

EE/CprE/SE 492 Biweekly Status Report 4

10/12/19 – 10/25/19

Group number: sddec19-22

Project name: Vehicle-Operator Behavior Monitoring System

Client & Advisor: Andrew Guillemette & Daji Qiao

Team Members/Roles:

Andrew Damon

Freya Gaynor

Skand Gupta

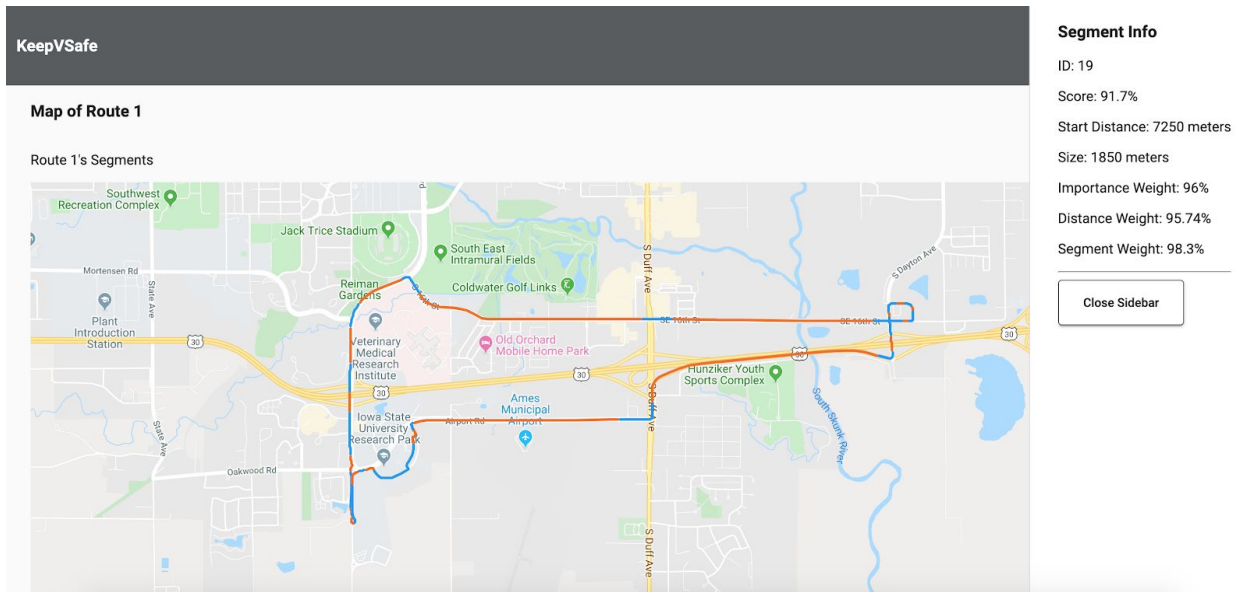
Sydney Ehlinger

Biweekly Summary

These past two weeks we have been working on getting the segments displayed and color coordinated on the map. From there, when a segment is clicked on, the data for that segment is displayed in the sidebar. When a segment is then double clicked, it then displays the lap record in the sidebar, which is the data from the closest point in the segment that you clicked on.

Freya has also been working on rewriting the directions node library to support our requirements. This is because the library that we were originally using did not support the features that would allow use to click on objects and display their data.

Screenshots



The screenshot displays a web application interface. At the top left, there is a dark grey header with the text "KeepVSafe". Below the header, the main content area is titled "Map of Route 1" and shows a map with several colored segments (blue, orange, yellow) overlaid on a street map. The map includes various landmarks such as "Southwest Recreation Complex", "Jack Trice Stadium", "South East Intramural Fields", "Coldwater Golf Links", "Reiman Gardens", "Veterinary Medical Research Institute", "Iowa State University Research Park", "Ames Municipal Airport", "Old Orchard Mobile Home Park", and "Hunziker Youth Sports Complex".

On the right side of the map, there is a sidebar titled "Segment Info" which contains the following data:

- ID: 19
- Score: 91.7%
- Start Distance: 7250 meters
- Size: 1850 meters
- Importance Weight: 96%
- Distance Weight: 95.74%
- Segment Weight: 98.3%

At the bottom of the sidebar, there is a button labeled "Close Sidebar".

