***EE 491 WEEKLY REPORT 5 Date: for example 10/4/16-10/10/16***

***Group number: 26***

***Project title: Breast Feeding Flow Meter***

***Client &/Advisor: David Whitaker/ Santosh Pandey***

***Team Members/Role:*** Chukwudike C-Madu- Team Leader, Michael Brumfield- Team Web Master

Richard Milan- Team Communication Leader, Daryck Brown- Team Key Concept Leader

Boris Ndoutome- Team Key Concept Leader

(All the above information should be there in each weekly report. The format/color scheme etc need not be the same.)

* **Weekly Summary (Short summary about what you did this week)**

This week, the team met with the advisor Dr Pandey to discuss and finalize our project solution and approaches. We discussed about the hardware & software implementation; we decided to use the LED light sensor to detect the flow meter for our hardware solution. In the software side, we discuss about the external components of the APP and design a context diagram.

* **Past week accomplishments (please describe as what was done, by whom, when)**
* Chukwudike C-Madu: Worked on researching sensors and making sure they would not be risked as a choking hazard to child.
* Michael Brumfield: Persistent measurement of data on mobile application
* Richard Milan: Worked on finding parts for the LED sensor and setting up slides to present to our client about our final project solution.
* Daryck Brown: Worked on setting up the meeting with our group advisor, researched different methods of measuring flow, created slides to present hardware concepts to our client, and started searching for LED emitter/sensors online.
* Boris Ndoutoume: Worked on analyzing the external component that would connect to our APP and designed the context diagram.
* **Pending issues (if applicable)**

Nothing to be concerned for now

**Individual contributions**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **NAME** | | **Individual Contributions** | | **Hours this week** | | **HOURS**  **cumulative** | |
| Chuck | | researching sensors | | 4 | | 12 | |
| Micheal | | Application Life Cycle | | 2 | | 9 | |
| Richard | | hardware design | | 4 | | 10 | |
| Daryck | | hardware documentation | | 4 | | 10.5 | |
|  | Boris | | context diagram of software | | 5 | | 11 | |

* **Comments and extended discussion**

The team has had enough information to start to move forward from meeting with the client and the advisor. The advisor gave us enough resources to move forward. We presented the different potential implementations to the client and he seemed satisfied. We will be ordering some part for the hardware and start to move along.

* **Plan for coming week (please describe as what, who, when)**
* Chuck: Will work on researching different types of sensors and look into ordering parts.
* Michael: Functional requirements of the app
* Richard: Will work on ordering parts for the sensor and conduct testing for light interference.
* Daryck: Will go to the electronic shop to find applicable LEDs and obtain their model numbers.
* Boris: Will work on editing the context diagram and work on the functional requirements of the APP.
* **Summary of weekly advisor meeting (if applicable/optional)**

This week has been productive with us meeting with our advisor and client. We have enough resources to finally get started.