

## EE/CprE/SE 492 Biweekly Status Report 7

11/23/19 – 12/6/19

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 heavily working on refactoring the UI of the application. We integrated Google Firestore to retrieve all data we currently have (Figure 1.1). Reworked styles to flow properly between pages as components, created a new navigation menu to move between pages. On the driver detail's page we integrated map data with driver details page to retrieve recent information about segments and laps (Figure 1.5), and added graphs for speed vs time with zoom and pan capability (Figure 1.6).

In addition to all this, we spent time working on our final poster, presentation, and report.

### Screenshots

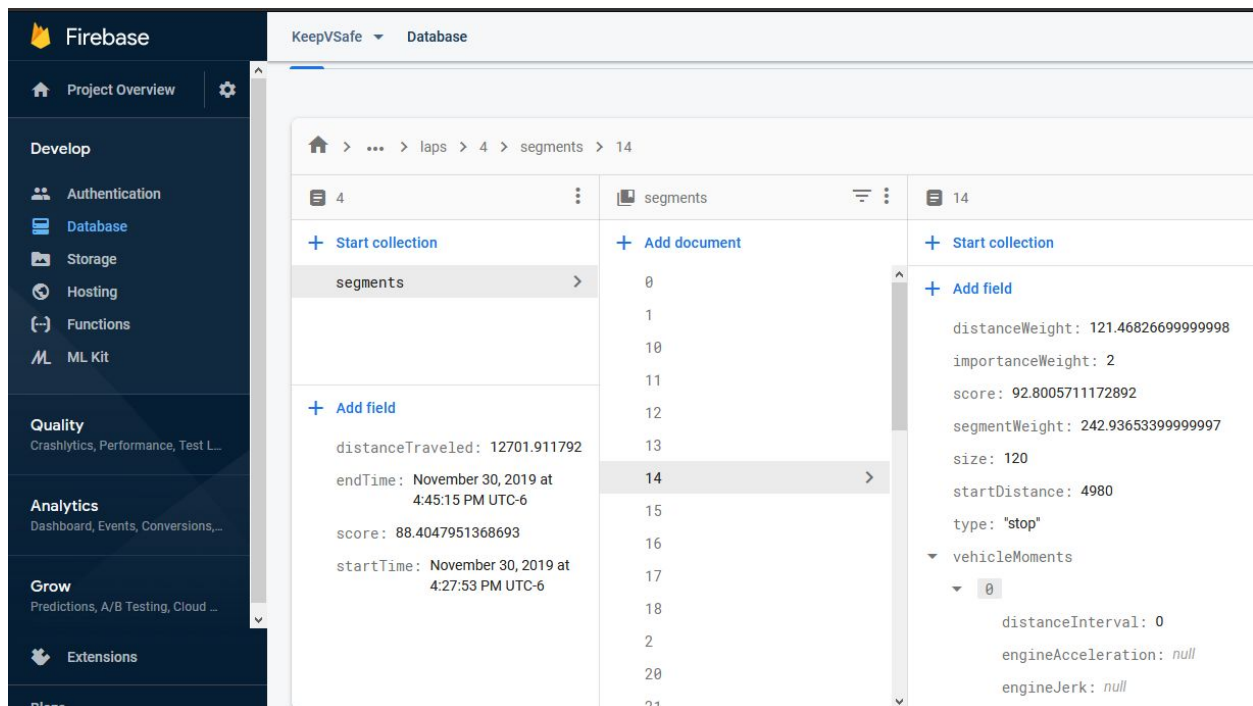





Figure 1.1






**John Doe**  
 Driver ID: 1  
 Overall Grade: 94.36686952%  
 Warnings: 1

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**Valerie Frizzle**  
 Driver ID: 2  
 Overall Grade: 96.93372065%  
 Warnings: 0

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**Ernest Prang**  
 Driver ID: 3  
 Overall Grade: 74.36686952%  
 Warnings: 31

Figure 1.2 (Before Firebase Integration)







Avatar	Name	Username	Average Score	Warnings
	Ernst Prang	prange	74.36686952	31
	John Doe	doej	94.36686952	1
	Valerie Frizzle	frizzlev	96.93372065	0

