Submission Date	2019-09-10
Project Name	Lumi Monitor
Student Names	Kyle Voduris, Harsimran Saini, and Gino Seridon
Project repository	https://github.com/kylev1999/LumiMonitor
SensorsEffectors choices	Light Sensor, Sound Sensor, Motion Sensor
	Login information, Track the amount of sleep the child has gotten, Time child has been
The database will store	fed, Sound recordings
	Listen to sound coming from the Lumi, Change the colour of the LED/cycle through
The mobile device functionality will	colours. Play songs to calm the baby down, Turn on/off Lumi. View data on amount of
include	sleep, feeding, etc. and adjust sensors.
I will be collaborating with the	
following company/department	Humber College School Of Media Studies and Information Technology
My group in the winter semester will	
include	Harsimran Saini and Gino Seridon
	The Lumi Monitor will allow parents to monitor their baby with one device though the
	convenience of their smartphone. The app will allow parents to check if their baby is
	awake with the use of motion sensors, adjust the light of the Lumi depending on if the
	baby is awake or not and can listen if their child is making any noise or crying with the
	use of the microphone. Songs can also be played from a music playlist to calm the
50 word problem statement	baby down.
	A light sensor will detect the light level of a room and dim or increase the brightness
	of the LED. The LED will be a multicolour or RGB LED, the colour of the LED can be
	chosen through the app, as well as if the LED should cycle through different colours.
	The LED brightness can also be changed through the app. The parent can listen to the
	child though the app using a microphone. The parent can play songs though the app
	using speakers on the Lumi monitor. The volume can be adjusted on the app. Various
	data will be stored in the app such as the amount of sleep the child has had, times
100 words of background	that the child has been fed, etc.
	Ehara, R. (2015, January 6). Listnr: Your Listening Assistant. Retrieved from
Current product APA citation	https://www.kickstarter.com/projects/797220287/listnr-your-listening-assistant
	M. P. Joshi and D. C. Mehetre, "IoT Based Smart Cradle System with an Android App
	for Baby Monitoring," 2017 International Conference on Computing, Communication,
	Control and Automation (ICCUBEA), Pune, 2017, pp. 1-4.
	doi: 10.1109/ICCUBEA.2017.8463676
	URL:
Existing research IEEE paper APA	http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8463676&isnumber=846
citation	3637
Brief description of planned	RGB LED(s), microphone, speaker, motion sensor, light sensor, Raspberry Pi 4
purchases	(broadcom development platform), Arduino
	The Lumi Monitor will make parenting easier. The Lumi Monitor will allow parents to
	monitor their baby's well being with one device through an app. The app will allow
	various adjustments the Lumi monitor, they can listen and monitor if the child is
	awake, and play music to relax the baby. The app will also show analytics of the
Solution description	amout of time the baby has slept as well as a tracker of when the baby has been fed.