



GreenChallenge

Joe Powers, Ben Gardner, Ethan Nguyen, Ian Keller, Dayn Reoh



Description

- Application
 - users log activities and get a carbon emission amount
 - carbon amount/activity computes a value that is used to manipulate user carbon score
- **Carbon score:** credit-score like system
 - higher: worse; lower: better
- **Goal:** promote sustainability by helping people reduce carbon emissions
 - game-ify user's goal
 - adds competitive reward



Tools

Version Control

- Git/Github (3)

API

- Express JS (4)
- ClimatIQ (3)
- Axios (4)

UI/UX

- HTML (5)
- CSS (4)
- Javascript (4)
- EJS (3.5)
- Bootstrap (5)
- Adobe AI (4)

Environment

- Docker (4)

Server/DB

- Node.js (4)
- PostgreSQL (4)

Documentation

- Google Drive (5)



express



climatiq



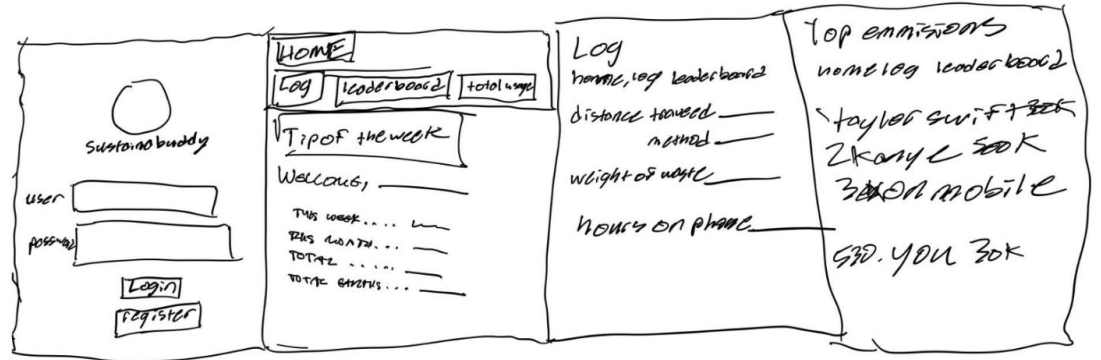
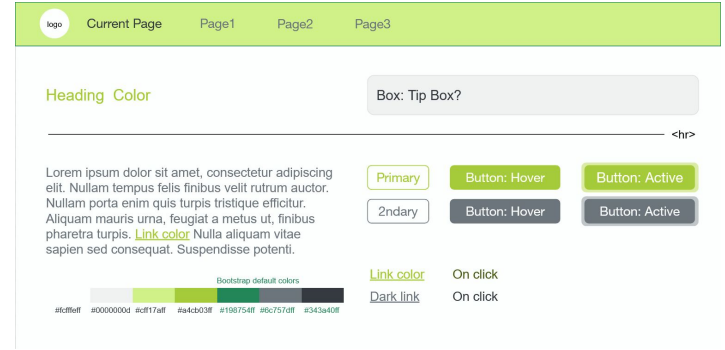
Tools (Cont)

Planning

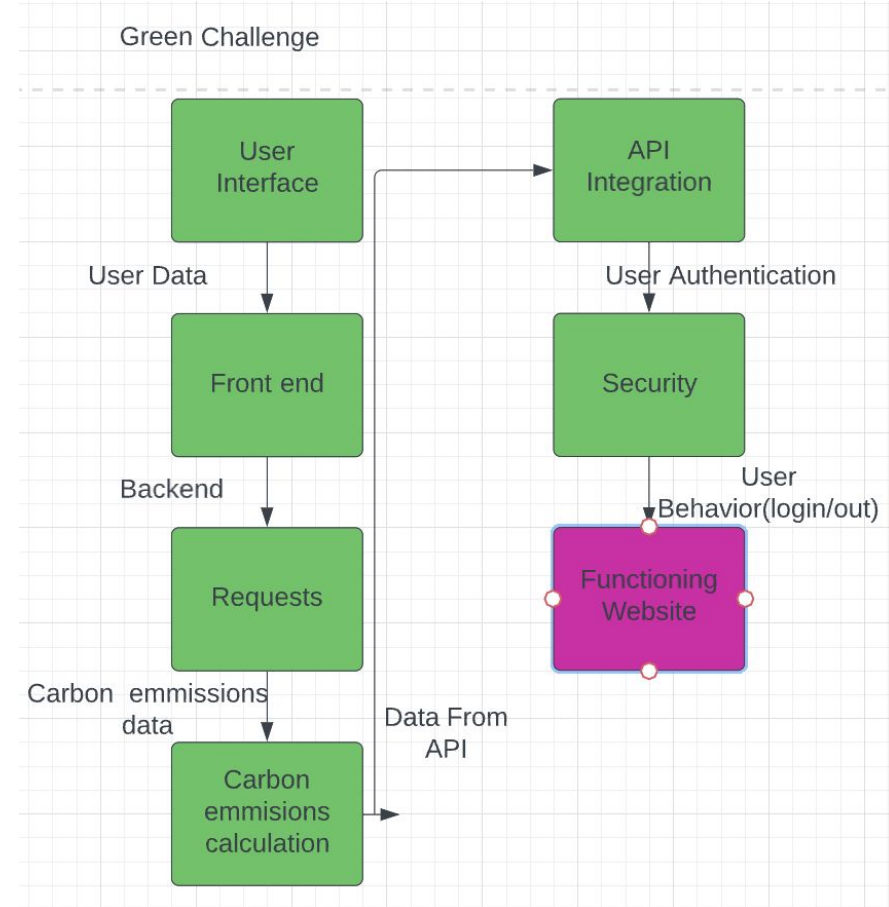
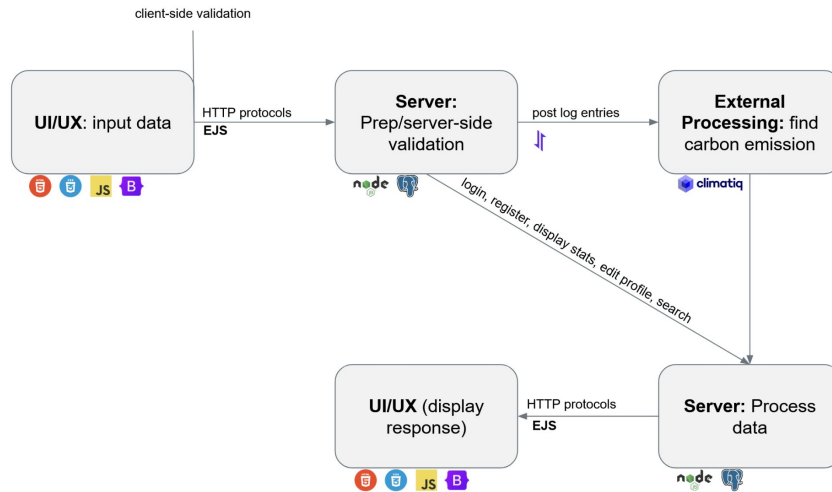
- MySQL Workbench (4)
- Google Drawings (3)
- Github Projects (5)
- LucidChart (2)

Methodologies

- Agile (1)
- Iterative (5)
- Peer code reviews (5)



Architecture Diagram





Challenges

- Task management/culling to meet deadline
 - Data graph
 - User profile picture upload
- Carbon score algorithm balance
 - Balance real data with reasonable scores
 - Create meaningful scores
- Convoluted API calls
 - effectively utilizing API with limited information reasonably expected of a user



Functional Demo