

ReSort

Team 7

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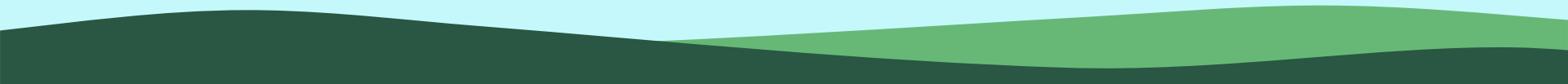
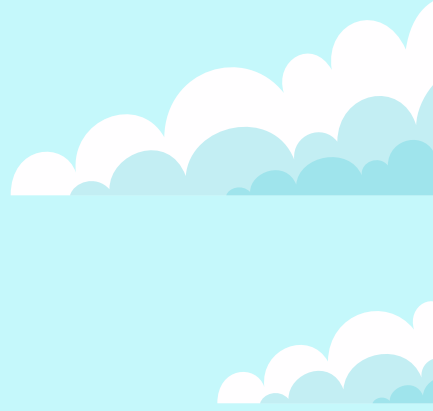
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Team + Responsibilities



Team Responsibilities



Jeremy - Gemini API Integration and Tips Page

Nikki - Database and History Management

Rajiv - Frontend and User Authentication


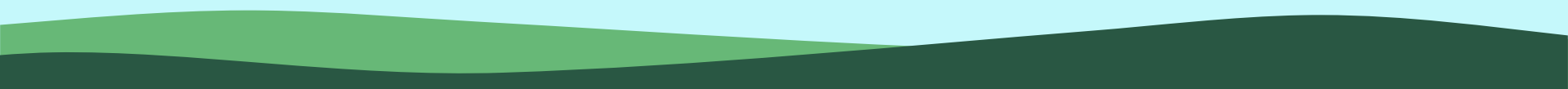


02 ReSort



What is ReSort?



- Resort is a smart waste classification agent that helps users to identify where to dispose of waste
 - For this application, we chose to primarily focus on the 3 most common methods of waste disposal which are trashing, recycling, and composting.
 - With this app, we hope to revolutionize recycling efficiency, resource conservation, and improve the environment overall
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Vision Statement

- **FOR** households and individuals **WHO** struggle with proper waste disposal and want to reduce their environmental impact
- **THE** ReSort system is a web application **THAT** provides immediate guidance on how to dispose of items, tracks users' disposal history, and provides personalized tips on how to lead a more sustainable lifestyle
- **UNLIKE** disposal websites or guides that provide generic advice, the focus of ReSort is to reduce the improper disposal of waste by providing instructions specific to the user's item
- **OUR** product enables users to quickly identify the correct method of disposal and allow users to discover tips to minimize landfill contribution
- Municipalities, businesses, and schools are the target customers for the ReSort system as it will significantly help reduce contamination in disposal streams and educate communities on waste literacy

Goal

- With ReSort, our goal is to provide **immediate** and **accurate** disposal instructions based on what the user inputs.
 - When the user sorts an item with text or an image, they can **learn** better waste disposal methods from the AI's explanation.
 - The history enables the user to **quickly** look back on previous items they already sorted to remember the proper waste disposal method.
- Overall, our application's features promote **sustainable habits** and **actionable insights** to improve the user's **environmental impact**.

Main Features

- Image-based sorting
- Text-based sorting
- History display
- Personalized tips



Main Features


Image-Based Sorting

Sort Waste into Trash, Recycle, or Compost


Text

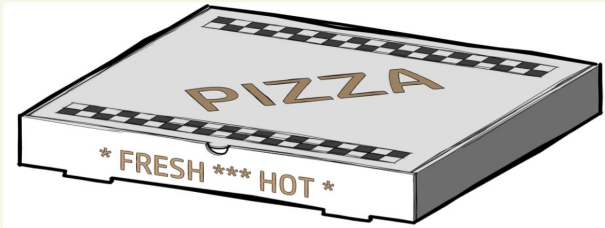
Image

Upload an image of an item

 Drag and drop file here
Limit 200MB per file • JPG, PNG, JPEG

Browse files

 1597380333774.jpeg 141.7KB ×



Uploaded Image

Analyze Image

Trash: [Pizza Box] Pizza boxes are often contaminated with grease and food residue, which can interfere with the recycling process. Therefore, they usually need to go into the trash.

Save Image

Text-Based Sorting



Your Smart Waste Sorting Assistant

Sort Waste into Trash, Recycle, or Compost

Text

Image

Describe the waste you want to dispose:

old pizza box

Sort

Trash: Due to grease and food contamination, it cannot be recycled.

