

GM1 medical data

Sensors

1. Pressure Sensors
 - Force of user
 - Characteristic force curve
 - Frequency ~4Hz
 - Sensor can be used to measure strength and dexterity (the longer they push down the button, the worse their dexterity.)
 - Data will be displayed as average force versus date and speed of push versus date.
 - We will also look into displaying time between button pushes as another metric of coordination
2. Accelerometer
 - Provides data on tremors.
 - Frequency ~20Hz
 - Data will be displayed as magnitude of tremors against date.
3. Temperature Sensor
 - Provides data on temperature.
 - Frequency ~1Hz
 - Can be used to track temperature of user. Readings must be adjusted for average temperature.
 - Data will display as users' average difference in temperature to ambient temperature against date.
4. Volume Sensor
 - Provides data on average and maximum volume of TV show being watched.
 - Frequency ~1Hz
 - Used to track hearing loss by the average active volume. (attempt to filter out background noise and average out volume for data above certain threshold so data not affected by silence)
 - Data will be displayed as average volume against date.

