and glass.

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## 4. RESULT



Fig No:2 View Scrap Request by Admin Panel

Fig 2 shows that Admin can view the Scrap Request that requested by customer and allocate the collector to proceed further collection of scrap.



Fig No:3 User Panel

In this Panel user can view request, user can shop any product, user can sell the scrap by register the addresses and quantity of scrap.

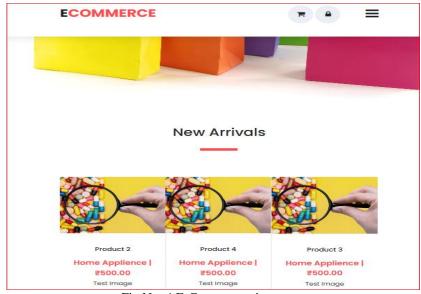


Fig No: 4 E-Commerce site

In fig 4 User can shop the product by using E Commerce Site.

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#### 5. CONCLUSIONS

Scrap Collector (SC) is the India's first App and Web based Online Portal for door to door Free Scrap Collection and Recycling Service.

In this application scrap collector will comes to our lives and collect the scrap. Here we don't have to wait for scrap collector or we don't need to go for sell the scrap. Here scrap collector comes when we call them according to our convenience and collect all the scrap and give money at that time.

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