Figure 1.1 - Displaying the segment data in the sidebar when a segment is clicked on once

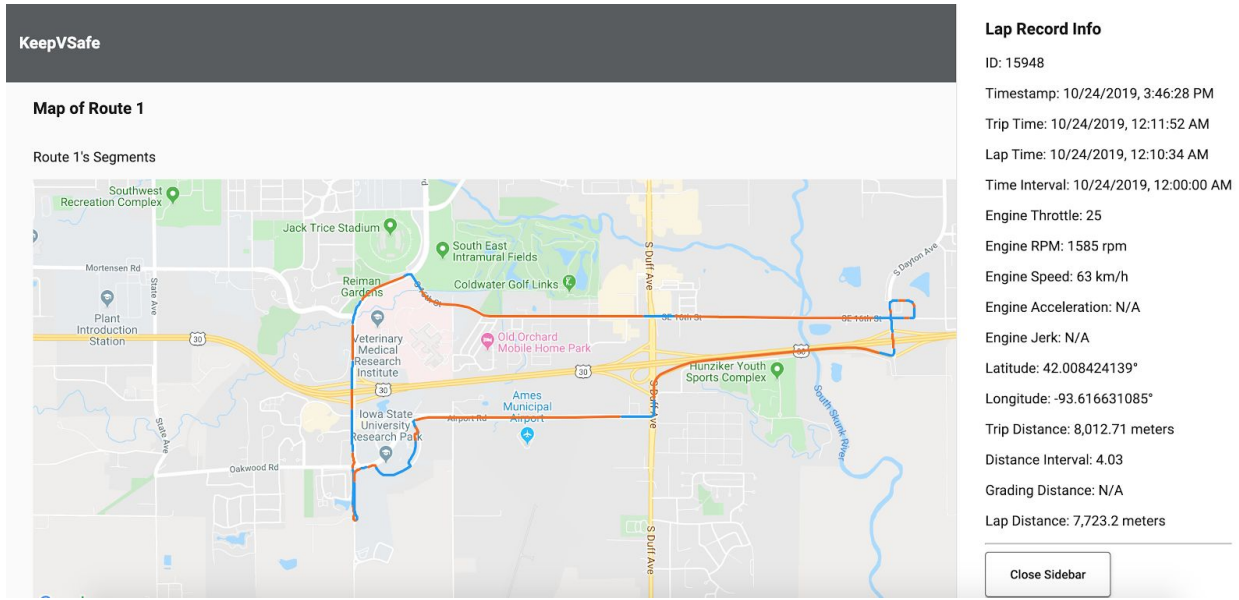


Figure 1.2 - Displaying the lap record when the segment is double clicked on.

Past 2 Weeks Accomplishments

- Andrew Damon: Having the data in the sidebar properly formatted. Fixing some errors that kept appearing in the console.
- Freya Gaynor: Broke up the data into segments and plotted actual points. Made the data available on click. Redesigning the sidebar into a drawer. Reviewing code.
- Skand Gupta: Added some static charts to the project.
- Sydney Ehlinger: Learning how components talk to one another in Angular. Displaying segment and lap record data in the sidebar when a segment is clicked on one or double clicked

Pending Issues

- Andrew Damon: None
- Freya Gaynor: Need to finish redesigning the drawer - currently only the segment data displays, not the lap record data. This will need to be debounced so that single and double clicks are distinguishable.
- Skand Gupta: Finish the charts.
- Sydney Ehlinger: None

Individual Contributions

Name	Individual Contributions	Hours This 2 Weeks	Hours Cumulative
Andrew Damon	Fixing errors in the console log. Finding the proper units that each item is measured in. Formatting the data in the sidebar.	6	20

Freya Gaynor	Broke up the data into segments and plotted actual points. Made the data available on click. Redesigning the sidebar into a drawer. Reviewing code.	8	30
Skand Gupta		12	20
Sydney Ehlinger	Displaying segment and lap record data in the sidebar when a segment is clicked on one or double clicked	8	20

Plans for the Upcoming Week

- Andrew Damon: Helping with the transition from a side-nav to a drawer in Angular as well as displaying the overall Route's statistics.
- Freya Gaynor: Debounce clicking and organize lap records into a drawer and begin graphing this data if necessary.
- Skand Gupta: Finish the charts.
- Sydney Ehlinger: Working more on the data being displayed in the sidebar and reworking how the data is being passed between the components.