MediSense

Brought to you by MediSense.net
Phil Duncan
04/2000
MediSense.Net rev.1

A solution for maintaining good health, the MediSense family of tools provides affordable, lightweight, easy to use micro-appliances. MediSense tools communicate with a wide range of mobile devices, making it a convenient way to measure the human body's vital signs. Metrics are stored for easily customizable reports. Remote measurements using MediSense.Net empowers doctors to affordably expand medical care.

Scope

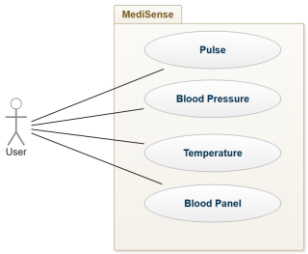
The MediSense family of tools provides a way for individuals to measure vital signs anywhere they can use their mobile device. Measurements can be made regardless of network connections. Metrics made while not connected are safely stored on the device for later. This iteration of the project will deliver a way to measure pulse, blood pressure, temperature, and blood oxygen levels.

In this iteration of the project the ability to monitor is limited to temperature, pulse, blood pressure, and blood oxygen levels. In future phases, the range of tests will expand. The kit will eventually include an easy to use timer to organize testing times, and synchronize groups of sets. The MediSense.Net is still listing providers, so if you want to be part of helping develop this remote community health support system, please send a letter of interest.

Project Details

[User stories go here. They should at very least include the annotations that describe the activities and events in your Use Case Scenarios.]

Use Case Scenario



1. Check Pulse – then we type as much as we need ab out this activity on the highest level
2. Check Blood

Each Use Case represents a functional unit of hardware that the user uses to check their vital signs

List of Steps

1. Establish a Bluetooth Connection with the tool* set
2. Launch the app
   - 2.1 Establish a secure network connection to the remote server
   - 2.2 Interface
     - 2.2.1 Design Layout
       - 2.2.1.1 Launch Screen
     - 2.2.2 Designing the Splash Screen Sequence
       - 2.2.2.1 Initial Launch
       - 2.2.2.2 ..
3. Select Tool
4. Use Tool
   - 4.1 Launch tool
   - 4.2 Measure with the tool
     - 4.2.1 Initialize tool
     - 4.2.2 Running measurement
     - 4.2.3 Post Measurement processing
       - 4.2.3.1 Save metrics to a local file for temporary storage (delete temp file after use)
       - 4.2.3.2
   - 4.3 Next Options
     - 4.3.1 Measure Again
     - 4.3.2 Compare with past measurements
     - 4.3.3 Send to server(s)
     - 4.3.4 Use a different tool
   - 4.4 End Measurement session
     - 4.4.1 Copy metric from the local temporary file to permanent storage (delet temp file after use)
     - 4.4.2
   - 4.5 Close tool
5. Close app

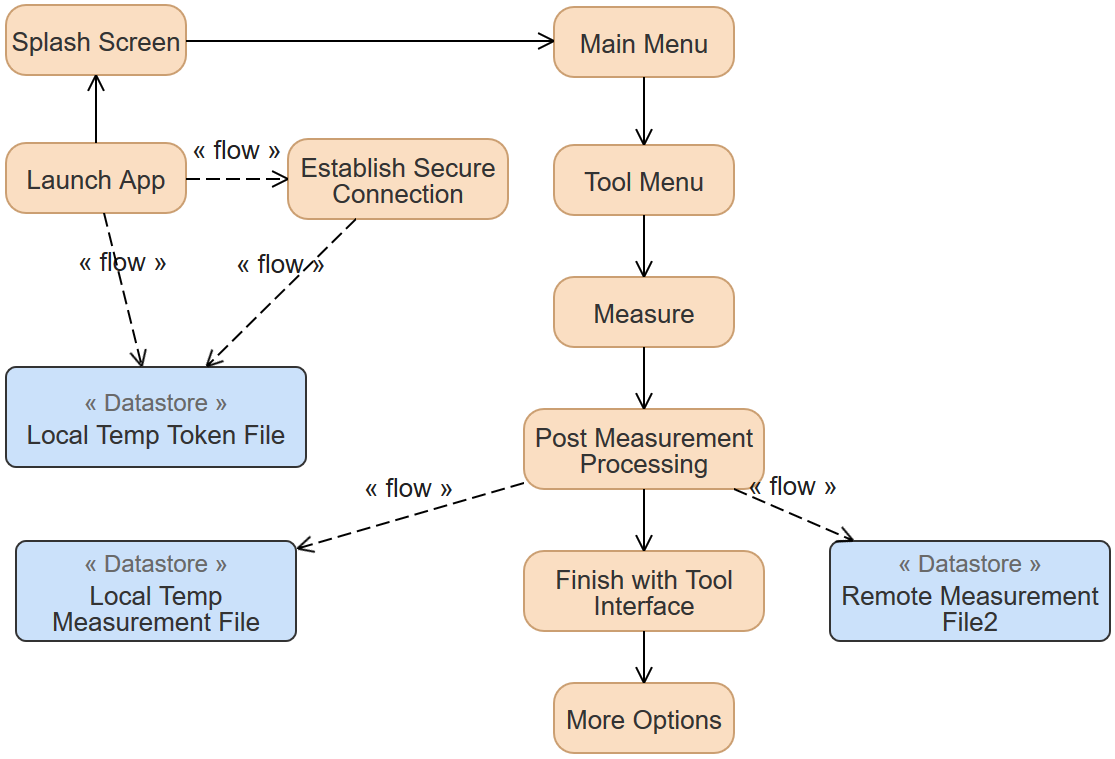
*Tool is used to refer to the hardware peripheral sensor that is attached to the user's body to make measurements.

Tests

ID	System Requirements	ID	Test
1	Establish a Bluetooth Connection with the tool* set	1	Successful connection
2	Launch the app	2	Ensure that the app launches correctly
2.1	Establish secure NW conn to server(s)	2.1	Ensure successful NW conn to remote server(s)
2.2.1	Interface Layout	2.2.1	Ensure all layout elements are useable

			functional
2.2.2	Splash Screen Sequence	2.2.2	Ensure that sequence functions and each panel in the sequence is correct, and it ends with the Main Menu
2.2.3	Main Menu		Buttons to activate main tasks are present, correct and function properly
3	Select Tool	3	
4	Measure with tool	4	
4.1	Launch tool	4.1	
4.2	Make Measurement	4.2	

Activity Diagram



Class Diagrams

[Add yours here]

Sequence Diagrams

[Add yours here]

Notes:

Generic & Specific

Parallel Language

On your scenario diagram, be sure that all of the cases are connected to the actor. It's best to rename the actor as well. The few default values we leave in our drawings the more polished they seem to others. For your activity diagram, make sure that the use case names are also used in the activity flow. This ties the two drawings.. the two views of this system together. This is important to avoid reader confusion. Be sure to double check spelling. Sometimes they slip through spellcheck. (Lunch rather then Launch in your activity dia.

Another thing to look out for is making any one drawing try to say too much. If you have complex series of events and interactions happening, less detail in this, with subsequent drawings (for each activity on your menu).