Meeting Minutes

Location: SICCS 2nd Floor
Date: November 15, 2017
Time: 4:05
Meeting Type: Client/Mentor

Attendance

Everyone

Topic: Design Review Dry Run/Fitbit Integration

Discussions:

- Fitbit - FPGA, data reduction on the fly
    - Sub minute level of heart rate
    - Minute level everything else
    - 3rd party data broker - fitabase, wearwear portal.
        - 100 dollars a year to get that information from the fitbit cloud
        - Data goes from device-phone-cloud
    - The api for free - given to Dr. Winfree
        - API lets us reach their data
    - Will store raw data for a week - starts popping off the oldest
    - Has to have a connection in order to have the information longer than a week
    - Data is sent out to the fitbit app running on any machine
    - Can't turn off bluetooth or background data if user cannot meet once a week
    - Gmail can have multiple flags per email, to have multiple users on one email
- How do you get the data
    - Wear wear gets updates from fitbit
        - It gets a unique token
        - Give unique token to fitbit and ask for data, and any missing data
        - Store information in a background database
    - It doesn't always update, it gets unpaired

- ○ We can't send messages if we lose pairing
  ○ Long time for zipping data from server to be downloaded
  ○ Let wear wear handle getting the data from Fitbit, we worry about getting the data from wear wear
  ○ Fitbit provides bad data
    - ■ Good step analysis
    - ■ Over inflates data by a factor of two
  ○ 29 million registered user
  ○ Wear wear formats the data so it's easier to read
- ● How to get access to wear wear
  ○ Github
  ○ Setup a user to directly access mySQL