Submission Date
Project Name
Student Names
Project repository
SensorsEffectors choices
The database will store
The mobile device functionality will include
I will be collaborating with the following company/department
My group in the winter semester will include
50 word problem statement
100 words of background
Current product APA citation
Existing research IEEE paper APA citation
Brief description of planned purchases
Solution description

9/10/2019
Lumi Monitor
Harsimran Saini, Kyle Voduris, Gino Seridon
https://github.com/simransaini1999/Lumi-Monitor
Light Sensor, Sound Sensor, Motion Sensor
Login info, amount of sleep, sound recordings, time the child has been fed
Turn on/off the lumi, listen to songs, change the colors of LED and view data on the amount of sleep
Humber College School Of Media Studies and Information Technology
Kyle Voduris and Gino Seridon
The lumi monitor will allow parents to monitor their baby through a 2 way connection between the lumi monitor and an app on the phone. The app will allow the parents to sense if their baby is awake and this will be with the use of the motion sensor. Also the parent will be able to adjust the lighting of the lumi monitor and can listen if the child is making any noises by using the mic on the monitor.
Light sensor will detect the brightness of the room and adjust the level of light of the LED. The LED is going to be a multicolor LED so the colors of the LED can be chosen through the app. Also the brightness of the LED can be controlled through the app. The Parents can also play songs through the app by using the speakers on the lumi monitor. Therefore the volume can also be adjusted on the app. Inconclusion there will be data stored in the app as the amount of time that the child has cried, amount of sleep and time the child will be needed to be fed and etc.
Ehara, R. (2015, January 6). Listnr: Your Listening Assistant. Retrieved from https://www.kickstarter.com/projects/797220287/listnr-your-listening-assistant
W. A. Jabbar, H. K. Shang, S. N. I. S. Hamid, A. A. Almohammedi, R. M. Ramli and M. A. H. Ali, "IoT-BBMS: Internet of Things-Based Baby Monitoring System for Smart Cradle," in IEEE Access, vol. 7, pp. 93791-93805, 2019. doi: 10.1109/ACCESS.2019.2928481 URL: http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8760478&isnumber=8600701
raspberry pi, arduino, RGB LEDS, Speaker, Motion Sensor, light Sensor
This will allow parents to monitor their children by using an app. The app will allow multiple adjustemnts so the parents would not have to go and keep checking on their child if he/she is awake.