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Network and IOT Application.

Git Repo:

https://github.com/OwenCorrigan76/IOT_Application_Assignment

I would like to restrict the time my son spends on his PS4. My proposal is as follows:

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Using the Mac Address / IP Address of the PS4 which is on my home network when powered on, the Raspberry pi will detect when the PS4 is powered on, notify me through my web app to my mobile phone, start a countdown timer to 60 minutes. The sense hat will count down (in green) the minutes using the led's and when that 60 minutes has elapsed, the sense hat lights will turn red and tell the user via Bluetooth speaker to vacate the vicinity. The camera / motion sensor will be set so that after 2 minutes, if there is someone in the room, I will receive a message stating STILL GAMING!. If there is no movement, I will get a message saying ALL CLEAR.

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Proposed Technologies

- Raspberry Pi   Virtual Machine via VirtualBox
- Bluetooth   Wi-Fi
- UDP   TCP
- HTTP   MQTT
- Thing Speak   Blynk