

Functionality

To what extent does the system adjust or allow adjustment for individual preferences?

How easy are such adjustments to locate and manipulate?



Functionality

Will this product be capable of delivering perceived value if the user fails to consistently manually enter data?

If not, what rewards does the user receive for data entry?



Functionality

Does this product depend on non-primary users such as doctors to accept this product?

If so, how have you verified that they will be willing to do so?



Functionality

Does the product in any way add to user daily workload?

If so, what indications are there that the benefits are sufficient for time invested?



Functionality

Can the user gain benefits when they use product without having to have invested effort on previous occasions?

If not, how much effort will they need to invest, and why will the user do so?



Functionality

How much effort per day will users have to invest in order to attain benefits?

How is this request for user time justified?



Functionality

Is this product meant for frequent usage?

If so, can it support user needs without requiring significant cognitive effort?



Functionality

If this product requires continual use to deliver benefits, how much effort does each use require?

How can this be decreased?



Functionality

Is this product meant as a daily usage tool?

If so, to what extent do benefits surpass required effort?



Functionality

How useful for your user is the information presented?

What actual user problem does this information solve?



Functionality

Does the system offer explicit actionable information? If not, why not?

Could the user be better served by more processed data?



Functionality

If the system displays significant retrospective data, in what ways does this assist actual user needs?

If less data were visible by default, would the user still be able to complete their task?



Functionality

Are any extra elements such as sound effects?

Can they be customized or turned off if they are intrusive?

If they add essential information, are there alternate ways for the user to receive this information?



Functionality

Does the product assist with an actual user need?

What is this need?

How could it better meet this need?



Functionality

Can the system offer benefits with a glance from the user?

If not, why not?

Could it?



Functionality

If there are elements such as gamification, are they appropriate to the context of use?

How can this be verified?



Functionality

Does your device or systems allow the user to alter, adjust, or exchange components to meet their needs or preferences?

If not, how is this justified?



Functionality



Concerns

Emotional Impacts

Could this system or interface create feelings of stigma or vulnerability in specific situations? e.g. date, job interview, public space, etc.

How could it be made more sensitive?



Emotional Impacts

How does the interface display sensitive or undesired data?

Can it alert user to important situations, without creating undue stress?

Could this be improved?



Emotional Impacts

Are design element colors sensitive to the feelings of the user?

Has the use of alert colors like red been properly tested for emotional reaction from users?



Emotional Impacts

Are the design choices such as color, sounds, and interface motivating or demotivating?

How has this been tested in a way appropriate to intended usage?



Emotional Impacts

Have you adequately researched how the information or feedback you provide impacts your users emotionally?

What strategies do you have in place for delivering data in a way that minimizes undue stress?



Emotional Impacts



Concerns

Cognition

Does the interface help to activate or jog the users' existing knowledge?

If not, how could this be improved?



Cognition

If the system offers retrospective information, to what extent does such retrospection serve user needs?

Is this data always needed or just in specific cases?



Cognition

Could information presented give a false impression of actual data? (For example, graphs that draw lines between data points, or averages that conceal deviation.)



Cognition

If the user becomes confused by the system, what means are in place to help them understand it?



Cognition

Does the interface present all information needed for task simultaneously, e.g. a single screen?

Why not?

Could it be changed to allow this to happen?



Cognition

How much effort is required for the user to interpret the interface?

Could the complexity be reduced without impairing essential functions?



Cognition

In what ways does this interface help the user to question the habitual behaviors they do that might not be helpful?



Cognition

Could this product add to confusion or delays in critical situations, such as with complicated interfaces, distracting, or overly engaging interfaces?

If so, how is this risk justified?



Cognition

Could users become unnecessarily dependent on this product for decisions?

Would it be possible for this product to help the user to learn to not depend on it for decision making?



Cognition

Does this product support in-the-moment decisions without undue effort?



Cognition

Does this product help users to correct and adjust their decisions according to specific contextual need?



Cognition

Does this product help users to access knowledge they already possess in a fluid and flexible manner?

How could it do so?



Cognition

Do interface elements assist users in predicting the result of following the advice?

If not, could such functionality be integrated?



Cognition

Does this product assist users in recognizing problems or unusual events?

How does it assist them in understanding what is the problem?

How could it do this?



Cognition

How does this product help users to question, explore, and test their assumptions?

Could this process be better supported?



Cognition

In what ways does this product help users to identify and make sense of patterns?

How could such functionality be included?



Cognition

In what ways does this product help users to form new ideas about how best to manage challenging situations?



Cognition



Concerns

Privacy & Security

Which aspects of the system are you most concerned about?

What would you change if you could?



Privacy & Security

Does the proposed system have a system of consent which helps the user to easily control who, when, and for what purpose each of their different data will be used?

If not, how do you justify this?

How could such measures be implemented?



Privacy & Security



Concerns

Privacy & Security

Does your business model involve using individual's personal data for targeted marketing or use by 3rd parties?

If so, how do you protect the user from any harms that may result?



Privacy & Security

Is the information collected by your system visible to any stakeholder other than the primary user? If so, how do you:

Enable user to pause monitoring in sensitive contexts?

