

Community Connect

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PROBLEM

The previous version of the Community Connect website was enlarged, mostly unresponsive, and incomplete regarding main components like the search and carbon calculator, as well as their respective pages. The goal this semester was to implement the Carbon API used to calculate carbon emissions and make the website look like the original design with 4 pages.

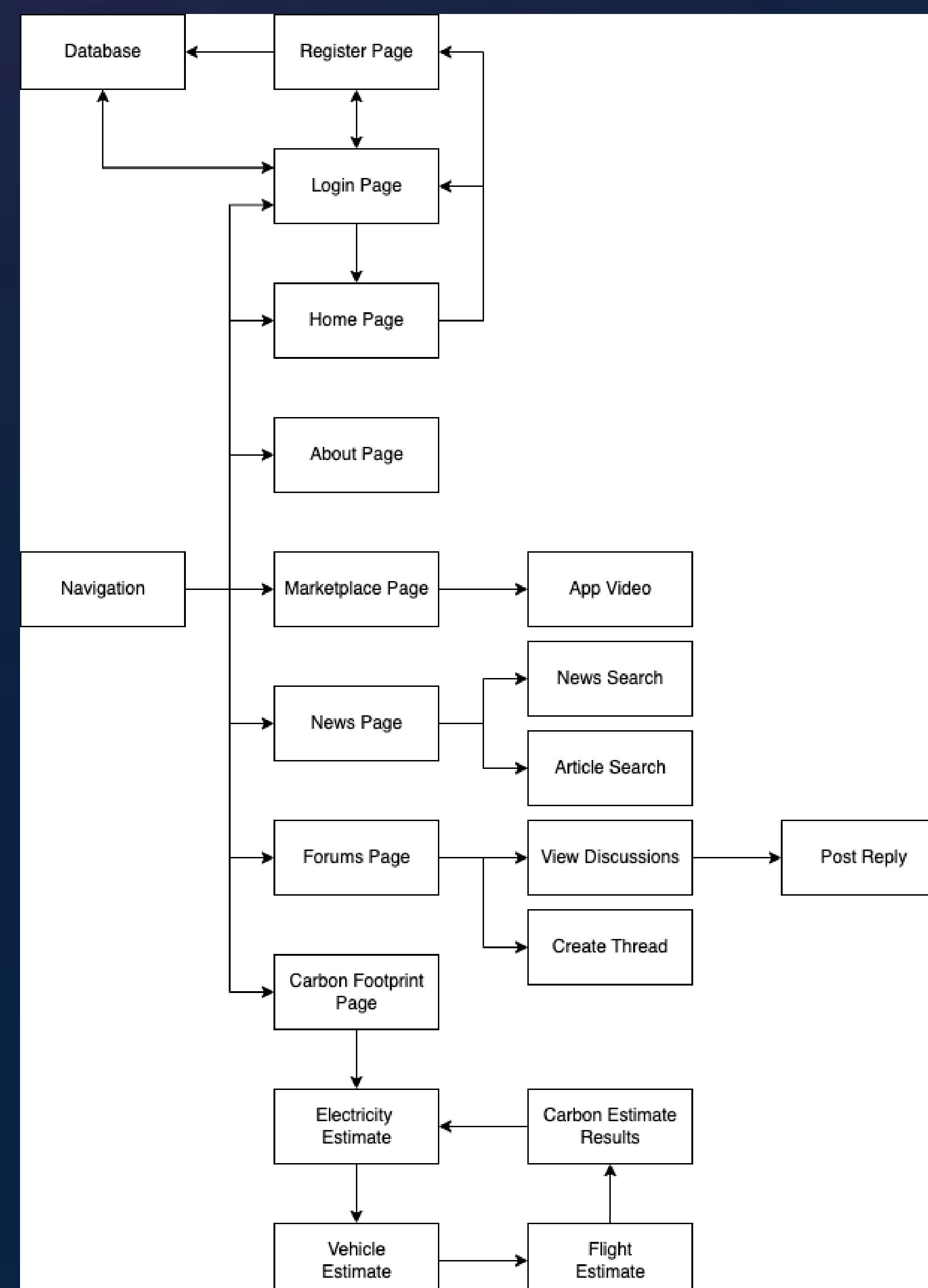
CURRENT SYSTEM

The previous system only had a frontend component to it that was not functional. There was no API or database being used to perform any calculations or save user input. Also, the questions did not align with an API and were simply random questions drafted in the process of creating the carbon calculator. The design and questions were completely recreated to fit the implementation of the Carbon Interface API.

