

METCS673 Group 6 - Project Status Report 3

TerrierMap

Team Members:

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

TerrierMap GitHub Repo: <https://github.com/ryan-christopher/CS673-TerrierMap>

Meeting Decisions:

- We plan to start writing some basic tests to ensure the routing machine is properly displaying directions.
- We plan to update the Frontend to receive the user's location to render and display the user's longitude and latitude.
- We plan to begin implementing the process of receiving a building code and returning an address from our database.

Completed Tasks:

- Implemented functionality to update the map based on the user's location by pressing a button
- Converted database into a more readable/useable Firebase database

Assigned Tasks:

- Writing tests for the routing machine in Python | Jasmine Hughes
- Display user's location in longitude and latitude | Siddhraj Parmar
- Return address from database after building code is given | Misael Gared
- Acting as support for testing and backend work this week | Ryan Christopher

Individual Contributions:

Ryan Christopher: This week I assisted in starting the testing scripts we will use to validate that our routes are being properly generated using the [requests](#) and [json](#) python libraries. We initially used Postman to see how the leaflet routing machine returns information via json files and will continue to work on this. I also began to work on making calls to our Firebase database in order to get a street address from a given three letter building code.

Misael Gared: This week, I focused on exploring the Leaflet library to retrieve and render the longitude and latitude coordinates needed for pin placement on the map. I worked on ensuring that the map accurately displays these pins based on the provided data, and I looked into ways to optimize this rendering process for dynamic map interactions. Additionally, I researched methods to improve the map's responsiveness and ensure that the pins are displayed correctly across various user devices.

Jasmine Hughes: This week I didn't contribute anything meaningful nor did my assigned tasks. I converted our existing database into a Firebase database, so we can utilize the collections feature and have data with meaningful parameters. I could not for the life of me figure out how to set up a test server to convert routing directions into walking directions nor test whether the API is working properly on my machine despite Ryan's assistance. I was also able to find a document that might provide assistance in troubleshooting when [calling data](#) from the Firebase database.

Siddhraj Parmar: This week I implemented the feature that allows users to retrieve their current location directly on the map without needing to leave the application. I integrated the geolocation API to fetch users' coordinates and dynamically updated the map using the React Leaflet library to display a marker indicating their position. This feature was built using Next.js for the front-end framework and was optimized for responsive interaction across different devices. I also ensured that the map automatically adjusts its center based on the user's location and displays helpful markers for navigation purposes.