Allow user to control which and how data is shared?



Privacy & Security

Does your product provide user data to medical personal? If so:

- what controls does the user have to manage when and which data is visible?
- could such controls be modified quickly during an appointment to allow re-view of specific data?



Privacy & Security

Does your product or service make use of GPS data?

If so, in which ways do you protect the user from:

- identification
- linking with medical data
- vulnerability

How could the user be better protected?



Privacy & Security

How transparent is the ways in which the user's data is:

- being used?
- who has access?

How could you better inform the user?



Privacy & Security

Why should the user trust your product?

What assurances can you promise?

How can you guarantee they will be followed?



Privacy & Security

How much personal information is collected from the user?

Is there an imbalance in data collected and data received?

Is this data only being used to serve the user, or are there other purposes?



Privacy & Security

Are there any stakeholders that the user is unaware of?

Are they receiving any data, anonymized or otherwise?

Do you think the user would be less likely to use this product if they were aware of this?



Privacy & Security

Do you consider the patient the primary stakeholder?

If not, how is this justified?



Privacy & Security



Concerns

Behavior & Action

Can the interface help users to react quickly in crucial situations?

If so, in what ways could the system assist in the user becoming more independent?



Behavior & Action

Does the system try to enforce a structure on the user, such as a set daily time schedule?

If so, how is this justified?

Can it be easily customized?



Behavior & Action

Does this product help users to act quickly in critical situations?

How could it better assist in such instances?



Behavior & Action

Could this product interfere with the user engaging in necessary actions?

If so, how is this justified?



Behavior & Action



Concerns

C-38

Smartphone



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Devices

Dev-01

Smartwatch



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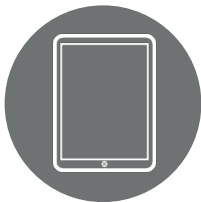
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Pad



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Devices

Dev-03

Laptop



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Cloud Computing



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Devices

Dev-05

Cloud Service



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Devices

Dev-06

Cloud Documents



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Devices

Dev-07

Cloud



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IoT Health Device



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Devices

Dev-09

Health Device



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Devices

Dev-10

IoT Health Device



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Devices

Dev-11

Network Data Base



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Devices

Dev-12

Desktop Computer



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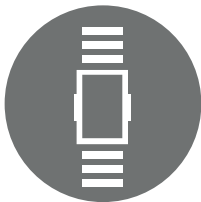
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Fitness Band



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LAN Network



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Networked Drive



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Local Drive



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Devices

Dev-17

Server Farm



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IoT medical device



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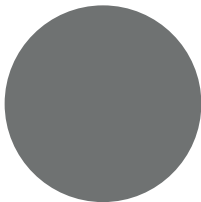
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Medical Service



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Health Coaching



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Clinical Support



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Services

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Education



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Remote Monitoring



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Services

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Diagnosis



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Medical Evaluation



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Analytics



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Big Data Analytics



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Services

Ser-09

Peer Support



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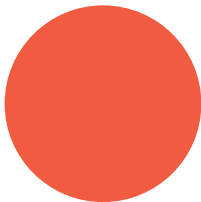
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Services

Ser-10



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Services

Ser-__

Patient



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Stakeholder

SH-01

Family



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Stakeholder

SH-02

Friend



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Stakeholder

SH-03

Parent



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Stakeholder

SH-04

Co-Worker



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Stakeholder

SH-05

Medical Worker



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Stakeholder

SH-06

Startup



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Health Insurer



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Tech Company



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Care Provider



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Corporation



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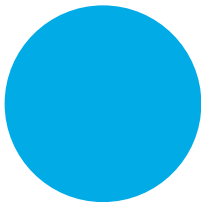
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Company

Com-__

Data

Exercise

Step counts

Blood glucose

Behaviors

Locations

GPS

Insights

Records

Advice

Sleep

Goals

Peer support

Financial

Alerts

Encryption

Ads

Goals

Habit Change
Social Interaction
Stress Reduction
More Exercise
Save Times
Coping
Emotional Support
Sell Product
Maximize Profit
Collect Data
Sell Service
Improve Health
Improve Diet
Improve Biomarker
Reduce Risk
Earn Money

Actions

Analyze Data

Change Goal

Exercise

Eat/Drink

Sleep

Pressure

Encourage

Comment

Collect Data

Invite

Adapt Algorithm

Reflect

Exercise

Sense

Read

Control

Traits

Health Condition

Proprietary

Secure

Vulnerable

Gender

Cognitive Disability
illness

Learning disability

Physical disability

Emotions

Fear

Anger

Sadness

Joy

Disgust

Surprise

Trust

Anticipation

Suspicion

Shame

Envy

Love

Worry

Concern

Vulnerability

Stress

Responsibilities

Financial
Emotional
Familial
Professional
Social
Monitoring
Household
Maintenance
Management
Recording
Coordination

Sensors

GPS

Fingerprint

Barometer

Three-axis gyro

Accelerometer

Proximity

Ambient light

Camera

Compass

Altimeter

Heart rate

Gyroscope

Ambient light

WiFi/ LTE

