E-Waste Identifier

CS 160, Group 4 Team Name: F4

TEAM MEMBERS



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PRODUCT MANAGER
BACK-END



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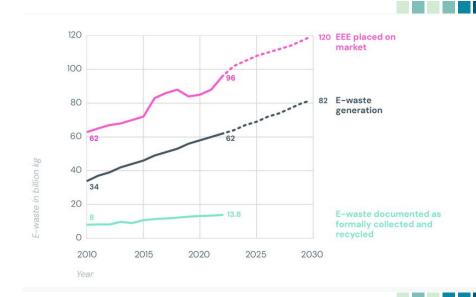
William Ngo REPAIR & UI/UX FRONT-END

E-WASTE STATISTICS

• **62 million tons** in 2022

Predicted to increase by 32% to 82 million by 2030

 Only 1% of rare earth element demand is met by recycling



EVEN MORE STATISTICS

31% of Americans have unused old devices.

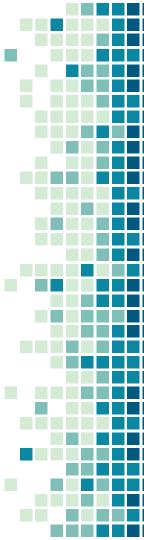
• **37%** trade in or exchange their old devices.

• **29%** use proper disposal services.



PRODUCT GOAL

- Help manage old electronic devices
- Bring awareness to the environmental problem of e-waste pollution
- Provide recycling and repair solutions to electronic devices



VISION STATEMENT

For all electronic device owners of any repair experience

Who wants to fix their electronic issues or recycle them,

The E-Waste Identifier is a web application

That provides all-in-one interactive platform for repairing and/or recycling their old electronic devices.

Unlike existing platforms that provides one or the other,

Our product incorporates troubleshooting solutions along with easy-to-navigate user interface that will bring awareness to the issue of e-waste pollution.



MAIN FEATURES

TROUBLESHOOTING GUIDE

REPAIR GUIDE LOCAL REPAIR SHOP & RECYCLING CENTER LOCATOR



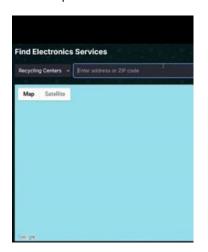




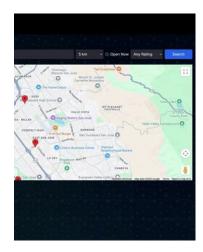


INTEGRATED MAPS PAGE

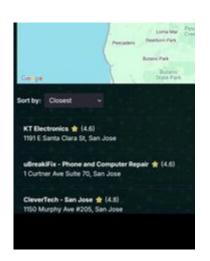
Search for Recycling or Repair Centers



Filter Search Criteria with Live Updates



Sort Search Results



OUR TECH STACK

TYPESCRIPT

GOOGLE MAPS & PLACES API

IFIXIT API

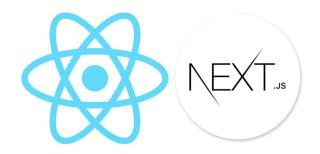






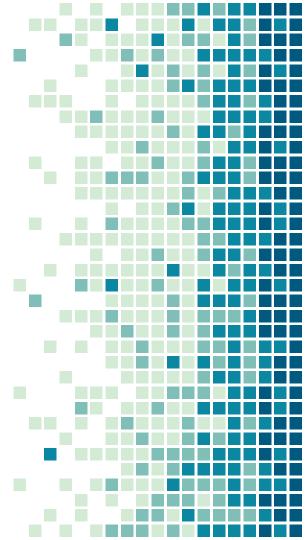
REACT/NEXT.JS

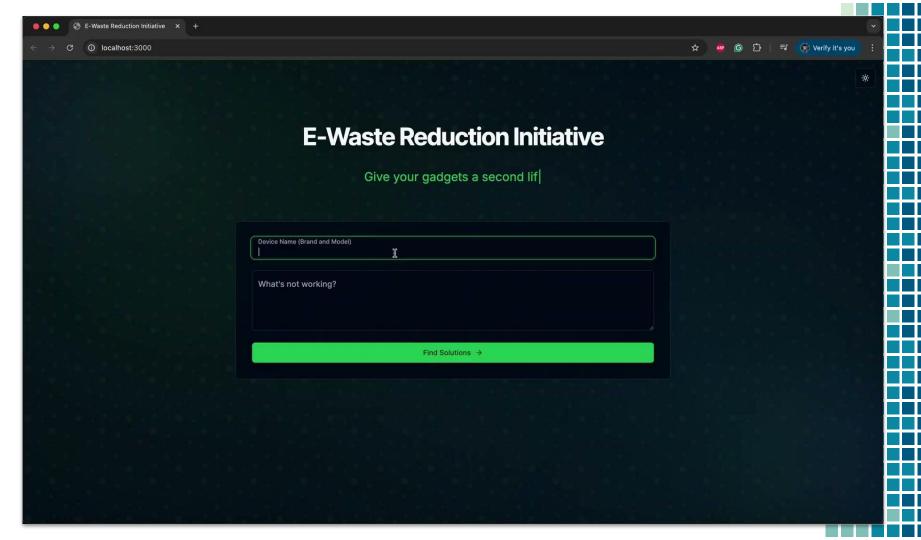
GOOGLE GEMINI API





APPLICATION DEMO





FUTURE IMPROVEMENTS

- Faster Response on the Google Gemini API
- Price Estimates on Repair Shops
- Device Replacement Suggestions



THANKS!

Any questions?

