From: Team 2 1/21/16

To: Team Members

Santiago Agudelo [sagudelo@fau.edu](mailto:sagudelo@fau.edu) (eng)

Bob Fennell [rfennel1@fau.edu](mailto:rfennel1@fau.edu) (Eng.)

Charles Florestal [cflorest@fau.edu](mailto:cflorest@fau.edu) (Eng.)

Ivan Kalytovskyy [ikalytov@fau.edu](mailto:ikalytov@fau.edu) (Artist)

Leslie Yanes [Lyanes@fau.edu](mailto:Lyanes@fau.edu) (Nurse)

Update: Our presentation date is March 2. One week from Wednesday. Given we didn’t get to talk I put it some proposed dates to meet our schedule. Let me know what you can do.

It would be nice to meet in person. Our class is on Wednesday and Fridays from 12:30 till 1:40 pm in Engineering East building room 212. On the NE side of the campus. Perhaps after class? There are conference rooms downstairs. When would be convent?

Santiago was able to set up an uberconference.com but we all couldn’t make the call, he will try again Wednesday.

From Ivan:”Just wanted to touch base,

You guys send me the way everything should look and I’ll try to make that visually;

Also what are we targeting cell phone, tablets, sizes?” can programmers do smart resize on the app? Let me know! ))

We are using Nexus 7 from Asus. About 3.75 wide. x 5.5 inches tall screen size. It is running and android operating system 5.1.1 that is common or close to a lot of other products. Very close to a Samsung tablet I have. Google, android is used in over 400 products and 40 manufacturers. The software is somewhat portable between products, sizes and versions or easily changed. The screens are touch screens and colored. In the commercial world the app would have to work in portrait and landscape position. Buttons, and data fields are easy to do and we can change sizes. They are boxy and crude however. Harder is dynamic imaging or changing graphs.

In order to attach sensors we are going to have to process the sensor information, change it to a digital format and then transfer the info to the nexus. For this we think we need and auxiliary computer (Pi microcomputer) and as yet, an un-designed medical amplifiers. Bob got a Pi microcomputer and just got it working. There is a shield interface board that was to fit into it. Charles also has a Pi computer and had spotted that fact that the shield doesn’t really fit at all. Plan B then is to build our own bread board to fit the sensors. I just got in some cables that go from the Pi computer to a breadboard that we could build on. I will bring in Wednesday to show.

Big question for Leslie? What physical symptoms do you need to monitor? What type of sensors will we need? Probably only one. What buttons and screen information would you want? Send us all an email with your thoughts as soon as you can. You can do it through our group option in the BB page at the bottom.

Hello to one and all. Welcome to Team 2. Now that we all know whom is who we can get going. Time is a bit short to meet our first deadline. So I am pushing ahead with this first memo. If someone else would like to take over this task let me know.

The topic assigned to us is Healthy Sleep, and Sleep Hygiene. Our goal is to come up with concepts and equipment that will help measure, promote and enhance healthy sleep. Implied in this is that we will use equipment, a sensor of some type, and a tablet to help somehow. We are a team because each of us has unique talents that will help complete this project. At the same time the whole team is responsible for getting the job done and may help each other out.

The roles in general: Leslie will tell us, how to enhance sleep, how to measure it and how to would like to see it presented to her. She has two roles she is our customer and medical advisor. She is up first with a lot of interaction with the rest of us. The rest of us should also research the topic.

Ivan is our visual artist, industrial designer. His role is to find the means to present the information that will appear professional, is easy to follow, pleasing, informative, obvious to use and leaves our customer and user satisfied and wanting more. Ivan’s work will be key in presenting our first Storyboard in two weeks.

Bob, Charles and Santiago are hardware and software engineers. Their job is take your requirements (be prepared for detailed questions, do not be offended, engineers are like that) and make something that works. Our goal is that by the end of the semester we have a working prototype with at least one sensor app that can display on a Nexus 7 tablet.

We have some deadlines coming up soon. We have to present a story board of what we want our equipment to do in about two weeks

To get started we need

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| Person | To Do | Due Date | Result |
| Leslie | Write out what you think we need and send it to us. What sensors should we use? | 2/21  2/24 got to have something to go start on |  |
| Santiago | Set up Visional Conf call  Send info to all via email | Suggest Sunday Night 2/21  8 pm but let Santiago know | Was set up ; uberconference  But need to reschedule |
| Ivan | Get familiar with the presentations made before and come with a format  (Balsamiq maybe)  Need Basic concepts of screens | Status at meeting and recommendation  Rough draft of screens 2/24  Review of screens 2/28  Presentation 3/2 |  |
| Bob | Work on getting Pi 2 working  Investigate sensors received from Professor  Update minutes | 2/21  Ongoing  2/21 | Got a Pi 2 working |
| Charles | Research medical analog amp., proposed system | Status 2/21 |  |

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