





EcoSense

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Introduction

EcoSense aims to be a web platform for individuals looking to live more sustainably without being overwhelmed by unrealistic lifestyle changes. By turning everyday decisions into opportunities for positive impact, our app provides users with accessible tools that encourage environmentally conscious habits. Whether you're just starting your green journey or looking to learn more, EcoSense makes sustainable living simple, practical, and rewarding.

- Home Page
 - Waste Sorting Quiz
 - Carbon Footprint Calculator
 - Information Page + External Resources
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Meet the Team



David Song

- Set up the repository, created the React app, designed the responsive homepage with dynamic fact rotation system and interactive feature cards, and built the info page


Mithi Pandey

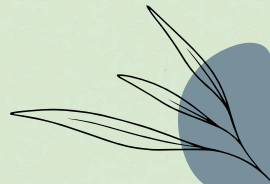
- Created CSS animations and styled UI components, implemented unit testing and integrated visualizations for all key features (ie. carbon footprint calculator results) to enhance user understanding and functionality

Shreya Raj

- Built the carbon footprint calculator with accurate emission factors and calculations, and responsive user feedback based on personal footprint results

Erica Xue



- Created the waste sorting quiz with decision paths to improve waste management and disposal knowledge, and curated questions that address a range of common products
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Feature #1- Waste Sorting Quiz

The waste management quiz helps users determine the proper way to dispose of common household items

- On average, over 25% of waste is too contaminated for recycling channels and is diverted to landfills
- This feature promotes proper waste disposal habits and reduce contamination in recycling and compost bins

Waste Sorting Quiz

Is it a battery, light bulb, or electronic item?

Yes

No

Waste Sorting Quiz

Take it to a disposal facility near you! ⚠️

Try Another Item

Feature #2- Carbon Footprint Calculator

The carbon footprint calculator helps users get a better understanding of how their everyday habits impact the environment

- Allows users to see their carbon footprint and identify which lifestyle choices contribute the most to their carbon emissions
- Encourages users to reduce their carbon emissions by comparing them to a general population baseline

Carbon Footprint Calculator

Electricity Usage (kWh/month):

Car Travel (miles/month):

Flight Travel (hours/year):

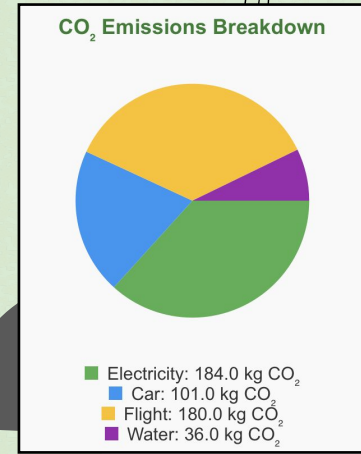
Water Usage (gallons/day):

Your Monthly Carbon Footprint: 13103.60 kg CO₂

Yearly Estimate: 157243.20 kg CO₂

Global Average: 4000 kg CO₂/year

Your footprint is above average. Consider reducing energy use!



Feature #3- Home Page

- The feature cards and Navigation bar at the top of the page allow users to easily access our features
- The mission statement provides insight into why our team created EcoSense, and our “fun facts” box aims to educate users on environment-related information



Did You Know?

The average American generates about 4.9 pounds of waste per day.

Our Mission

We believe that small actions lead to big changes. EcoSense provides accessible tools and information to help everyone understand their environmental impact and make informed choices for a sustainable future.

91%

of plastic isn't recycled

70%

of waste can be recycled

Our Features



Waste Sorting Quiz

Test your knowledge on proper waste disposal.

Explore



Carbon Calculator

Find out your carbon footprint and discover ways to reduce it.

Explore



Eco Resources

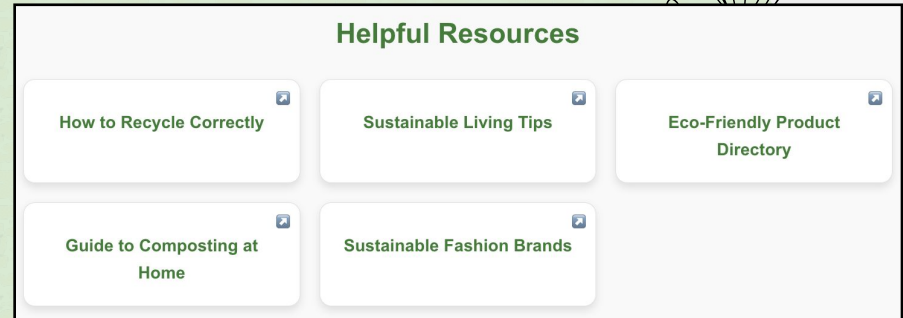
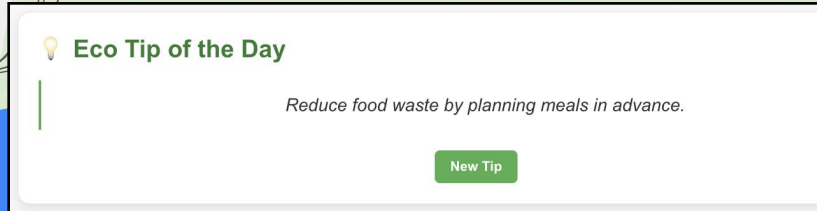
Explore helpful resources and tips for sustainable living.

Explore

Feature #4- Info & Resources Page

The information and external resources page is a hub of information that provides further reading and accessible knowledge for users that want to venture beyond the in-app features

- The tip of the day teaches our users to live sustainably through small steps that are easy to adopt but still make a meaningful impact
- The resource section includes websites that our users can explore to further their knowledge of the environment





Demo of the Application:



EcoSense

[Home](#)

[Waste Sorting Quiz](#)

[Carbon Calculator](#)

[Info Page](#)

Welcome to EcoSense

Your guide to sustainable living

Explore our interactive tools to learn about environmental impact, waste management, and eco-friendly practices.



Did You Know?

Around 91% of plastic is not recycled and ends up in landfills or the ocean.

Our Features





Thank you!