**Questions**

* How will router be turned off? How can it be made so that we cannot tamper with it?
* How will the exercise be measured? What information will be available to the program about the user’s activity?
* Can the user just shut down the device where the program is running and get unlimited screen time? If so, how can that be prevented?
* Does the user have to submit the application as their own app, or will any one app be available to everyone globally?
* What if the user needs the internet for an emergency (such as an important business meeting), and they do not have enough exercise?

**What is a router?**

* Provides connectivity to all of the devices in a household and forwards requests from the devices.
* It is a way for devices to connect to the rest of the internet.

**How to make a virtual router?**

* 2 main components: Cellular device to get the internet connection, and the wifi portion which clients connect to.
* Find way to make a router’s functionality virtual

**Creating wireless hotspot:**

* Create hotspot for other devices to connect to on Ubuntu (instructions online)
* Connect devices to hotspot created

**Results:**

* Devices wearable to connect to hotspot
* No internet connection
  + Expected, there can only be one wifi link at a time, laptop to other devices, or devices to laptop

**Next steps:**

* Use USB to connect phone with cellular data (cellular device) to laptop, resulting in USB tethering
  + Will connect the laptop to the internet, so clients connected to hotspot can access internet.

**Writing script to get data**

* Instead of using OAuth 2.0 Playground, used python script to get # of steps (from GitHub), had to modify to make it work on current version of python
* Installed pip3 (to get dependencies for python 3)
* Installed api client

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* Needed to create new credentials for 2 users, to continue with scripting

**Creating Users** (Currently using 2 phones, can add 1 bracelet by connecting it to one of the accounts later)

* Used 2 existing unused accounts, and created credentials in Google Fit
  + Chrome browser was old, so had to update it (detour)
    - Did not have key to update, so had to get key using command
    - Was then able to update chrome
* Created credentials for User 1
* Switched to editing script with PyCharm Edu (easier than command window) to be efficient
  + Had to re-do many things, so decided not to use it and use text editor
* Authorization error occurred (Same thing as OAuth Playground, so was at least synced)
* Tried to get step count - Playground worked ok, but script in command window did not.
  + Was confusing verification code with client secret, which is why it didn’t work
* Was able to access data, showed value error only because no data was inputted yet
* Got phone ready
  + Downloaded Google Fit app on phone
  + Added steps to Google Fit app
* Millis
  + Millis (or milliseconds) is the exact amount of milliseconds since Jan 01, 1970, at midnight.
  + Is a standard amount for computer time
  + Used in many calculations because of the accuracy it provides
* Was not able to sync data, because of an unknown issue
* Finally synced after ~30 minutes, on OAuth Playground
* Synced a script running in command window, was able to read correct number of steps.

