

**EE/CPRE/SE 492 WEEKLY REPORT 10**

**Date: 11/14/16**

**Group number:** DEC1610

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

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

**Advisor:** Dr. Mitra

| <b>Team Member</b>   | <b>Role</b>                |
|----------------------|----------------------------|
| Ben Kixmiller        | Key Concept Holder         |
| Haythem Ebrahim      | 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)**

This week we are demoing the back end to UPH. We have the tables and connection setup. We are beginning to work on the poster that is due when we get back from Thanksgiving.

**Past week accomplishments (please describe as what was done, by whom, when)**

❖ Aakash

- o I created more views for measurements like calories and step badges
- o I configured Mongo so now any proxied request may be saved
- o I started experimenting with ChartJS for Angular and was able to create suitable graphs
  - Still need to configure the library in the app

- o Worked on a script to automate fetching data
  - FitBit uniquely identifies logs, so deduping might be easy
- ❖ Ben
  - o Create tables for the backend
  - o Work on Poster
- ❖ Brian
  - o Debugged some functions for authentication
  - o Implemented new functions: reactivation, remove user..
- ❖ George
  - o Created new Azure databases as the free offer had expired.
  - o Prepare for the presentation.
- ❖ Haythem
  - o Present the project to the instructor.
- ❖ Jonathan
  - o 2nd database setup (azure account, tables)
  - o Presentation / meetings

✓ **Pending issues (if applicable)**



✓ **Individual contributions**

| <u>NAME</u> | <u>Individual Contributions</u> | <u>Hours this week</u> | <u>HOURS Cumulative Including Last semester</u> |
|-------------|---------------------------------|------------------------|---|
|             |                                 |                        |   |

|          |   |   |     |
|----------|---|---|-----|
| Aakash   | <ul style="list-style-type: none"> <li>● I have several days worth of FitBit data from a registered user</li> <li>● I avoided duplicating saved data thanks to FitBit logs having unique keys</li> <li>● I was also able to experiment with various queries since we had data locally instead of having to get from FitBit</li> <li>● I added Graphs to the UI <ul style="list-style-type: none"> <li>○ Took a significant time to run simple map/reduce because of unfamiliarity.</li> </ul> </li> </ul> | 8 | 125 |
| Jonathan | <ul style="list-style-type: none"> <li>● New db set-up</li> <li>● Poster work</li> <li>● Finished controllers for end-points</li> </ul>   | 8 | 84  |
| Ben      | <ul style="list-style-type: none"> <li>● Create the tables for the database</li> <li>● Work on the Poster</li> </ul>  | 4 | 69  |
| Haythem  | <ul style="list-style-type: none"> <li>● Work on the poster</li> <li>● Presentation</li> </ul>  | 4 | 107 |
| George   | <ul style="list-style-type: none"> <li>● Created database and tables.</li> <li>● Prepare on the presentation.</li> </ul>  | 4 | 103 |
| Brian    | <ul style="list-style-type: none"> <li>● Debugged some existing functions</li> <li>● Wrote more functions</li> </ul>  | 4 | 93  |

✓ **Comments and extended discussion**

✓ **Plan for coming week (please describe as what, who, when)**

❖ Aakash

○

○

❖ Brian

- Convert NodeJS application to common technology: AngularJS and PHP server

❖ Ben

- Work on poster
- Finish connecting the server and database

- ❖ George
  - Will Work on the poster.
  - Continue working on the backend.
- ❖ Jonathan
  - Poster
  - Endpoint testing
- ❖ Haythem
  - Prepare Poster
  - Android app for the web application

✓ **Summary of weekly advisor meeting (if applicable/optional)**

None