METCS673 Group 6 - Project Status Report 5

TerrierMap

Team Members:

- Ryan Christopher
- Misael Gared
- Jasmine Hughes
- Siddhraj Parmar

TerrierMap GitHub Repo:

https://github.com/ryan-christopher/CS673-TerrierMap/tree/dev-landingpage

Live Link:

https://terriermap-git-dev-landingpage-ryanchristophers-projects.vercel.app/

Meeting Decisions:

- Next priority needs to be on showing route between the user's location and destination
- Route will be displayed as a line as well as showing step by step instructions
- The dev github branch should become the main after this next week's worth of updates
- The map should ideally update to reflect the user's location over time

Completed Tasks:

- Implemented a destination pin to the Leaflet map
- State a building code doesn't exist
- Updated interface to show information over the map

Assigned Tasks:

- Autocomplete building codes | Siddhraj Parmar, Ryan Christopher
- Go button to give directions from current location to inputted building | Jasmine Hughes
- Update layout for desktop and mobile screen sizes | Ryan Christopher
- Change Leaflet routing directions from driving to walking | Misael Gared

Individual Contributions:

Ryan Christopher: This week I updated the user interface of the application and made the map more user friendly. I first resized the map to take up the entire screen, then placed the elements the user will interact with on top of the map as a banner. This will allow a greater size for the map to display information and avoid unused space. I then added React Icons to the project and replaced the “Find Classroom” and “Get User Location” buttons with icon components to free up space.

Misael Gared: This week, I worked on finding ways to enhance the map’s routing functionality by changing the Leaflet routing directions from driving to walking mode. This adjustment allows users to view walking routes to classrooms, making the application more suitable for campus navigation. This change improves the accuracy and relevance of directions, aligning with the map’s primary purpose of guiding users across the university campus on foot. But this proved to be really complicated and explored other options like possibly giving more surrounding information displayed to the user's current location and the route way.

Jasmine Hughes: I worked on adding the Leaflet Routing Machine to our application. I added a file that should take the data from the ClassroomSearch file and LocationBox file and input that data into the routing function. This way that process doesn’t have to be repeated unnecessarily. I also researched implementing what was learned in the UI class for the “Route Me” button. Ideally, the button will appear once the location has been gotten and the building has been searched.

Siddhraj Parmar: I created the ClassroomSearch component to help users find classrooms by entering building codes and room numbers, with data dynamically pulled from Firebase Firestore. This component efficiently retrieves latitude and longitude coordinates for valid building codes, using input validation to ensure accurate user entries and displaying error messages if a code is invalid or data is missing. By utilizing Firestore's GeoPoint data handling, I ensured that precise location data could be accessed and visualized on a map, improving user experience by providing a simple interface for location-based search. In addition, I added a CircleMarker to visually represent the user's location and optimized imports and default settings to improve functionality.(link to commit)