**EE/CPRE/SE 491 WEEKLY REPORT 6 Date: 2/29/16**

**Group number:**  DEC1610

**Project title:**  Continued Aggregation and Analysis of HealthCare Data

**Client :** UnityPoint Health, Des Moines, Iowa

**Advisor:** Tirthapura

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| **Team Member** | **Role** |
| Ben Kixmiller | Key Concept Holder |
| Haythem Ebrahem | Key Concept Holder |
| Cuong (Brian) Nguyen | Team Communications Leader |
| George Ndemi | Key Concept Holder |
| Jonathan Campbell | Team Webmaster |
| Aakash Sheth | Team Leader |

(All the above information should be there in each weekly report)

* **Weekly Summary (Short summary about what you did this week)**

We had a video call with Wade, Bob, Carey. In the meeting, Bob showed us the code from last semester, and walked us through important components. Wade and Carey want to add a few more deliverables. Aakash showed some mock up of the app. Group designed the architecture of the app and assigned tasks for each team member.

* **Past week accomplishments (please describe as what was done, by whom, when)**
* Aakash
  + Make all the mock ups for the app
* B- Set up MacInCloud - Haythem, Brian, George, Jonathan
* C- Learn Swift - all member
* D- Set up group website - Jonathan
* E- Weekly Report - Brian

* **Pending issues (if applicable)**
* MacInCloud don’t allow us to install or update anything, so we can’t use Xcode
* Swift learning curve is steep
* **Individual contributions**

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| **NAME** | **Individual Contributions** | **Hours this week** | **HOURS**  **cumulative** |
| Aakash | * Administrative duties (meeting docs, meeting minutes, forward emails between group and client) * Breakdown of tasks to assign to group members * UI Mockups   + Login, Dashboard, Journal, Devices, Add Stats   + Google Authentication * Show group member how to set up Xcode * Experiment with AppleWatch to retrieve data and store into HealthKit | 12 | 27 |
| Jonathan | * Worked on website * Attended meeting * Set up dev environment * learning swift | 6 | 22 |
| Ben | * Learning how to use Swift * Attended meeting * Google authentication on xcode * Reading through previous code from past group to understand how it works | 4 | 20 |
| Haythem | * Research Fitbit and ways to retrieve data from the wearable. * Study and practice swift programming. | 5 | 19 |
| George | * Google authentication on xcode. * Learning how to use Macincloud. * Attended the meeting. * Collecting data using Garmin vivobit. | 4 | 19 |
| Brian | * Create a basic app with Swift * Do some researches on how to install Mac OS on virtual machine * Install Mac OS on virtual machine * Learn how to use Mac * Install xcode * Research on how to authenticate to google * Attend the group meeting | 4 | 20 |

* **Comments and extended discussion**
* **Plan for coming week (please describe as what, who, when)**
* Aakash
  + There are several additional screens I need to mockup
  + I plan to integrate Google Auth
  + After login works, I may start on thumbprint auth to make the app more secure
  + Dashboard screen will take some time to implement since the UI is the most complex and starting point on the app. This may come before thumbprint auth so others can start developing off this template
  + Continue research on iOS design best practices
* B- Finish the group website - Jonathan
* C- Look into Garmin API for iOS - George
* D-Look into FitBit API for iOS - Haythem
* E- Implement Google authentication - all members
* F- Learn Swift - all members
* **Summary of weekly advisor meeting (if applicable/optional)**

No meeting with advisor.

Weekly client meeting went well. Carey Novak was also in on the call, along with Bob, the tech lead at UPH. We went through the current flow of the app as provided by last years students. This demo was the first time we actually saw the app functioning. Bob demonstrated the limited functionality of the app from data retrieval to display. We have a lot of room for improvement in both functionality and user interface. In addition, Carey emphasized the need to design around integration with electronic health records. That deliverable is attainable, but is further down the timeline as other aspects need to be integrated first. The development environment for those of us who do not have Macs is still being setup. Some people do not have permissions set up, and therefore have to rely on the client to fix these issues which takes time.