Emmanuel Agu

Computer Science MQP Interests
emmanuel@cs.wpi.edu
Shimmer Data Gathering App
(Gathers data using Open mhealth API)

Open Mhealth API

Data Analysis, Machine learning
- Physical activity, sleep, diet, text

Visualizations

Fitness Trackers Supported by Open Mhealth API
- Jawbone
- Fitbit

Devices Supported by Open Mhealth API
- Weight scale
- Blood pressure

Third-party EHRs Supported by Open Mhealth API

Apps Supported by Open Mhealth API (Android, iPhone)
- Runkeeper, misfit
- fatsecret
- Google Fit
- myfitnesspal

http://www.getshimmer.co/
https://github.com/openmhealth/shimmer
http://www.openmhealth.org/
The MQP

• Using OpenmHealth as base
  • Design, program health data analysis system (app + server)
• Gathers data from user’s apps, devices, etc (Android + iPhone), devices, smartwatch, etc
• Integrates, analyzes data, machine learning
• **WPI Health Study:** Enrol at least 10 iPhone, 10 Android users for 3 wks
  • My step count, exercise, heart rate, etc vs other WPI community members
• User can compare their health data against others in WPI community
• Do some evaluation of the system (user impression, experience, etc)