

EE/CprE/SE 492 Bi-Weekly Report 5

Group 18

10/26/19 - 11/8/19

IoT Elderly Care Solution

Client: Andrew Guillemette **Advisor:** Daji Qiao

Team Members:

Jared Griffin:	Web App Engineer and GitLab Administrator	Siyuan Zeng:	Behavior Logic and Testing Engineer
Nidhi Dalvi:	Meeting Facilitator and Hardware Engineer	Robert Guetzlaff:	Hardware/Software Engineer
Tyler Borchert:	Hardware and Testing engineer		

Bi-Weekly Summary:

We did not meet with either our client or advisor in the last two weeks. We gave a presentation to our class over the issues that we have, and we also put together a projected timeline of when we plan on finishing parts of our project over the next month.

Last Period's Accomplishments:

- Tyler
 - Worked on brute force algorithm to get open closed action.
 - Tested it on cabinets.
 - Works at various speeds.
 - Timing is off if it is slowly closed.
 - Researching on way to find a best fit polynomial to attempt integration.
 - Working on reevaluating priorities.
- Jared:
 - Worked on summary section of overview dashboard
- Robert
 - Group 2's smart plug code is running on a pi
 - Auto detected smart plug when connected to my home network

- Found out we are locked out of group 2's ec2 instance
- Nidhi
 - Researching more on moving average to how to calibrate gyroscope and accelerometer
- Siyuan:
 - Reviewing all works done make make a timeline for this semester.
 - Implementing the daily summary service to give a feedback for a specific day's performance.

Pending Issues:

We are unable to access group 2's EC2 instance. We will need to create a work around. Testing all sensors at a time. Also we need to make the logic server interact with the correct instance when we got access to the groups2's instance or when we got a new one.

Individual Contributions:

Member Name	Individual Contributions	Hours this Period	Cumulative Hours
Jared Griffin	Worked on summary section of overview dashboard	5	61
Siyuan Zeng	Implement the daily summary service and review all the parts done before.	5	79
Nidhi Dalvi	Researching on moving average	4	60
Robert Guetzlaff	Got group 2's smart plug pi code running	8	85
Tyler Borchert	Worked on brute force method. Researching integration method. Reevaluating priorities.	4	100

Plans for the Upcoming Period:

- Jared
 - Finish summary section of the overview dashboard
 - Implement details section of overview dashboard
 - Begin working on the activity logger for the overview dashboard
- Tyler:
 - Work on integration method.
 - Begin integrating all prototypes
 - Begin testing

- Robert:
 - Intercept group 2's code and write directly to the database avoiding the ec2 instance we are locked out of.
- Nidhi:
 - Test sensors with the group of hardware.
- Siyuan:
 - Get the daily feedback services done and check if web app works fine with the backend.

Summary of Weekly Client Meeting and Bi-Weekly Advisor Meeting:

Client Meeting:

No meeting this period

Advisor Meeting:

No meeting this period