

NRGR Final Design Presentation (Team 3)



PG&E Energy Reducer

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Members:

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Description of Systems and Users

System

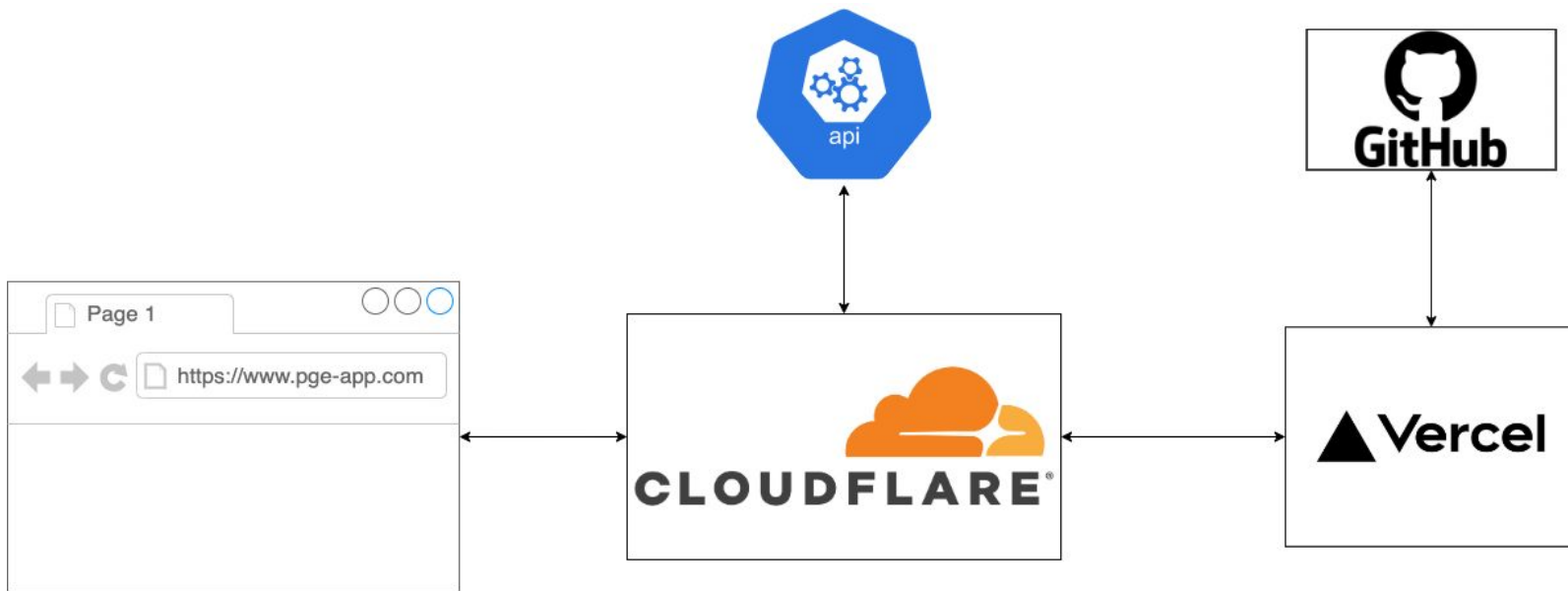
The purpose of our system is provide a way for users to observe their electrical and gas usage, see the costs of said usage, and provide information about the environmental impact of their usage.

Users

The users of this application are residential homeowners and business owners who want to gain insight into their energy consumption through Pacific Gas & Electric (PG&E) as well as optimize their energy usage.



Architectural Design





Demonstration

<https://pge-app.sachinf.com/>



Identification of potential usability concerns

- Day, Month, Year selectors and NavBar not scrolling with page.
- Possible issues with different devices and browsers.
- Page has not been scaled for mobile use
- Possible trouble with reading graph axis
- Text could be too small for some users



Identification of what components of the UI have finished and plan to finish in the next week

Finished

- Sidebar and Top bar
- Graph and total cards
- Environmental impact card
- Time Range Selector
- Tooltips
- Sliders
- Live production deployment
- Site protection behind Cloudflare

Planned

- More data analysis features
 - Spike recognition
- Improve Message for one day gas usage
- Secure, client-side API integration
- Improved styles for cards containing electric/gas totals
- Page scaling to eliminate scrolling
- Extrapolating future usage based on data
 - extending slope
- More environmental impact cards, more energy tip cards
- Usage comparison to average household of similar size

Questions

