

Campus Parking Finder

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The problem

The CU parking website is outdated, difficult to navigate, and confusing. The map itself does not provide data on how full parking lots are, nor does it support pay-to-park areas. Additionally, there are often times when users may need to park for just a couple of minutes, but with no information on where the parking enforcement are, they risk getting a ticket.

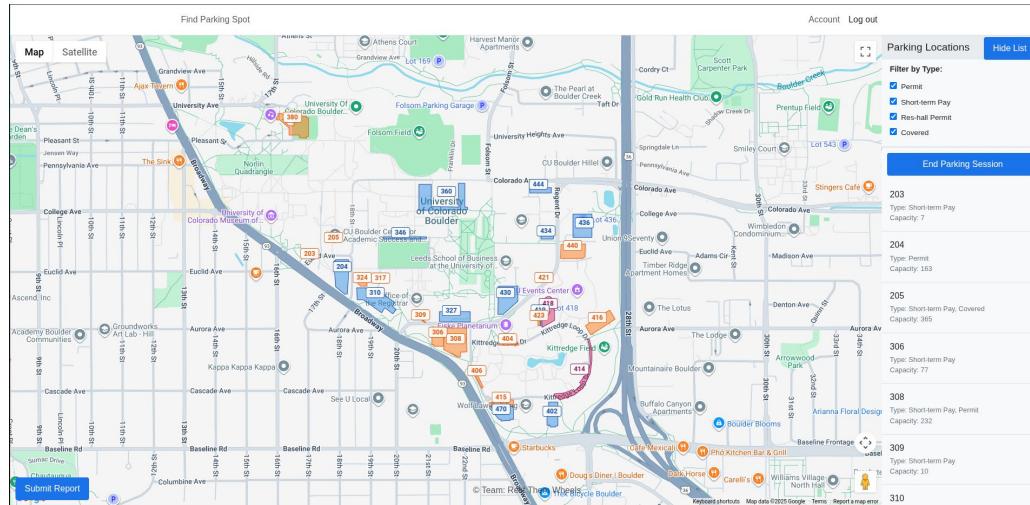
Who's it for?

- CU students
- CU staff and faculty
- CU visitors
- YOU!



Our solution

A real-time, user-reported map displaying available parking spots on campus. Users can navigate an interactive campus map to view parking availability, report parking spots, and log parking service sightings. Authentication is required to post reports and contribute to the community.



