



# SHRI VAISHNAV VIDYAPEETH VISHWAVIDYALAYA

SHRI VAISHNAV INSTITUTE OF INFORMATION TECHNOLOGY, INDORE



**VOID HACKS ( ) 4.0**

# WELCOMING YOU ALL IN THE SHORTLISTING ROUND.

Here we are with 2 problem statements. Your team is required to solve any one problem. The solution should be provided in the ppt itself. You are required to provide the complete solution containing your approach, code as well as screenshots of the working solution. You also need to give the solution use case and technology stack used in your solution.





## TEAM NAME: WEB-WARRIORS(MU-GDSC)

### MEMBER DETAILS:

Amala Sebastian

Anushka Mittal

Atharv Vani

Vaibhav Chaubey

# PROBLEM STATEMENT 1

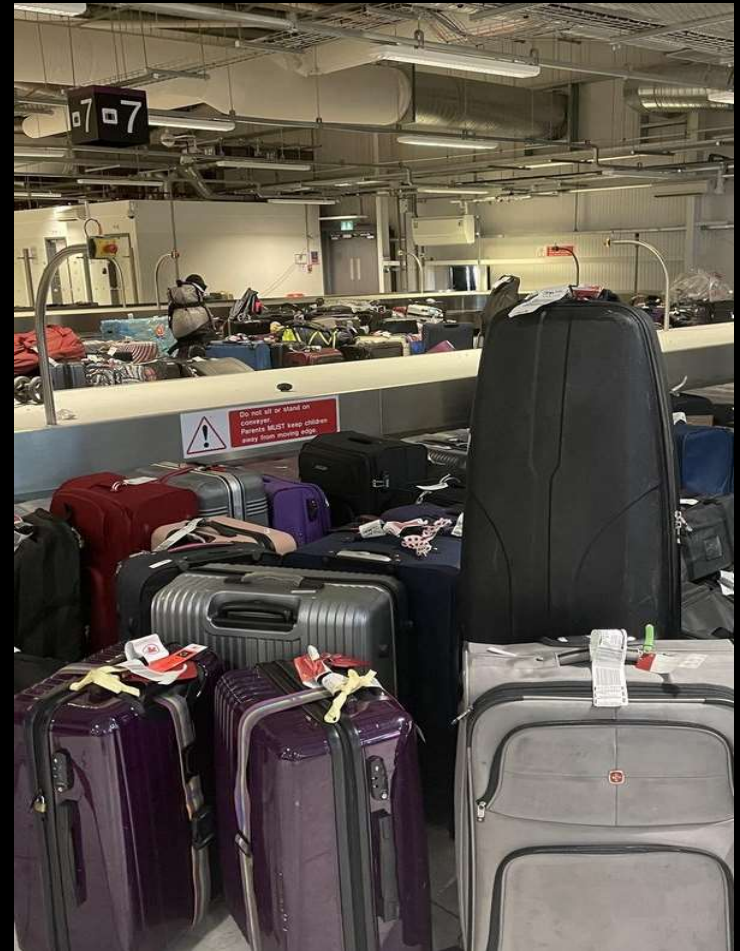
According to a report of 2022, electronic waste (e-waste) is the fastest growing form of domestic waste globally, with around 150 million metric tones being produced in 2021 alone, of which only 25% was recycled. This is environmentally and socially problematic. You need to propose a system that can resolve this problem and citizens can use that directly without getting involved of third party.





## PROBLEM STATEMENT 2

Roshni is an employee of TCS India, She is working in the USA on some projects with Bank of America. At the time of her return to India, she had a lot of bags with her. According to the rules some airlines also enforce weight limitations, typically starting at 5kg/11lbs. She doesn't want to pay that amount because it covers a very larger amount equal to the price of one more person's ticket. To avoid that charge she needs a solution. The task is to find a solution for her to save some money without getting her bags lost and damaged.



# PROBLEM STATEMENT NO.: 1

## SOLUTION & INNOVATION:

### What is the idea?

The objective of the website/ Webapp is to educate people about numerous disposal choices for proper e-waste disposal/recycling. It primarily gives customers three alternatives. They can **call ITAD** (IT Asset Disposition useful for organizations/companies/universities), **dispose of the material at nearby landfills** or **sell their equipment to a new user** for a fair price.

### Why is this a problem that has to be addressed, and how are we going to solve it?

E-waste contains abandoned electronic devices and equipment which consist of hazardous chemicals and non-biodegradable substances. This is an important issue that must be addressed in order to provide a sustainable ecosystem. As a result, our solution aids in the resolution of this issue. It primarily provides customers with three options. More information is provided in the following slides.