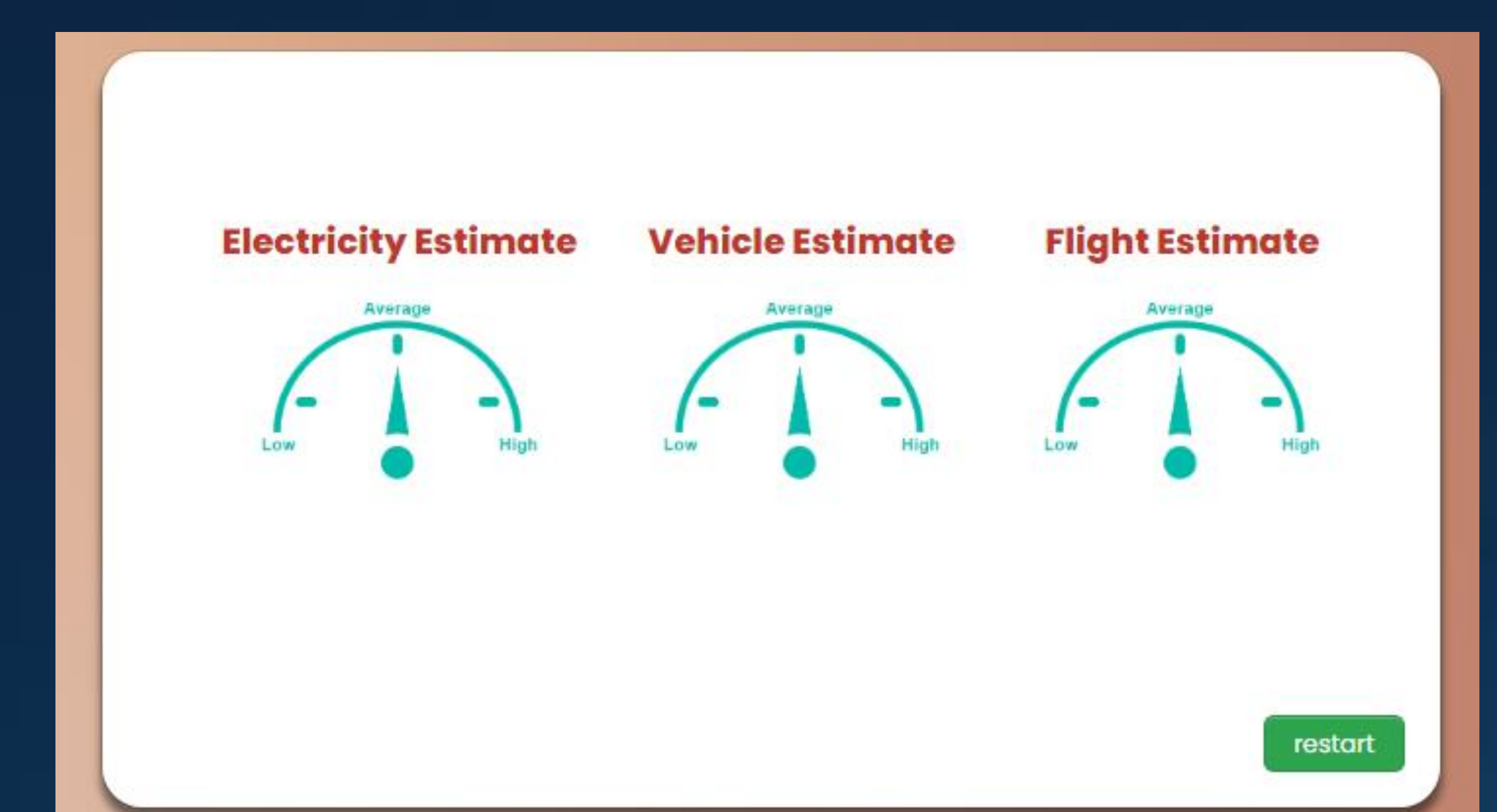
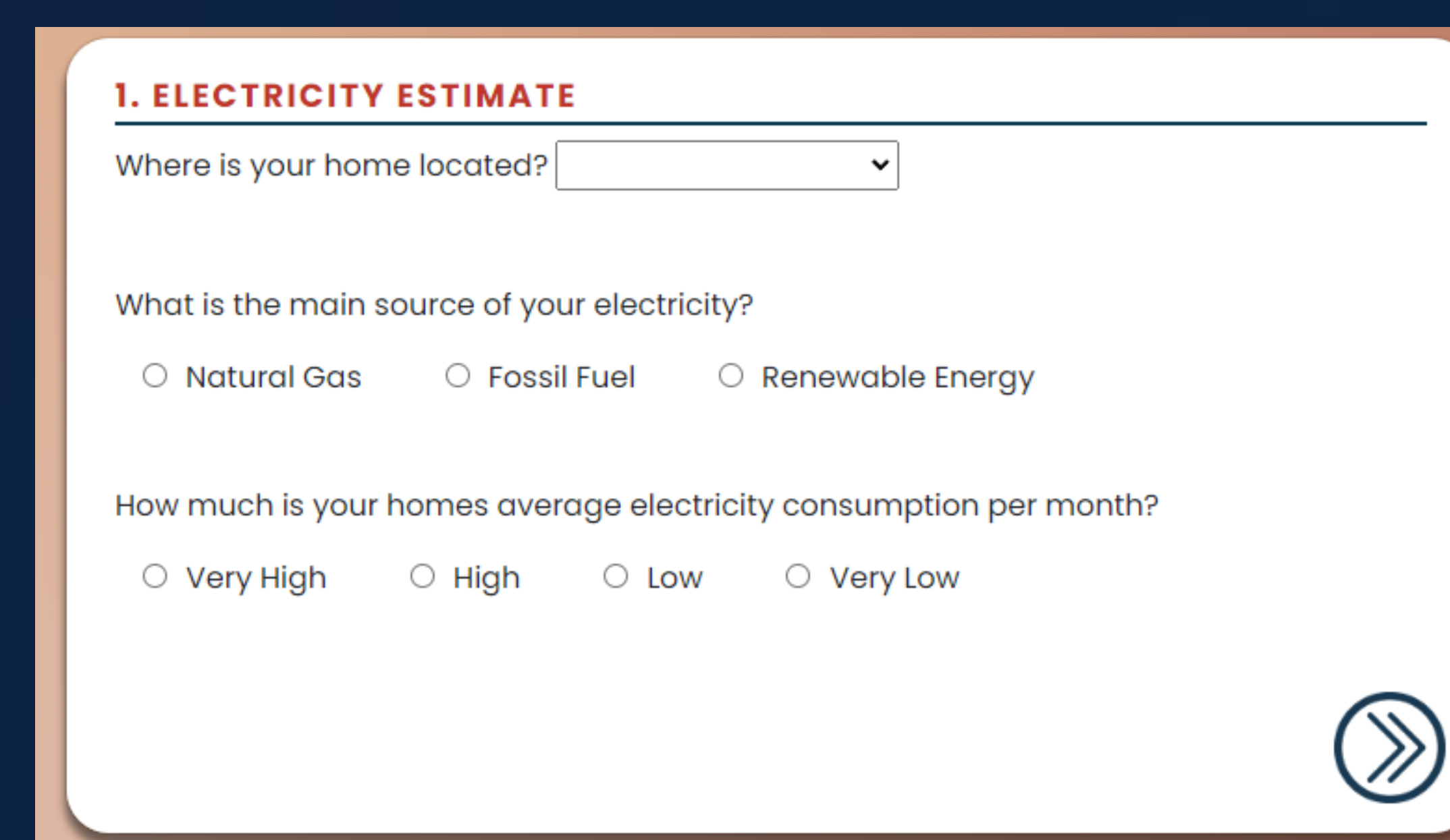
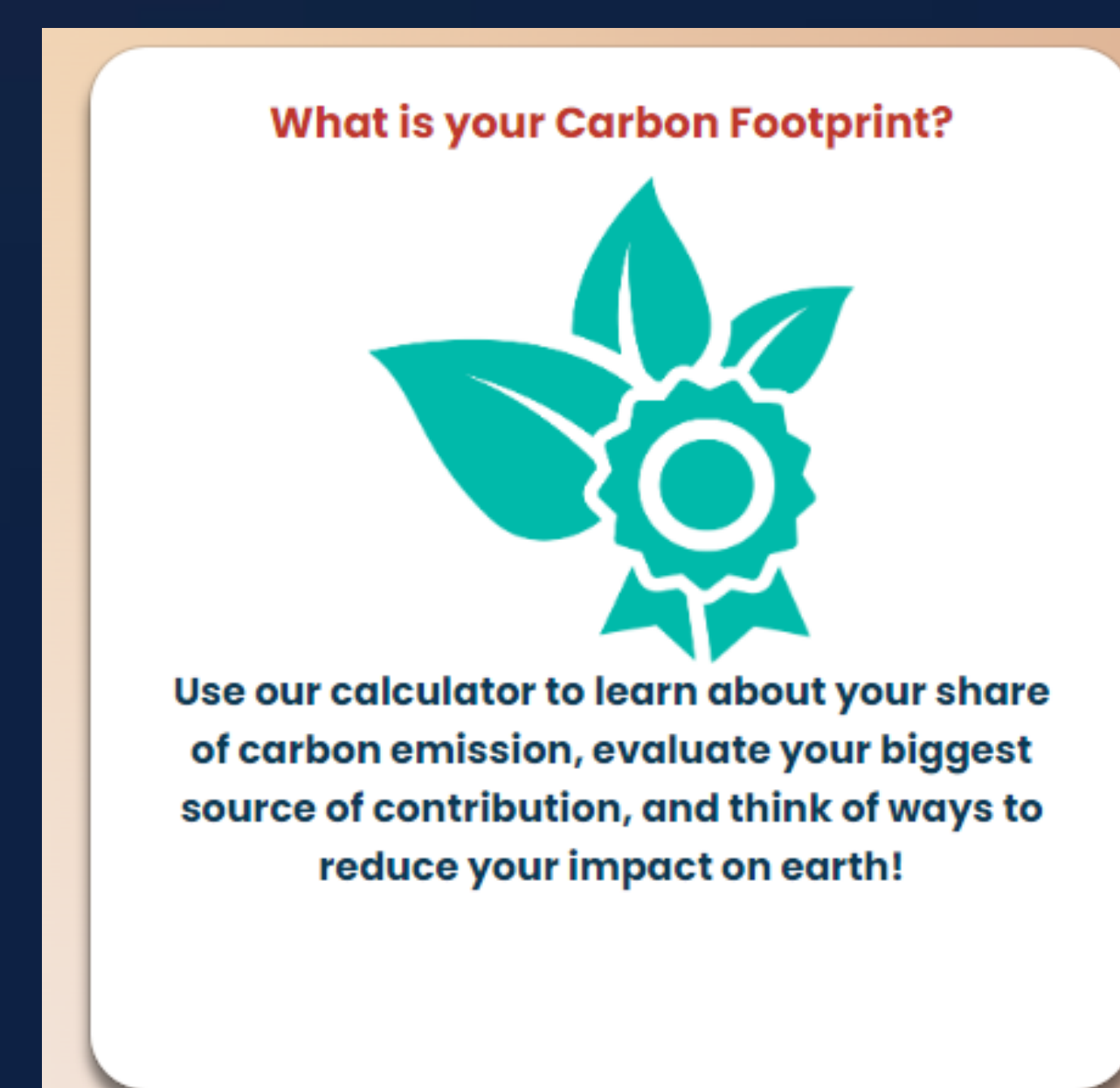
REQUIREMENTS

The requirements for this Carbon Calculator are simple, everything exists in a browser so we need a React interface paired with the Carbon Interface API for it to work.

SYSTEM DESIGN



USER INTERFACE DESIGN



SUMMARY

I recreated the visual component of the Carbon Calculator through React and gathered the data from the user input. This data was used to perform Axios requests to the Carbon Interface API, do some JavaScript calculations to compute the results, and display them back to the user after completing the Carbon Calculator form

IMPLEMENTATION



ACKNOWLEDGEMENT

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