AI-powered Waste Management System

WASTE
ZERO
BANGLADESH

Let's Build a Sustainable Future
For Bangladesh

Presentation by
IUT_ACCESS_DENIED

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Definition of
WASTE
ZERO

Zero waste is an approach that aims to reduce waste as much as possible. This concept emphasizes practices such as waste report, collect, recycling and reuse to minimize the environmental impact of human consumption activities in Bangladesh

ZERO WASTE IMPORTANT?

Bangladesh, grappling with one of the most challenging waste disposal systems, urgently needs zero waste initiatives to combat environmental degradation. The "Waste Zero Bangladesh" app aims to foster a sustainable, eco-friendly society, ensuring long-term environmental benefits for us.

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5 CONCEPTS OF ZERO WASTE

report waste

collect waste

recycle

reuse

certification

REPORT

- User can report waste in their locations by uploading a picture

- AI will help to estimate waste weight and estimate the waste type , making it easy to report waste for us.

COLLECT

- User can collect the reported waste from different locations by uploading a picture

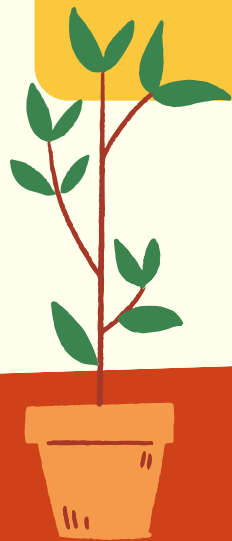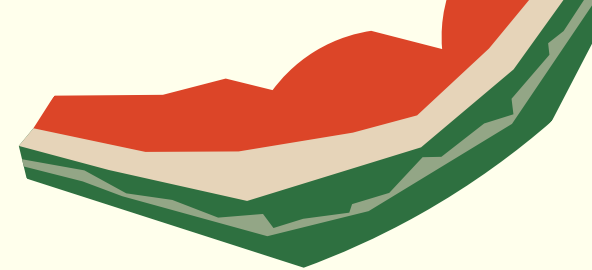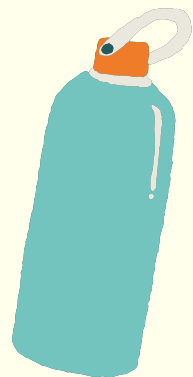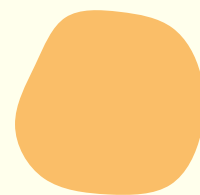- AI will verify the collected and reported waste , making it a smooth experience for users

RECYCLE

- Support recycling as a way to reduce waste.

- Ensures selection of recyclable products and active participation in recycling programs.

CONSUME LESS

CREATE MORE!

RE-USE

- Reduce the use of single-use items and optimize resource use.

- Choose products with more durable designs to reduce the need for repeat purchases.

CERTIFICATION

CERTIFICATE

- Encourage the use of compost for plants.

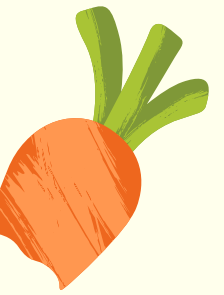- Composting organic remains to reduce the amount of organic waste entering landfills.

TECH STACK:

FRONTEND: NEXT.JS 14, TAILWIND CSS

Fast, scalable, and visually appealing user interface.

BACKEND: NODE.JS, DRIZZLE ORM

Efficient backend for real-time data handling.

AI TOOL :   GOOGLE GEMINI AI
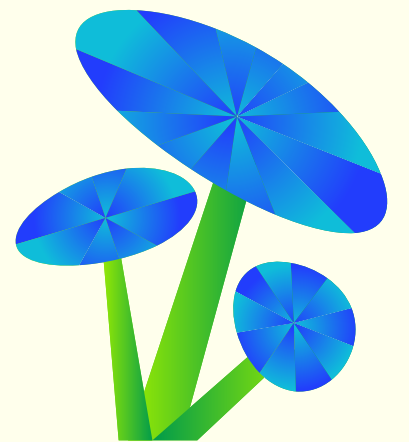
Accurate waste classification and weight estimation.

DATABASE: NEON DATABASE

Scalable, secure, and serverless PostgreSQL.

AUTHENTICATION: WEB3AUTH

Decentralized and secure user authentication

THANK YOU