The following slide is a preview of our service page.

## Our Services



### Sell your device

Sell your equipment to a new user  
for a fair price



### ITAD

Contact IT Asset Disposition (Applicable  
organisation/companies/universities)



### Discard the waste

Contact a nearest landfill or drop-  
off location



## How we will achieve it?

The website has the following characteristics:

**Service page** –There are three options on the service page.

1. Sell your device
2. ITAD
3. Discard the waste

By selecting the first option, **Sell your device**, the user will be taken to a new page that requests information about their device. This information will be posted on the website. People who accept the device models can buy them for a fair price. This helps in reusing the e-waste generated. This is one of the best methods of recycling.

By selecting the second option, **ITAD**, large organizations or even ordinary consumers can obtain a list of all the ITAD (IT Asset Disposition) near their location, together with links to their websites, which will be displayed. They can contact them and send them their e-waste. The latter may be rewarded by the ITAD company policy chosen.

By selecting the third option Users can obtain information such as the location of neighboring landfills and drop-off places. Additionally, An e-waste calculator will be available to calculate the amount of e-waste that can be recycled based on the device selected and the total weight of the item.



Sell your device



Upload device image

Do you want to BUY?

Device Model

Device type

Device memory

Device Condition

expected price

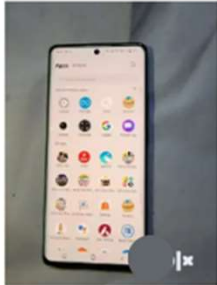
date of manufacture

**SUBMIT**

[Do you want to SELL?](#)

BUY NOW

FEATURED



₹ 35,999

One handed phone fully condition purch...

MARWARI TOLA, BAGAHA

SEP 21



₹ 4,500

Acer 10inc mini laptop for sell in just 450...

KALYAN, THANE

TODAY



₹ 14,500

Hp 14inc i5 laptop for sell with 8gb ram i...

KANDIVALI WEST, MUMBAI

TODAY

# ITAD

## FOLLOW THE LINK TO SEND YOR E-WASTE TO ITAD

- I-T dept Indore region may go for IS certification - Times of India <https://timesofindia.indiatimes.com › indore › articleshow>
- Apto Solutions: IT Asset Disposition <https://www.aptosolutions.com>
- Ingram Micro India Pvt Ltd (E-Waste Facility) ITAD Life-cycle ... <https://digitalmarketingdeal.com › listing › ingram-micr...>



# Disposal of waste

Enter your location



## Garbage Dumping Station

No reviews · Garbage dump

QVCC+3QW

Closed · Opens 9AM Sun



Directions

## Garbage Dump

No reviews · Garbage dump

PWC2+88W, Kanadia Rd



Directions

## Garbage Dump

No reviews · Garbage dump

PW94+PJ4, Service Rd



Directions

More places →







The website has the following characteristics: --continued

- 2) API data - Many individuals are not aware of how e-waste affects the environment. To demonstrate the effect of e-waste, the numerical quantity of them must be displayed. As a result, the graph will be displayed using an API.
- 3) Communities - There are many groups, such as saahas, MeitY - Government body that are enthusiastic about this; we need to give those communities an audience from our end. Many areas will be running campaigns, and people can join webinars to learn more about disposal techniques. The matter will be discussed in colleges and school socio-clubs, and it will then be spread to other students in the college. People that sign up for the communities benefit from receiving newsletters as a reward.
- 4) The website will provide details on the three R recycling initiative as well as other new government recycling regulations. The website will also include blogs and news articles about this subject.
- 5) We'll also give folks the option to create blogs; the best bloggers will have the possibility to have their blogs featured on the website.
- 6) Essay contests and blog writing competitions will be held to draw attention to this issue. This step will help us promote the website and raise awareness of the relevant issue.



# SOLUTION USE CASES

What are the benefits it can offer?

- Manageability and Usability for the user for proper disposal of E-waste
- Awareness of the issue
- Direct interaction between users via buying/selling the e-waste product
- They will also get some perks for recycling the waste
- This will help in the reduction of e-waste (Reusability).
- Google Authentication and google Ad sense will be added in the future for proper management and marketing of the website



# TECHNOLOGY STACK

- • Frontend: React JS, CSS(Tailwind),Particle JS, GraphQL (CMS)
- • Backend: Express JS, NodeJS, API, MongoDB
- • Testing: Postman
- • Deployment: Jenkins Git GitHub/Heroku
- Authentication/Sign-in/sign-up: Google 2.0 Auth