UGAHacks Project Log

Project Information

Project Title: Recycle.it

Team Members: Anthony Padilla, Adam Shavkin, Chaston Cao, Diego Parra

Tier Level: Intermediate

Project Description: allow users to enter scan barcodes,, we'll analyze the recyclable information (i.e., material classification, recycling instructions, etc.), use user location to find county recycling rules (e.g., no plastic bags, no styrofoam) along with other recycling resources (ex. Autozone will recycle car batteries/motor oil). Based on this, provide the user with recycling options.

Friday

Welcome to UGAHacks __ ! We're excited that you're participating and revving up for an amazing weekend! Today will be short, but we advise you to settle on a project and create a plan to guide you! Already have something in mind? Now's a great time to get started!

Goals:

- ☑ ~~Come up with team name~~
- ☑ ~~Brainstorm ideas~~
- ☑ ~~Choose best idea~~
- ☑ ~~Begin coding process~~

Progress:

We got together and started brainstorming for team names. After we decided on our team name, we brainstormed ideas for the project. We reviewed the different sponsors and chose to do the Cox, "build a web application that leverages AI to promote sustainability. Judging is based on AI usage, workflow with AI, community impact, and clean and efficient code.". After reviewing our ideas, we decided on making a website that tells you whether or not an item is recyclable and where you could recycle it based on your location.

Challenges:
1. Challenge 1: Trying to find a way to scan barcodes
   - Solution (if found): We found an api that scans barcodes
2. Challenge 2: API provided only barcode and no information
   - Solution (if found): We found another API that can tell you information based on barcodes
3. Challenge 3: Whether or not to include a database for accounts.
   - Solution (if found): We decided to start with no database, but we may develop it at the end.

Learning:
How to implement an API for a barcode.

AI Usage (if any):

Tool used: Github Copilot
Purpose: Structure helping and workflow scheduling
How it contributed to learning: It showed how us someone would structure their code without actually giving any code. Gave us ideas to expand on as well.

Saturday

Saturday is the longest day of the Hackathon! The bulk of your project will get done within today, so set your goals wisely!

Goals:

- ☑ ~~Complete frontend~~
- ☑ ~~Compete backend~~
- ☑ ~~Serp API~~
- ☑ ~~Barcode Scanner API~~

- ☑ ~~Google maps API~~
- ☑ ~~Locally hosted AI Implementation~~

Progress:
Saturday is the main sprint in our project. Two people were dedicated to the front-end, and 2 people on the backend. The two in the front end split up the work to push different sections of the website. The backends split their jobs on implementing APIs and the database. Working diligently, we were able to finish it on time.

Challenges:
1. Challenge 1: Trying to figure out how to get the location of recycling centers and presenting that to users.
   - Solution (if found): We utilized the Google API to implement the different locations.
2. Challenge 2: Implementing AI to assist users with any questions.
   - Solution (if found): Running a locally hosted AI and leveraging APIs to make requests for free.

Learning:
We learned how to host an AI and use it within our program to assist people. We learned how hard it is to find free or even cheap API's that worked with our project.

AI Usage (if any):

Tool used: Github Copilot
Purpose: Structure and coding advice on how to implement different APIs and AI's
How it contributed to learning: We were able to see and learn how to step by step implement an API or AI. It also helped how to choose the correct API.

Sunday

Submissions are due at 8AM today!! Fit in your final touches for the project and make sure to check the submission checklist below to ensure you're ready for judging!

Goals:

- ☑ ~~Review code~~
- ☑ ~~Make sure we met all the requirements~~
- ☑ ~~Submit code~~

Progress:
We checked over our project and made sure it was ready. After checking 5 times, we decided it was ready to turn in.

Challenges:
1. Challenge 1: fatigue
   - Solution (if found): We pushed through it.

Learning:
We learned how to utilize our time and work efficiently as a team.

AI Usage (if any): No AI

Tool used:
Purpose:
How it contributed to learning:

Submission Checklist

Make sure to submit on the UGAHacks __ Devpost at 8AM on Sunday!

- ☑ Project Github Repo
- ☑ Readme file (summary of project log)
- ☑ Completed Project Log as PDF
- ☑ Live Project Site (optional)