

Senior Design 491 - Weekly Report - DEC15-04

Week 4 (2/9/15 - 2/16/15)

Advisor: Suraj Kothari
Project: Future Wearables
Client: Ted Krepos (*"Krepos Physical Therapy and Performance"*)
Ensoft - Jeremías Saucedo
Members: Aaron Reyes - Team Leader
Nick Plutt - Webmaster
William Park - Communication Leader
Josh Cline - Key Concept Holder #1
Nick Gonner - Key Concept Holder #2

Weekly Recap:

This week was a planning meeting for the required documents as well as splitting into our small teams (Software / Hardware). Most of the work done was done individually and put together at the end for all the design documentation. We also planned with Jeremías when we will be available to meet with him to further discuss the design of this project.

Meeting Overview:

February 10, 2015 - **Meeting-05**

Duration: 2 Hours

Attendance - **05**

| | |
|--------------|-----------|
| William Park | In Person |
| Nick Plutt | In Person |
| Aaron Reyes | In Person |
| Josh Cline | In Person |
| Nick Gonner | In Person |

- 1) This week was focused on working in our small teams so that we can each produce design documentation for the software and hardware aspects of our project.
- 2) The software side is working on a proposal and design interface on how we picture the app being used. Most of it will be confirmed with Jeremías as to if it is the right direction to follow through with the design process later this week. (Wednesday 18, 2015 [Meeting with Jeremías])
- 3) The hardware side has been working hard on researching parts that we believe we will need for this project. We have been looking at various sensors and boards to make sure that everything that will be purchased will work well with each other.
- 4) This meeting also covered some basic teamwork communication stuff as we will be moving towards working in our small teams more often rather than on the project as a whole. Different forms of communication are starting to be implemented (GitHub Commits / Trello) so that all the group members are up to date on where we are at with this project.
- 5) Software Team also worked together on handling the website so that it is working fluidly. So far the website is very barebones, however, more will be added as time and functionality comes along.
- 6) Software Team has also committed to GitHub a initial outline (skeleton) of the android application. More functionality to this app will be added once the sensors are in place. For now, the app just handles deals with the basic user interface of the application as we see fit.

Accomplishments this week:

04 - As a team we held a rather large meeting discussing the design documentation of the project, as well as talking with Jeremías about the details that should be incorporated in the project. We will be meeting with Jeremías on the 18th (Wednesday) to show him an outline of our design documents to see if he has any input to what we have been doing.

Pending Issues:

05- Still having issues with setting a time to meet with Ted Krepos. We are still making arrangements to see his facility, or in the worst case, do a video chat with Ted.

Planning:

05

1. Finalize the parts we need for this device. (*Continued from Week 3*)
2. Work on design diagrams for Hardware and Software. (*Continued from Week 3*)
3. Website was uploaded to the webspace Iowa State provided. Missing a lot of special functionality, however it will be updated as things go along. For now, it has some basic functionality to navigate through our menus.

SITE URL : <http://dec1504.sd.ece.iastate.edu>

4. We have a meeting planned with Jeremías to review our design documentation. (Wednesday Feb. 18, 2015)

Individual Contributions

Aaron : meeting contribution, Researched hardware, meeting organization (3 hr)

William : meeting contribution, Weekly Report, Website (4 hr)

Josh : meeting contribution, Research IMU vs Gyroscope/Accelerometer , Website, Setup of Android App, Setup Software Design Documentation (6.5 hr)

Nick P. : meeting contribution, Website (3 hr)

Nick G. : meeting contribution, Researched hardware parts list, hardware design (4 hr)

Total Contribution for the Project:

Aaron Reyes (11 hrs)

William Park (11 hrs)

Josh Cline (13.5 hrs)

Nick Plutt (10 hrs)

Nick Gonner(13.6 hrs)