Figure 1.3 (After Firebase Integration)

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**John Doe**  
**Username: doej**  
**Overall Grade: 94.36686952%**  
**Warnings: 1**

Sat Nov 30 2019 15:35:54 GMT-0600 (Central Standard Time)

Lap 1: Sat Nov 30 2019 15:35:54 GMT-0600 (Central Standard Time)	Score: 94.4
Lap 2: Sat Nov 30 2019 15:53:38 GMT-0600 (Central Standard Time)	Score: 93
Lap 3: Sat Nov 30 2019 16:10:42 GMT-0600 (Central Standard Time)	Score: 92.7
Lap 4: Sat Nov 30 2019 16:27:53 GMT-0600 (Central Standard Time)	Score: 88.4
Lap 5: Sat Nov 30 2019 16:45:15 GMT-0600 (Central Standard Time)	Score: 94.9
Lap 6: Sat Nov 30 2019 16:21:24 GMT-0600 (Central Standard Time)	Score: 94.7

Figure 1.4



**John Doe**  
**Username: doej**  
**Overall Grade: 94.36686952%**  
**Warnings: 1**

Sat Nov 30 2019 15:35:54 GMT-0600 (Central Standard Time)

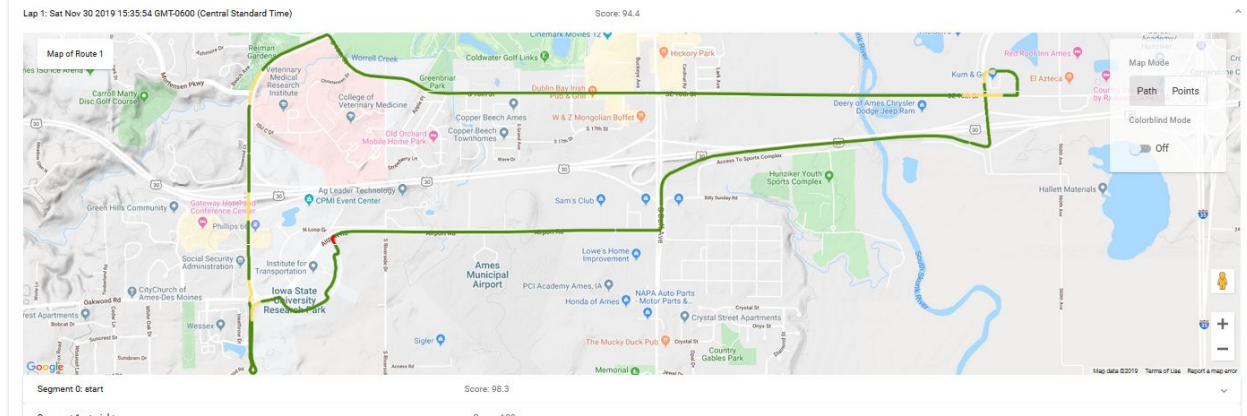


Figure 1.5

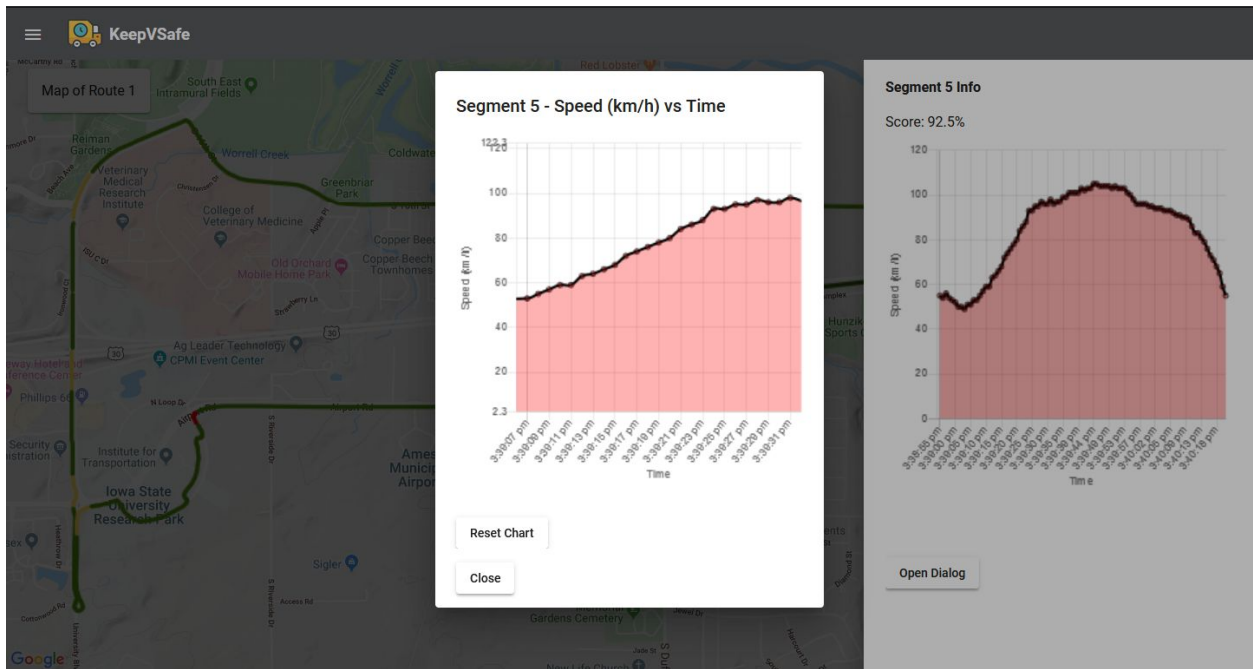


Figure 1.6

### Past 2 Weeks Accomplishments

- Andrew Damon: Updated the Drivers page after the data was being pulled in from the Firestore database (Figure 1.3).
- Freya Gaynor: Integrated Google Firestore to retrieve all data we currently have. Reworked styles to flow properly between pages as components. Created a new navigation menu to move between pages. Integrated map data with driver details page to retrieve recent information about segments and laps. Added graphs for speed vs time with zoom and pan capability.
- Skand Gupta: Worked on documentation.
- Sydney Ehlinger: Over Thanksgiving break I worked heavily on the driver list and drivers details pages on the UI, coming up with users, determining what information to be displayed and creating the mock data. Worked on poster design creating a template for the team to use based on rubric criteria. Began work on final presentation.

