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Computer Science MQP Interests
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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

iHealth®

Apps Supported by Open Mhealth API (Android, iPhone)

fatsecret

Google Fit

myfitnesspal
Calorie Counter & Diet Tracker

Runkeeper, misfit

Shimmer Data Gathering App
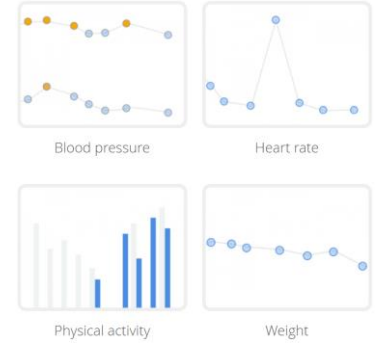(Gathers data using Open mhealth API)

Open Mhealth API

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

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

Blood pressure

Heart rate

Physical activity

Weight

Visualizations

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)