
sdmay19-16: Smartphone App to Detect TwD (Texting while Driving)

Week 4 Report

Jan. 28 - Feb. 2

Team MembersKristina Robinson - *Project Lead*Andrew Knaack - *Lead Designer*Sara Mace - *Meeting Scribe*Lucas Golinghorst - *Test Engineer*Ryan Baker - *Architect*Derek Clayton - *Report Manager*

Summary of Progress this Report

Our focus for this reporting session was to continue the foundational work in the prior week, making progress on each module within our larger application. Group members continued work on the proprietary texting application, centripetal acceleration, image processing components. Pending issues from the last reporting period were also addressed, some members investigating the proper use to textboxes in the messaging app.

Pending Issues

- Multiple message display must be enabled within texting app, currently displays one message incorrectly.
 - Message typing error that pushes text off-screen must be resolved.
 - Display for acceleration module must be added.
 - Further investigation into using Tensorflow for image processing must be conducted.
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Plans for Upcoming Reporting Period

Kristina - Keep working on proprietary texting application.

Andrew - Abandon Android Spell Checker Session for a different solution.

Sara - Work on the proprietary texting application.

Lucas - Continue the development of the image capture software module using Tensorflow.

Ryan - Continue the development of the image capture software module using Tensorflow.

Derek - Continue work on accelerometer module with goal to display accel. data on app.

Individual Contributions

| Team Member | Contribution | Weekly Hours | Total Hours |
|-------------------|---|--------------|-------------|
| Kristina Robinson | Learned about messaging in android and started developing simple proprietary texting application. | 6.5 | 12.5 |

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|--------------------|--|--------------------|------|
| Andrew Knaack | Split apart texting module from spelling module (now two branches) for better organization. One last round of trying to figure out the spell checker session (unsuccessful). | 8 | 16 |
| Sara Mace | Learned about messaging in android and learned how to make the textbox that is at the bottom of the screen be shown when the keyboard is opened. | 6 | 14 |
| Lucas Golvinghorst | Worked with Ryan on continued development of the image capturing tensorflow module. | 6 | 12 |
| Ryan Baker | Worked with Lucas on continued development of the image capturing tensorflow module. | 6 | 12 |
| Derek Clayton | Developed skeleton code for acceleration module using Sara's gyro/magnet module as a foundation. Compiled git activity reports for documentation. | 6.5 | 12.5 |
| | | Total Group Hours: | 79 |

Gitlab Activity Summary

Andrew put spell checking into its own module [7 changed files, 161 adds, 0 dels] (1/30)

Kristina published texting app branch and created part of UI [2 changed files, 69 adds, 6 dels] (1/31)

Kristina made additional progress on texting application [6 changed files, 124 adds, 12 dels] (2/1)

Sara set the textbox to be visible while user is typing [5 changed files, 9 adds, 3 dels](2/1)

Derek published accel local branch to repository and set up module [6 changed files, 48 adds, 32 dels] (2/3)
