

IEEE SSH 2024

HACKATHON

Team name: Coding Enthusiasts Team Members name:

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Problem statement

The world generated **62 million tonnes** of e-waste in 2022, and this figure is projected to rise to **82 million tonnes by 2030.**

Global E-Waste Monitor 2024

- ❑ E-waste is rapidly growing, with over **50 million tons** generated annually.
- ❑ Current disposal methods are **ineffective** and **lack user engagement.**
- ❑ The need arises for an **interactive platform** featuring real-time **e-waste tracking, educational resources,** and gamified elements to encourage **recycling, locate collection centers,** and promote **sustainable e-waste practices.**

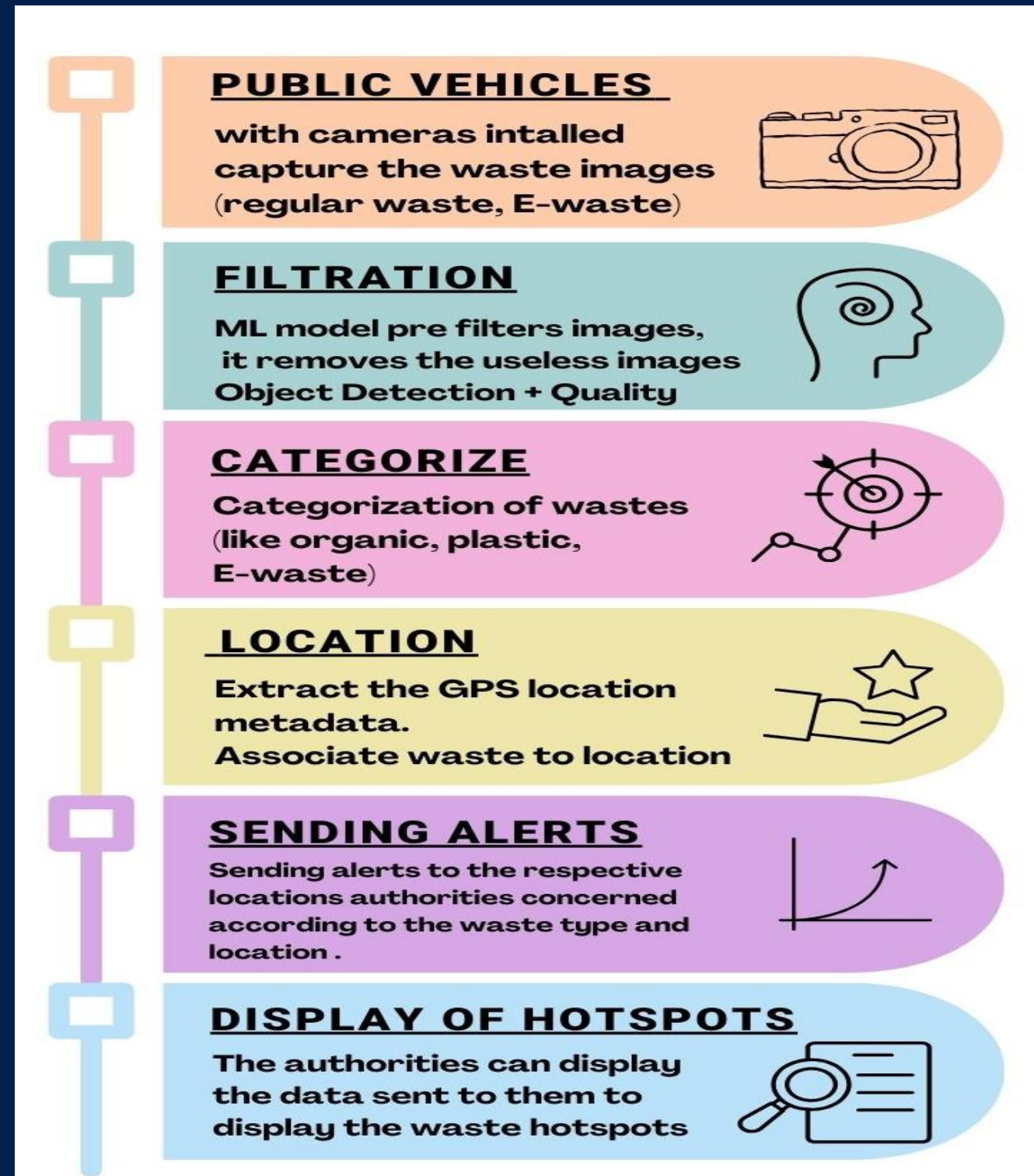
Only about **22.3%** of this 62 million tonnes waste is properly recycled, **wasting** around **\$62 billion** worth of valuable resources annually.

Solution

Interactive E-Waste Management

- Developing a user-friendly and interactive platform that transforms e-waste management into an engaging experience.
- The solution features real-time tracking of e-waste, educational resources on responsible disposal, and gamified elements to motivate recycling.
- Incorporation of tools for finding collection centers, earning rewards, and participating in recycling challenges to enhance user engagement and promote sustainable e-waste

WORKING OF PLATFORM:



USER INTERACTION:



USP



Real-Time
E-Waste Tracking



Educational
Resources



Gamified Recycling



Collection
Center Finder

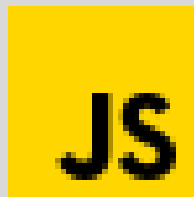
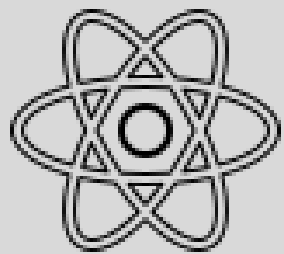


Reward System

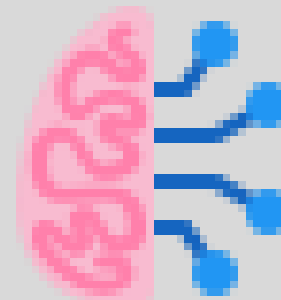
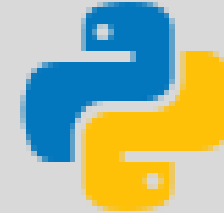
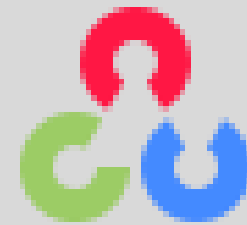


Community
Challenges

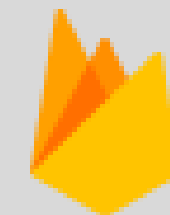
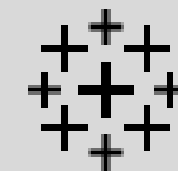
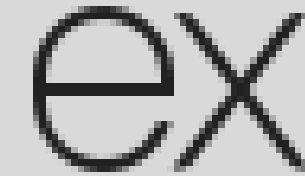
Tech Stack



FRONTEND



MACHINE LEARNING



BACKEND

Future aspect

AI-Powered Recycling Suggestions

Personalized tips via AI, boosting engagement and user retention.

Sustainability Education Hub with Sponsored Content

Rewards users with redeemable points, fostering brand loyalty and partnerships

Blockchain for Secure Recycling Data

Ensures transparent, traceable e-waste processes, building user trust and partnerships.

Gamified Recycling Rewards Program

Offer sponsored educational content, generating revenue and promoting sustainability awareness.

Corporate Partnerships & Bulk Recycling Programs

Partner with businesses for bulk recycling, generating new B2B revenue streams.



Thank You