Tools used



Github

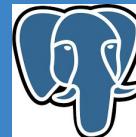


Repository/Version control

Github Project Board



Project management and tracking tool



Postgre
SQL



Database management system



VSCode



Code editor



Excalidraw



Software used to create wireframes and diagrams



JS, CSS
HBS, HTML



Languages/templating we used for our code



Render



PaaS used to deploy the app



Docker



Containers for testing and development

Tools used



Google
Maps API



Map API used to
display parking lots



Mocha
and Chai



How we tested our
project



Node.js



Language we used
for server-side
programming



Express



Framework we
used for Node.js



Bootstrap



CSS framework

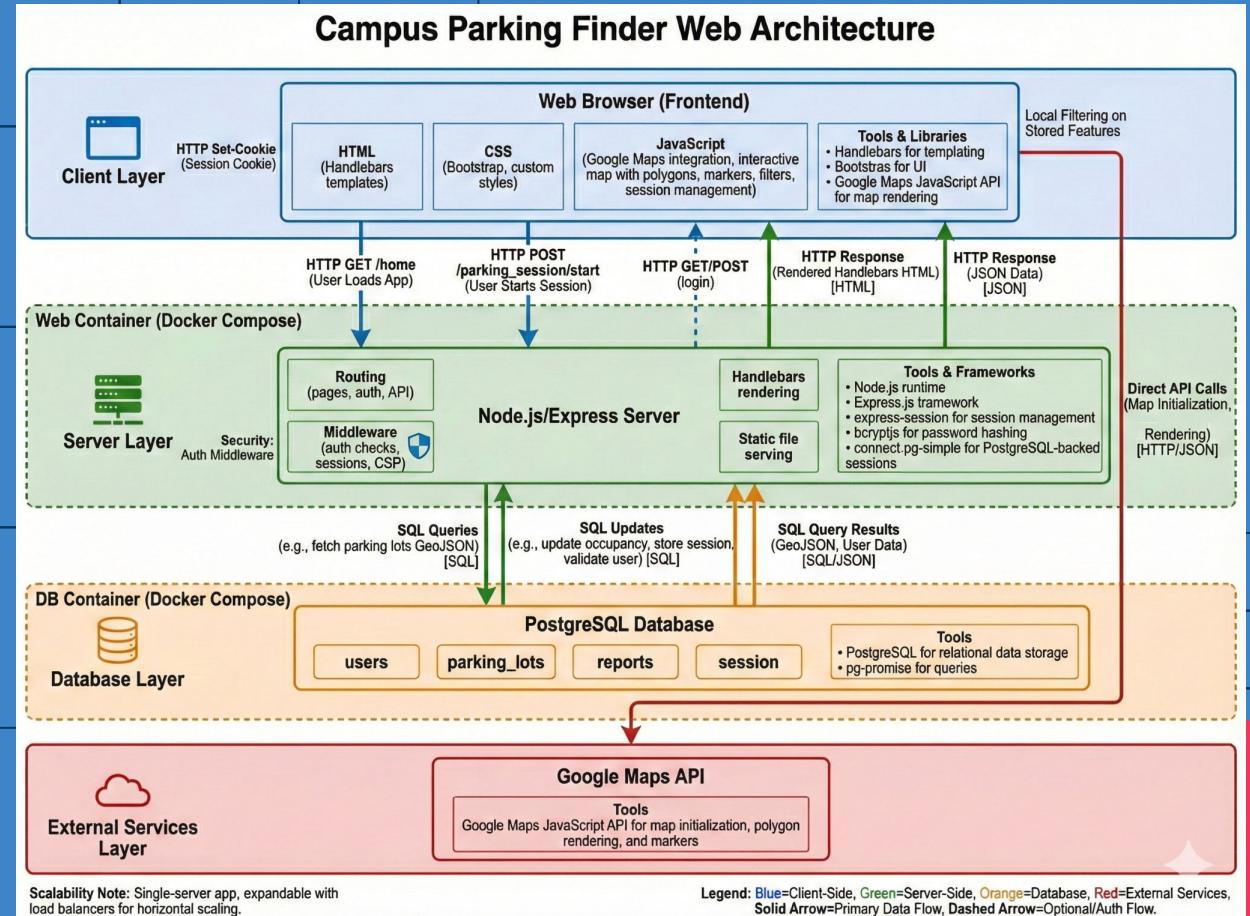


Agile



Our methodology
for the project

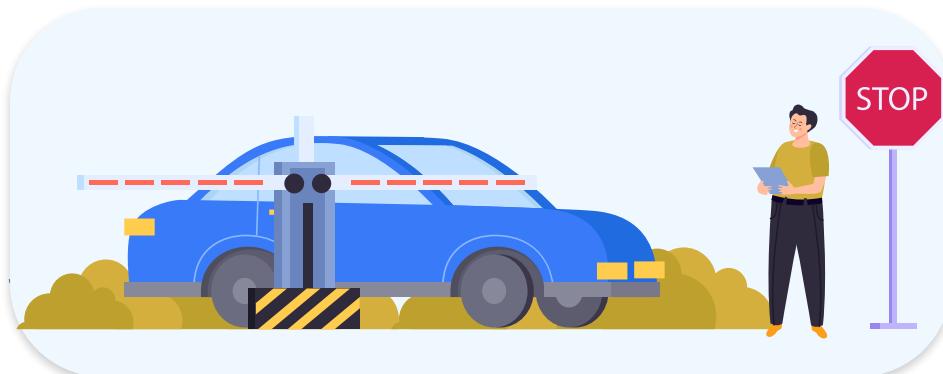
Architecture Diagram



Note: this image was created using Gemini Nano Banana Pro. All information within the diagram has been verified.

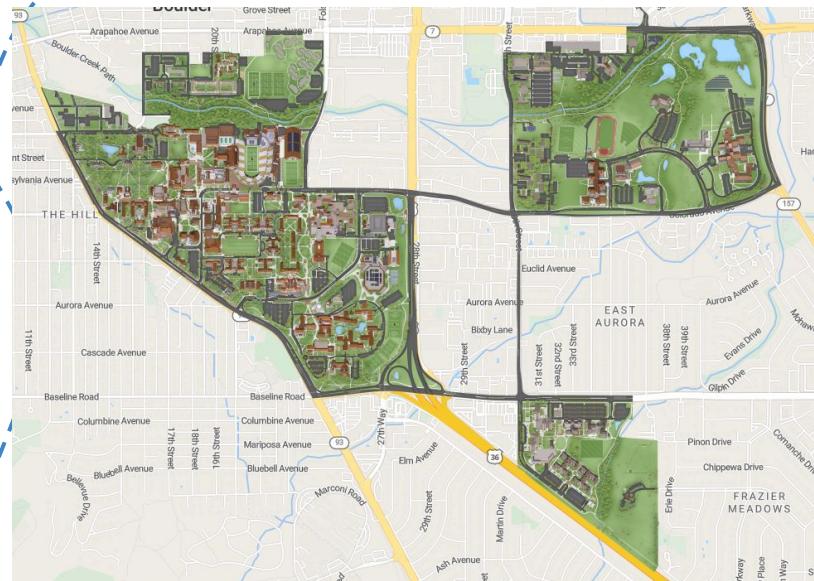
Road blocks

1. Teammates getting sick
2. Database issues with Render
3. Git merge/version control issues
4. Time constraint
5. API access & usage
6. Creating an intuitive layout
7. Communication/leadership



Future Scope/Enhancements

- Allow users to pay for parking through the app
- Allow parking service sightings to be placed anywhere on the map
- A way for users to see recent reports like a timeline on the side of the page
- OAuth
- A more detailed and visually distinct campus map, much like the CU campus map website (right)
- Require email verification to create an account



x

demo

Thanks!



Questions?



Resources

- [Github logo](#)
- [Postgres logo](#)
- [VScode logo](#)
- [Excalidraw logo](#)
- [HTML5 logo](#)
- [Hbs logo](#)
- [CSS logo](#)
- [Render logo](#)
- [Docker logo](#)
- [Google Maps logo](#)
- [Mocha/chai logos](#)
- [Node js logo](#)
- [Bootstrap logo](#)
- [Agile logo](#)
- [Express logo](#)
- [CU Campus Map](#)
- [Theme and car vectors](#)