### Pending Issues

- Andrew Damon: None.
- Freya Gaynor: Complete styling fixes and create a map page that can bind segment and route data retrieved from Firestore.
- Skand Gupta:
- Sydney Ehlinger: None.

### Individual Contributions

<b>Name</b>	<b>Individual Contributions</b>	<b>Hours This 2 Weeks</b>	<b>Hours Cumulative</b>
Andrew Damon	Created a table like format for the drivers page that used the data pulled from Firebase. Implemented a search bar and the ability to sort the columns for a better user experience. The score and warnings will also change color based on how high or low the number is.	<b>12</b>	<b>56</b>
Freya Gaynor	Integrated Google Firestore to retrieve all data we currently have. Reworked styles to flow properly between pages as components. Created a new navigation menu to move between pages. Integrated map data with driver details page to retrieve recent information about segments and laps. Added graphs for speed vs time with zoom and pan capability.	<b>20</b>	<b>60</b>
Skand Gupta	Worked on documentation	<b>13</b>	<b>48</b>
Sydney Ehlinger	Worked heavily on the driver list and drivers details pages on the UI, coming up with users, determining what information to be displayed and creating the mock data. Worked on poster design creating a template for the team to use based on rubric criteria. Began work on final presentation.	<b>14</b>	<b>51</b>

### **Plans for the Upcoming Week**

- Andrew Damon: Finish work on final report and final presentation. Make improvements to improve the user experience of the application.
- Freya Gaynor: Complete styling fixes and create a map page that can bind segment and route data retrieved from Firestore.
- Skand Gupta: Work on final report and help out with the remaining things with the project.
- Sydney Ehlinger: Finish work on final report and final presentation.