

CPRE 491 Weekly Report 09

Date:

03/27/2017

Project Title:

Performance Livestock Analytics

Group Number:

DEC1708

Team Members & Roles:

Jacob Johnson - Key Idea Holder

Jeffrey Murray - Key Idea Holder

Michael Rhodas - Team Leader

Rachel Hartman - Communication Leader

Ken Kohl - Webmaster

Client & Advisor:

Dustin Balsley & Prof. Daji Qiao

Weekly Summary

This week we made firm progress towards our first spring goal which represents one completed user story in our minimum viable product. This included 2 tickets being merged and work being done on an additional 4 tickets as well as some project research. This research includes SQL and iOS integration methods as well as an investigation into possible barcode scanning systems and APIs.

Past Week Accomplishments

- Jacob: Helped organize trello board and organize tickets for sprint goal. Also aided in the merges of our first two tickets and am now going to work on the core feature of our first spring goal which should be done by Friday.
- Jeffrey: Created an iOS app that scans barcodes and displays an alert with the number read from the barcode. Spent some time trying to find an API to use for barcode number lookups.
- Michael: Looked into some SQL tutorials to use with iOS. We are switching our data base eventually to a SQL like interface to be worked out with our client.
- Rachel: Setup login and sign up for application. Worked on the storyboard in xcode and created multiple view controllers.
- Ken: Created IOS screen that pulls data from the database into a scrollable list. Looked into programs to redact parts of a PDF

Pending Issues (if applicable)

- Jacob: Waiting on one more ticket to be merged before I can begin my work. We are close though. Just had to get over the initial project and environment learning curves.
- Jeffrey: Need to look into the viability of barcode scanning, as most services are fairly expensive for the number of lookups they take.
- Michael: Looking into converting to a new database form factor.
- Rachel: Working on fixing authentication for logging in.
- Ken: Create “my medications” list and add it to the main list

Individual Contributions

Name	Contributions	Weekly Hours	Cumulative Hours
Jacob	Git Work, Trello Organization, Helped with ticket merges, about to begin core sprint tickets.	2	32
Jeffrey	Research, barcode scanning app	3.5	29.5
Michael	Research SQL and iOS	3	29
Rachel		4	28.5
Ken	Research. Data pulling test app	5	29

Comments

We are just now getting into the real meat of our project. The learning curves have been a little difficult and the number of things that can be worked on collaboratively is small at this time which has been slightly frustrating. However, as we get more tickets merged the surface area on the project should increase considerably and development will begin moving at a faster pace.

Plan for Coming Week

- Jacob: Will take on two tickets at the heart of this spring goal. This will include the creation of user specific databases for each user to contain their favorited medications lists as well as the logic for interacting with Ken’s master list and Rachel’s user authentication work.
- Jeffrey: Continue work with barcode scanning, I intend to try to determine the viability of using an API for barcode lookups for this type of application before this week’s adviser meeting. If this

does wind up being something that is viable, I plan to set up API calls for barcode scans to display the item.

- Michael: Look into integrating SQL and an iOS app. Complete some tutorial to do this. Contact the client to construct some sort of API we can use to call upon their database instead of our own local firebase.

- Rachel: Work on creating more view controllers. Polish up the entire application by fixing and making everything the same in terms of actions and changes between view controllers. Work on setting up new pages for the group.

- Ken: Create "my medications" screen. Merge both this and data list back into master. Possibly add search feature to data list. Talk with client about what can be shared and what should be redacted.

Summary of Advisor Meeting (if applicable)

We were catching up from spring break mostly this week. The firebase database we are currently using is set up and working with our app. We discussed our plan for the interface and how we were going to construct a test app for next week's meeting. We also talked about getting the database figured out with the client so we would no longer have to build upon something that will eventually be changed.