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

Week 1 Report
September 7 - September 14

Team Members

Kristina Robinson - *Project Lead*
Sara Mace — *Meeting Scribe*
Lucas Golinghorst — *Test Engineer*
Andrew Knaack — *Lead Designer*
Derek Clayton — *Report manager*
Ryan Baker — *Lead Architect*

Summary of Progress this Report

Had two meetings with client
Distributed roles.
Drawn up plans.
Had three out-of-class meetings.
Conducted research per client's requests.
Established functional/nonfunctional requirements and constraints.
Developed conceptual diagram.

Pending Issues

Our first pending issue is setting expectations with client. We want to make sure we are on the same page as the client as the expectations, wants and needs. -Everyone will be involved with this.
Our second pending issue is that we need to tighten focus on research. There are many different possible solutions for detecting texting while driving. Android also has many different sensors that we could possibly use to try and do the detection. Given all the sensors and different solutions that exist already we need to narrow our scope and ideas so we can focus our research.

Plans for Upcoming Reporting Period

Get more details from client. -Everyone will be involved with this.

- Kristina will research sensors in smart phones, current apps that collecting driving data, and data privacy concerns.
- Sara will research sensors in android phones and available functions in android software development packages. She will also brainstorm questions to ask the client for the next client meeting.
- Andrew will address various sections of the project plan and organize the research collected by the group.
- Derek will conduct research on academic studies on methods used to detect texting while driving. He will also work on various parts of the project plan, with a focus on the technical considerations section.
- Ryan will conduct further research on methods to detect texting while driving to contribute to the research pool. And he will work on various parts of the project plan.
- Lucas will contribute to the research pool by looking at existing ways of preventing texting while driving. He will also contribute to various sections in the project plan and add the project description to the team site.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Kristina Robinson	Collaborated with Andrew to come up with a list of constraints and assumptions for the project. The assumptions will help us narrow down the scope of our project and make development simpler while still being able to create an effective application.	6	6
Andrew Knaack	Collaborated with Kristina to produce an exhaustive list of assumptions and constraints to be discussed for the next client meeting	6	6
Sara Mace	I researched different practical solutions that are already being used in the real world to detect texting while driving. This included the limitations of the current solutions.	6	6
Lucas Golinghorst	Conducted research on existing solutions to detect texting and driving. Started thinking of feasible solutions for our application in the context of what has already been done.	6	6
Ryan Baker	I researched several existing solutions on an application to prevent texting and driving. These solutions had already been developed and had scholarly sources on them.	6	6
Derek Clayton	Conducted research of ongoing and past studies involving distracted driving. Researched statistics on distracted driving to help define a problem supported by factual findings.	6	6
		Total Group Hours:	36

Gitlab Activity Summary

Action: pushed new, Mon Sep 10 2018
Author: krob16
