**CAPSTONE PROJECT**

**CSE-445**

A picture containing text, sign, vector graphics

Description automatically generated

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**Project Name: Trash to Treasure (Website)**

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**Topic :-**

Our topic i.e. , “Trash to Treasure” is an E-commerce website that aims to be a platform where people can sell their old or scrap items. From our website, an artists can buy those scrap items and customize that scrap items to make useful and decorative items. These creative items can be sold on website itself and other people can buy these items. It help people to earn by selling their scrap, it help the artists to buy stuff on cheap rate and earn money by showing their creativity on it and it will also promote initiative of **#VocalForLocal** and make the world ***“a better place”*** by recycling old items

**Description :-**

* Our website is divided into two main sections: Creative Store and Scrapyard.
* A user can sell any of his useless things or scrap items on the platform by creating an item, this will be displayed in scrap yard section of the website.
* A user who is an artist can sell his own creative items like arts, crafts and customized material by posting them on creative section of the website.
* A user can also buy scrap items and can customize it to turn it into something useful and decorative stuff and can sell it on the creative store with value addition.
* A user can buy this creative and decorative items from the creative section.
* Badges like the best artist of the month, best scrap seller of the month, creator of the month, etc. will be assigned to the users whose items are sold more.
* The categories of creative items are based on the usage of items, for example Home décor, Jewelleries, Lifestyle, etc. and the categories of scrap items are based on the material used in that item like wood, rubber, metal, glass, paper, etc. so that a user can easily search item he/she is looking for.

**Area of Specialization of Topic:-**

1. **HTML :** (**Hyper Text Markup Language**) is the code that is used to structure a web page and its content. For example, content could be structured within a set of paragraphs, a list of bulleted points, or using images and data tables.
2. **CSS :** (**Cascading Style Sheet)** is a stylesheet language used to describe the presentation of a document written in HTML or XML (including XML dialects such as SVG, MathML or XHTML). CSS describes how elements should be rendered on screen, on paper, in speech, or on other media.
3. **JavaScript :** JavaScript is a text-based programming language used both on the client-side and server-side that allows you to make web pages interactive. Where HTML and CSS are languages that give structure and style to web pages, JavaScript gives web pages interactive elements that engage a user.
4. **React.js :** React is a library for building composable user interfaces. It encourages the creation of reusable UI components, which present data that changes over time. React implements one-way reactive data flow, which reduces the boilerplate and is easier to reason about than traditional data binding.
5. **React-Router-Dom :** React Router DOM is an npm package that enables you to implement dynamic routing in a web app. React Router Dom is used to build single-page applications i.e. applications that have many pages or components but the page is never refreshed instead the content is dynamically fetched based on the URL. This process is called Routing and it is made possible with the help of React Router Dom.
6. **Node.js :** Node is an open source development platform for executing JavaScript code server-side. Node is useful for developing applications that require a persistent connection from the browser to the server and is often used for [real-time applications](https://www.techtarget.com/searchunifiedcommunications/definition/real-time-application-RTA) such as chat, news feeds and web push notifications.
7. **Express.js :** It is a web application framework that provides you with a simple API to build websites, web apps and back ends. Express provides a minimal interface to build our applications. It provides us the tools that are required to build our app. It is flexible as there are numerous modules available on npm, which can be directly plugged into Express.
8. **MongoDB : It** is a document-oriented NoSQL database used for high volume data storage. Instead of using tables and rows as in the traditional relational databases, MongoDB makes use of collections and documents. Documents consist of key-value pairs which are the basic unit of data in MongoDB.

**Nature of Project:-**

* General

**Research Gap:-**

There is currently no such as existing system where a user can sell their used item or scrap and from which the artist can buy those scrap and can recycle it and turn it into a creative useful item. There are also some websites where user can sell scrap and their used items, some of them buy scrap from the user at very low fixed prices and none of them are material-centric so they are not so preferable platforms where an artist can search and can buy materials from.

But, in our website we will allow users to sell their scrap things and the artists to do some creative work on the same and sell the product on our website. It would be like an income source for the artists as well the user. Our system promote recycling by providing a platform for artists and designers where they can buy old items or scrap items at cheap rates and recycle them to create usable things.

**Novelty:-**

There is currently no such as existing system where a user can sell their used item or scrap and from which the artist can buy those scrap and can recycle it and turn it into a creative useful item. There are also some websites where user can sell scrap and their used items, some of them buy scrap from the user at very low fixed prices and none of them are material-centric so they are not so preferable platforms where an artist can search and can buy materials from.

**Project Outcomes:-**

* **Handmade items:** A person can sell their handmade arts and stuffs in our platform this is the way they can earn and grow.
* **#VocalForLoca**l: It is the tool for growth of our country. We promote products of independent artist locally.
* **Recycling:** One can sell their old items or scrap on the platform, which in return can be recycled by anyone.
* **Platform for an Independent Artist:** An artist can add their art or product made by them on the platform for selling it. It can be anything repaired and decorated mug, a customized soap, sketches or anything that they have touched creatively.
* **Platform for user to earn through Scrap:** Any user can add their scrap or old items on the platform for the other users to buy them. So, that a artist don't face any difficulty to find any scrap.
* **Platform for Turning best from the Waste:** The scrap that is added by our user “ ” can be bought by anyone, maybe another user, maybe a artist, maybe a designer. This scrap will customized and recycled and turn into something useful. Some best from the best artist may but this crap and turn it into creative item and sell it on the “ ” and earn money by selling it