

Senior Design 491 - Weekly Report - DEC15-04

Week 2 (1/26/15 - 2/2/15)

Advisor: Suraj Kothari
Project: Future Wearables
Client: Ted Krepos (*"Krepos Physical Therapy and Performance"*)
Ensoft

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 we met with one of our clients, Jeremías Saucedo, from EnSoft. The meeting was with everyone including Suraj Kothari and Carey Novak. We did not have a chance to meet up with Ted Krepos (our main client), however we have plans to visit him soon in Cedar Rapids. We also did some basic planning this week on what we need to be focusing on within the next upcoming two weeks.

Meeting Overview:

January 26 , 2015 - **Meeting-02**

Duration: 1 Hour

Attendance - **02**

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

- 1) This meeting was the first formal meeting with our advisor as well as one of our clients. We went over the project description as well as some key ideas that should lead our project to success.
- 2) We did some introductions to give Jeremías a better understand of the team he is working with.
- 3) We went over some of the details about the project and the focus of the wearable would be.
 - a) This device would be used for physical therapy, and well being of the user.
 - b) Physical Spine posture as well as muscle activity will be recorded so that the Physical Therapist will have an idea of how the user of the device is handling their posture.
- 4) Plan a saturday where Jeremías and team DEC15-04 will go down to Cedar Rapids to have a meeting with Ted Krepos (the main client).
- 5) Create a plan of action , and make sure that we create a timeline that includes deadlines so that we are on time with our project. Communication is key.

January 29, 2015 - **Meeting-03**

Duration: 1 Hour

Attendance - **02**

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

- 1) This was a small meeting to figure out our action plan for the next following two weeks.
 - a) Figure out what parts we need to buy for the device.
 - i) Create a list of parts we need
 - ii) Pricing chart
 - iii) Schematics / Hardware Design
 - b) Software Design chart needs to be up and running
 - i) Project outline / use case / etc.

- ii) Trello for Software Planning will be created and used along side GitHub to give an action plan of how things are going.
- c) Figure out a Saturday when our team will be able to visit Cedar Rapids
 - i) February 28
 - ii) March 7
- d) Software Design Aspect
 - i) Create a software diagram / flowchart
 - ii) Figure out what will be placed in the database
 - iii) Barebones of the Software Application
 - (1) Startup
 - (2) Buttons
- e) Create / Setup the Senior Design website on the iastate web server.

Accomplishments this week:

02 - Had our first meeting with our Client / Advisor . Asked questions to narrow down the scope of this project.

03 - As a team we talked about our goals for the next upcoming weeks. We figured that although we can not do much work until the parts list is ordered, we can still manage some documentation as well as setting up some of the bare bones of the software application as well as website for our project.

Pending Issues:

02 - We still need to meet with Ted Krepos to get a better understanding of what he envisions for the project.

03- We need to figure out what is the most cost effective and interchangeable parts to use for this device. The parts since they are all bought separately, we need to make sure that they all are able to communicate with each other off the start without actually physically seeing the device.

Planning:

02

1. Head to Cedar Rapids and meet with Ted Krepos

03

1. Figure out the parts we need for this device.
2. Get design diagrams for the Hardware and Software ready.
3. Setup the Website.
4. Start Barebones for Website / Software Application.

Individual Contributions

Aaron : meeting contribution, Research into potential parts (3 hrs)

William: meeting contribution, weekly report (3 hrs)

Josh: meeting contribution, Research into potential parts (3 hrs)

Nick P.: meeting contribution, Website structure, (2 hrs)

Nick G: meeting contribution, Research into potential parts (4 hrs.)

Total Contribution for the Project:

Aaron Reyes (6 hrs)

William Park (6 hrs)

Josh Cline (6 hrs)

Nick Plutt (6 hrs)

Nick Gonner(7 hrs)