CSIS 4495 – Applied Research Project

Progress Report 1

GREENPATH – Sustainable Products Website with AI Chatbot Integration

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Work Date/Hours Log

The table below show summary for the work done till date with the respective time spent on each task.

Date	Number of Hours	Description of Work Done
2025-09-12	1	Created GitHub repo, added instructor as collaborator.
2025-09-13	3	Initial research on the topic. Selected Kaggle dataset (Saloni1712) and verified units.
2025-09-14	3	Drafted initial project proposal with architecture.
2025-09-15	3	Initialized Vite React and TypeScript; installed Tailwind v4 and PostCSS.
2025-09-16	2	Added Router and pages (Home, Categories, Analytics, Chat) which includes the navigation bar and focus styles.
2025-09-17	2	Fixed Tailwind/PostCSS error by troubleshooting then replaced the default Vite CSS with Tailwind directives.
2025-09-18	2	Built Analytics scaffold with Recharts which include setting a fixed container height.
2025-09-19	2	Updated my proposal by rewritten to follow the project guidelines with more details.
2025-09-21	1.5	Organized repo (Documents, Implementation) and added Work Log and README links.
2025-09-22	1	Set up my GitHub Desktop workflow and uploaded the Implementation/greenpath codes.
2025-09-24	2	Prepared Progress Report 1, then updated work log.

Description of Work Done

In the past weeks, I created the app's foundation using Vite, React and TypeScript which is the starter setup that makes my project fast and organized. Then I set up Tailwind CSS v4 (with PostCSS) for styling the site using utility classes. This didn't work at first because the default Vite CSS was still in index.css, so replacing it with the three Tailwind directives helped to fix the issue. I also added client-side routing, so the app has multiple pages (Home, Categories, Analytics and Chat which is the AI helper) without reloading the browser. Then I created demo Recharts chart with simple created sample data just to confirm the UI renders correctly. The Rechart also didn't render a chart initially because the 'div' had no height then I had to wrap the container with a set height and the demo chart appeared. Also, I selected the CO_2 Emissions dataset by Saloni1712 from Kaggle. I updated my project proposal by rewriting to follow the required project guidelines. Lastly, I organized my GitHub repo with clear folders which includes Documents (for proposal, reports, logs) and Implementations (for codes and dataset for analytics).

Repo Check in of Implementation Completed

The files/folders I have checked in the repo are as follows:

README.md for project description, .gitignore to help keep my repo clean of temporary files. Documents/Proposal_FAw743.docx which contains the Project proposal. Documents/Project_FAw743_Report1.docx which has the report 1 for description of work done till date. Documents/WorkLog_FAw743.md which contains a documented detail of my work logs. Then the implementation codes store in the paths indicated below: Implementation/greenpath/package.json, Implementation/greenpath/index.html; Implementation/greenpath/vite.config.ts; Implementation/greenpath/tsconfig.json; Implementation/greenpath/src/ (including main.tsx, App.tsx, pages and components); and Implementation/greenpath/public/. I will continue to update and commit my own work as the project progresses.