Save

Main Features

History Display



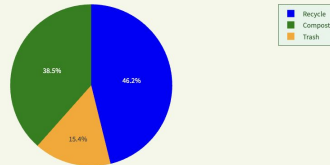
Your Smart Waste Sorting Assistant

View how much waste you have sorted

Statistics History

Statistics

Trash Sorted



Total trashed items:

2

Total recycled items:

6

Total composted items:

5



Your Smart Waste Sorting Assistant

View how much waste you have sorted

Statistics History

History

Item	Disposal Method	Date Sorted
paper bin	Recycle	05-09-2025 22:20
plastic bag	Recycle	05-09-2025 22:20
Plastic Bag	Recycle	05-09-2025 21:14
diet coke	Recycle	05-09-2025 21:10
Pizza Box	Trash	04-30-2025 22:11
apple core	Compost	04-30-2025 22:10
Pizza Box	Compost	04-29-2025 20:15
apple core	Compost	04-29-2025 17:26
Candied Ginger	Compost	04-29-2025 16:00
Pizza Box	Trash	04-29-2025 15:55

Personalized Tips



Your Smart Waste Sorting Assistant

Get tips to help manage your waste disposal now

General Tips Generate Tips

Get personalized tips

Your Personalized Tips

Okay, based on your waste sorting history, here are 3 targeted tips to help you improve your sorting habits and minimize waste sent to the landfill:

1. Pizza Boxes: Always Check for Contamination! (Focus on Accuracy)

- Problem:** You're inconsistent with pizza boxes, sometimes putting them in recycle, sometimes in trash, and sometimes in compost. This is a common problem!
- Explanation:** Pizza boxes can be recycled, but only if they are clean and free from grease and food residue. If they're heavily soiled with grease, cheese, or other food, they become contaminated and should be composted or thrown in the trash.
- Solution:** Before tossing your pizza box, visually inspect it.
 - Mostly Clean:** Tear off the clean portions of the box to recycle, then compost or trash the greasy part.
 - Heavily Greased/Food Soiled:** Place the entire pizza box into the compost bin (if your compost accepts it, check with your municipality), otherwise it should go in the trash.

2. Plastic Bags: Question the Recycle (Focus on Correct Location)

- Problem:** You're consistently putting plastic bags in your recycling bin, but you need to find the right place for them.
- Explanation:** Most municipal recycling programs do not accept plastic bags in curbside bins. Plastic bags can tangle up recycling machinery, causing damage and delays.

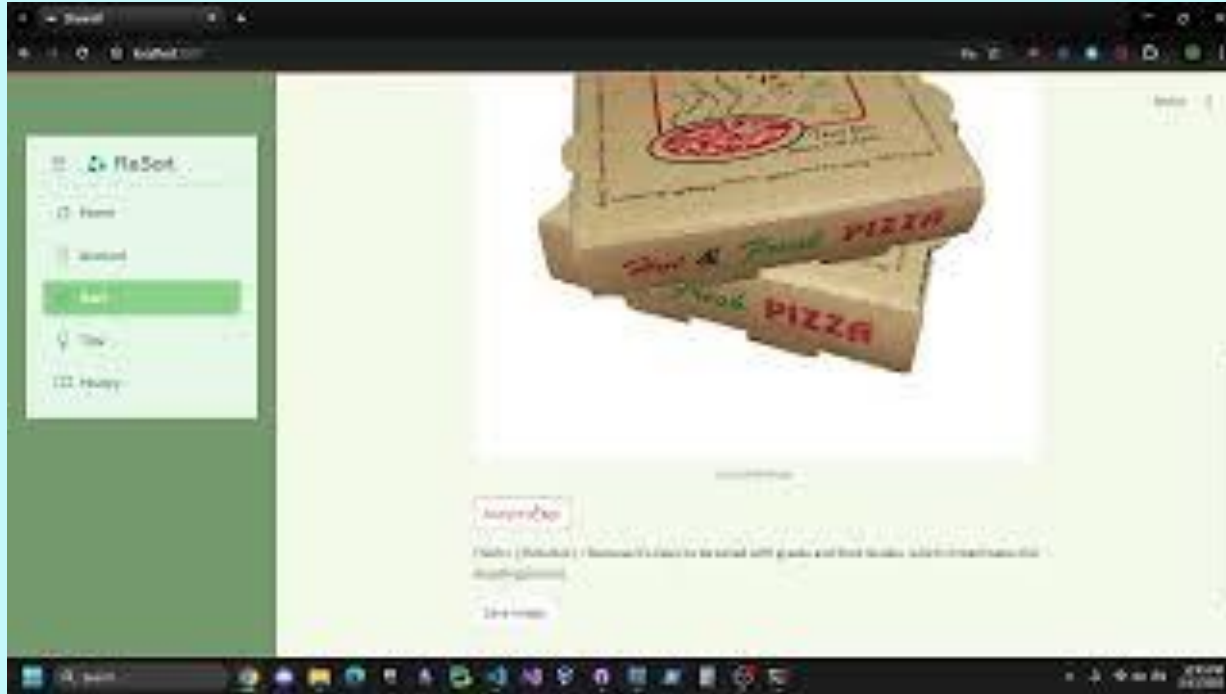


03

Demo



ReSort Application Video Demo (Backup)



04

Q&A



**THANK
YOU!**

