Submission Date	2019-09-10
Project Name	Lumi Monitor
Student Names	Gino Seridon, Kyle Voduris, Harsimran Saini
Project repository	https://github.com/gseridon/LumiMonitor
SensorsEffectors	
choices	Motion Detector, Light Sensor, Microphone, LED Lights, Audio Speakers
	Information about active/inactive times and duration, user login to account for
The database will store	personal customization of Lumi, audio recordings and music storage
The mobile device	Ability to adjust and customize the monitor's lights, activation based on surroundings
functionality will	(motion/light/sound detection), viewing data infant data on times of sleep (and
include	duration), as well as the played audio (Iullabies) and its volume.
I will be collaborating	
with the following	
company/department	Humber College School of Media Studies and Information Technology
NA. cue un in the uninter	
My group in the winter semester will include	Kula Vaduris Harsimran Caini
semester will include	Kyle Voduris, Harsimran Saini Designing a baby monitor with a working lamp and audio input and output system
	with respective sensors. This device should allow the newborn's parents to better
50 word problem	monitor their child, and alert the parents during the child's times of need via an
statement	associated mobile device.
Statement	associated mobile device.
	With baby surveillance in mind, Lumi is designed to provide a customizable nightlight
	using an adjustable LED, as well as a working audio feed to input the surrounding
	sounds and output lullabies. The device can play music or an audio feed directly from a
100 words of	mobile device. The volume and audio type can be adjusted. This device will be able to
background	record times when the child is awake, as well as times of sleep.
	Pampers. (n.d.). <i>Lumi by Pampers</i> . Retrieved from
Current product APA	https://www.pampers.com/lumibypampers?gclid=EAlalQobChMly-
citation	7Mypa65AlVFLblCh3S-A2PEAAYASAAEgJy4vD_BwE
	Jabbar, W., Hamid, S., Almohammedi, A., Ramli, R., & Ali, M. (2019). IoT-BBMS:
Existing research IEEE	Internet of things-based baby monitoring system for smart cradle. <i>IEEE, 7,</i> 1-15. doi:
paper APA citation	10.1109/ACCESS.2019.2928481
Brief description of	
planned purchases	Raspberry Pi, Speakers, Microphone, RBG LED Strip, Motion/Light Detector
	The raspberry pi will have the processor. The LED and speakers will be activated by
	both the motion sensors and the light sensors. The presence of motion, light and
	sound near the monitor will determine the activity of the LED and the speakers. The
	LED will act as a customizable baby lamp that will adjust based on motions near the
	monitor. A microphone is used to pick up sounds near the baby and can activate the
	speaker to play music or play audio feed from a connected mobile device. We plan to
	improve on the design and allow more freedom with customization and convenience
Solution description	for new parents.