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

Week 9 Report
March 4 - March 10

Team Members

Kristina 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

The focus of this reporting period was to fix the display of our proprietary texting application while beginning its integration with the speed module. More resources were directed to the centripetal acceleration module as work on the image processing module started to wrap up.

Pending Issues

- Figure out how the check that the texting speed module integrated with the proprietary texting application.
- Troubleshoot centripetal acceleration module.
- Wrap up the image processing module.
- Explore location services method.

Plans for Upcoming Reporting Period

Kristina - Continue integrating texting speed module with proprietary texting application.
Andrew - Test new Location Services method (take it for a drive)
Sara - Continue integrating texting speed module with proprietary texting application and ask Andrew questions about how the texting speed module works.
Lucas - Find a good stopping point for the opencv application and write up closing report for image processing module. Continue working with Derek and Ryan on the centripetal acceleration module.
Ryan - Work with Derek on the acceleration module
Derek - Troubleshoot the centripetal acceleration module.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Kristina Robinson	Got formatting of text messages to display properly. Also, looked into Andrew's texting speed code to start integrating into proprietary texting application.	7	46

Andrew Knaack	Accelerometer must be calibrated for different phones, so decided to abandon in favor of Location Services which can be used online and offline	8	56
Sara Mace	Merged the proprietary texting application in with master. Then merged Andrew's texting speed code in with the proprietary texting application and started integrating it together.	7	50
Lucas Golinghorst	Continued debugging the Opencv application. Pulled the centripetal acceleration module branch and became familiar with what it's doing. Worked with Derek to figure out what assistance will be needed on this module going forward.	6	50
Ryan Baker	Worked with Derek to figure out what needed to be accomplished for his module, and looked into the code to see what was going on there.	6	47
Derek Clayton	Collaborated with Lucas and Ryan on the centripetal acceleration module. Experimented with Android XML to fix module display errors.	6	45.5
		Total Group Hours:	294.5

Gitlab Activity Summary

Sara added textspeedchecker method to integration (1 changed file, 33 adds, 5 dels).
Sara started integrating speed watcher with proprietary text app (1 changed file, 22 adds, 2 dels).
Sara updated the git exceptions (1 changed fiel, 1 add).
Andrew is now trying location services to get speed data (9 changed files, 126 adds, 6 dels).
Andrew increased the amount of sensor readings/averages to get accurate velocity (5 changed files, 38 adds, 16 dels).
Kristina corrected formatting of text messages (2 changed files, 4 adds, 20 dels)