Abstract

The project entitled EcoDen is an E-waste management website based on python. It can be used as an alternative way to collect E-waste from people and a place where people can purchase recycled products such as home accessories, masks, stationary, and upcycled bags.

This system is built on the basis of 3 major entities. Admin, Collection agents/ Delivery agents, customers. Admin has authorised control over the system. He or she can be logged in or registered into the system and able to view information regarding customer, staff. Update products, Coordinate agents to collect and deliver products. Collecting agents or delivery agents can use the system using a log in. They can view the location of customer, Details about vehicle they are using and partner(s) they are paired with. Unregistered customers can only view the homepage of website. Registered users can use pickup options and purchase products by making payment.

Functionalities: -

1. Admin

* Login/Register
* Admin profile

Profile edit option is only available to admin

* Access to information regarding customers
* Access to information regarding collecting agents/delivering agents
* Staff register maintenance

Attendance of staff

Payment details

* Daily and weekly reports
* To allot vehicles for collecting or delivering products
* To allot partners
* Add/remove products

Product description

* Maintaining bills
* Logout

1. Collecting agents/Delivering agents

* Login/Register
* Agent profile
* Profile edit option is only available to agents
* Pickup/Delivery location

Necessary information(Name,Phone No,Address) regarding customers.

* View allotted vehicle numbers
* View allotted partners
* Logout

1. Customer

* Login/register

Users who is not registered can only see/use website homepage

* Customer profile

Registered customers can edit their profile.(Only customers can edit)

* Use Pickup option

By clicking pickup option customers can use their address in profile itself or use a new address.

* View products

Read product description

* Add products into cart
* Purchase products

Choose no of quantities

Make payment

* Write feedback
* Logout

Natural System:

E-waste collecting mechanism prevailing in Guruvayur Muncipality is that collecting agents will come to each house once in six months to collect E-waste and they will succeed collecting E-waste in a locality in one day. Because of this vast duration E-waste will be contaminating the surroundings or their place for about six months.

Existing System:

E-waste recyclers India (EWRI) is an E- waste management system whole over India which contains agent names and numbers to pickup trash. EWRI will succeed collecting trash through the major cities along India and the collected trash will be given to recycling.

EcoDen will be a huge step towards sustainable development as E-wastes are a big threat to our economy. In brief using EcoDen we can create a systematic method to collect E-waste, to recycle them and to sell them. Through this system our E-waste management can be partially standardised and thus boosts economic growth.