CPRE 491 Weekly Report 01

Date:
01/30/2017

Project Title:
Performance Livestock Analytics

Group Number:
DEC1708

Team Members & Roles:
Jacob Johnson - Key Idea Holder
Jeffrey Murray - Key Idea Holder

Client & Advisor:
Dane Kuper & Prof. Daji Qiao

Michael Rhodas - Team Leader
Rachel Hartman - Communication Leader
Ken Kohl - Webmaster

Weekly Summary

This week our team went about organizing our administrative positions as well as solidifying our streams of communication for the semester. We spent some time organizing the resources made available to use, figured out some first steps, and then acted upon those goals. This included work on the NDA and SIP documents as well as figuring out times that worked well for our team members to meet together. With this information we then contacted our project advisor for an initial meeting to solidify our project scope. We then plan to meet with our project client and learn a little more about the project and product involved. Finally, we each individually spent some time researching the technologies involved with iOS development including the Swift language and the Foundation and Cocoa-Touch frameworks.

Past Week Accomplishments

- Jacob: Organized some administrative details related to team documentation and communication. Setup our group email address and contacted Dr. Tyagi and then Dr. Qiao with our aggregated schedules to find an initial meeting time this week. Also spent a few hours exploring Apple's development site and familiarizing myself with the resources available there as well as the Swift programming language which I've spent a little time with in the past.

- Jeffrey: Researched some of the differences and benefits/disadvantages to both Objective-C and the Swift programming languages. Experimented a bit with the Xcode and AppCode IDEs to get a feel for which seemed more effective. Started tutorials for Swift and created a simple one page application using Xcode. Did a bit of background research on the company to understand what is currently available and what the task we will be looking at is like.

- Michael: I took some time this week to setup my communication utilities such as slack. Other than this, the week was mostly research into the basics of iOS development and good

approaches to develop the type of software you are looking for. I also signed all the necessary forms like the non-disclosure agreement and the special intellectual property form. We heard from our advisor and looks like we were assigned a new one which we will meet with this week as soon as we can.

- Rachel: Worked on getting Non-disclosure agreements signed by teammates. Getting forms organized and signed by team, so we can send them to our client. Researched IOS devlopment, downloaded Xcode, and started doing tutorials. Researched our company and developed an understanding of their business and what they are looking for in terms of an application.

- Ken: Started research into how IOS development worked and feasibility of development without an apple system.

Pending Issues

- Jacob: Still need to sit down and solidify project scope before we can begin any sort of development or exploration of the existing code base.

- Jeffrey: Continue working on understanding of Swift and continue research on whether it is the proper language to be using for this type of application.

- Michael: Need to meet with the advisor so we can narrow our research. Right now, the areas of research are a little too broad.

- Rachel: Figure out what our company wants from us in terms of an application interface (display, tables, views, data).

- Ken: Obtain an Apple computer to take part in development.

Individual Contributions

Name	Contributions	Weekly Hours	Cumulative Hours
Jacob	Administrative Organization, Email Setup, Advisor Contact, Swift Learning, iOS Development Research	4	4
Jeffrey	Programming language research, Swift learning	4	4
Michael	Research about iOS development.	4	4
Rachel	Form organization, meeting time coordination	4	4

Ken		4	4

Plan for Coming Week

- Jacob: Finish Apple's iOS development guide, spend some time writing some basic programs in Swift to get comfortable with it's syntax, do some research into using Jet Brain's App Code application in addition to or instead of Xcode.

- Jeffrey: Continue tutorials available for Swift. Do a bit more research on whether Swift will meet our needs for this project.

- Michael: Narrow down the research with the advisor and start developing and analyzing what we need to create.

- Rachel: Get familiar with xcode. Understand how IOS uses classes, methods, and objects.

- Ken: Obtain Apple computer. Further research IOS technology.

Summary of Advisor Meeting

This week we worked to aggregate our schedules and find possible opening for a first meeting. After hearing back from the assigned advisor, we found out we have a new advisor, Prof. Daji Qiao, assigned to us, and we will meet him on Friday, the soonest day he was available. The change of advisors has caused this slight delay in our ability to meet face-to-face.