Product Owner Questions

Below are the questions you all have submitted I bolded some of the ones that I believe would be good to ask. For me I am more concerned about the general system environment set up so I would ask the following:

**David**

1. There is no existing Smart house to control with our system, Will this SHAS Testbed system’s goal to be a pure simulation?
2. Is the simulation going to be a continuously run process( using a server) or will the Testbed emulate SHAS state so that time based simulations can be tested quickly? (For example run the SHAS system for 2 weeks with some SHAS settings in a single run)
3. There are several items that the SHAS system will control. Are there existing API/documentation/interfaces that we will use to set up the SHAS part of the system or are we to simulate those from scratch as well?

**Prabhakar**

1. In which Operating System do you want the Smart phone GUI to be built on?
2. About the usage reports for electricity and water, what is the time interval for which the reports have to be generated? (for eg., daily, monthly, hourly etc.)
3. Turing air conditioning or heater on/off frequently in short intervals might use up lot of energy. What is the minimum time gap before the HVAC can be switched on/off?
4. **What do you mean by energy conservation? (how do you define it? Some specifics)**

**Jason**

1. For different emergencies it says to call different departments, (police,fire) but those are all reachable by 911, are all of the emergencies supposed to just dial 911 or find the local establishment and call that?
2. **What defines energy efficiency? The maximum amount of energy savings would most likely to be to turn everything off, so is there some sort of optimization threshold that the owner needs to set? Otherwise it may be too hot or too cold depending on the season**
3. How does the house know when people move in and out of rooms? Do dogs count? Or children?
4. If the air conditioning is constantly turning on and off what if people are going in and out, is there a grace period that it doesn't turn on? In the event of people going in and out it would constantly be turning off and on
5. The smart power outlets, when managing power, how will it know if the device is one that needs to be turned off or not? Say someone wants to charge their phone but it turns off, will certain power outlets just not have the feature?

**Liu**

1. Please specify in what situation the lawn sprinkler should run.  What is the threshold level of precipitation?
2. Could you give us a schema about how to suggest customers the usage of energy or water to improve efficiency?  please specify.
3. What is the least value of the density of the natural gas or CO or smoke that can activate the detector?
4. What is the least value of the strength of sunlight outside that SHAS will turn on light.

**Akshay**

1. **What should be the frequency of generating reports(water/electricity)?**
2. How should the occupants be informed about the security breach?
3. Will Sprinkler system use weather forecast?
4. Do we need to control this system remotely?
5. Will there be an option to cancel the police or fire dept call?
6. Will there be an option in this system to turn off/on the functionality according to customer requirements??

Our Questions:

1. There is no existing Smart house to control with our system, Will this SHAS Testbed system’s goal to be a pure simulation? **(Event driven simulation not trying to capture real time)**
2. There are several items that the SHAS system will control. Is there existing API/documentation/interfaces that we will use to set up the SHAS part of the system or are we to simulate those from scratch as well? **Make them up as we go might get specific during the further sprints**
3. What defines energy efficiency? The maximum amount of energy savings would most likely to be to turn everything off, so is there some sort of optimization threshold that the owner needs to set? Otherwise it may be too hot or too cold depending on the season **(doesn’t know got lowered priority)**
4. In which type of environment should the Smart phone GUI and web page be built on? **Doesn’t care**
5. Could you give us a schema about how to suggest customers the usage of energy or water to improve efficiency? **Doesn’t know got lower priority**
6. Do we need to control this system remotely? **Yes**

Other Team’s questions

1. Threshold values? After some amount of water/electricity flow you should shutdown the supply for each appliance based on manufacturer specification (if not specified then fake it)
2. Do we need a Help feature or user guide/tutorial/tool tips? Yes
   1. Priority (on all features)
      1. Tool tip
      2. Tutorial
      3. User manual
3. Reports (electricity and water): Usage Reports (Histogram)
   1. Frequency Histogram
      1. For electric x-axis:
         1. Hourly – for day
         2. Monthly - yearly
      2. For Water x-axis:
         1. Hourly – for day
         2. Monthly – yearly
4. Sensors on every outlet and light to determine if an appliance is malfunction (low priority)
5. Access Control: Multiple users with multiple capabilities (low priority)
6. Separate sensors for CO, gas and fire? = all separate and multiple instances of each sensor
7. Does the system need did not hear anything
8. How does the system suggest energy efficiency? No idea – common sense
9. Wasted question -sensors
10. Wasted question –sensors
11. No specific on protocols and conventions with communications we can make them up no hardware
12. Wasted question – user interface
13. Platform for smart phone – android and iphone (priority iphone)
14. Calling fire dept. and police from web – option to send message to all users web browser and phone with 90 seconds to decide to cancel call to the fire dept. and police (some type of password associated to cancel)
15. Store data about house for 1 year
16. Device collaboration – lower priority new user story
17. Turn off automation manually
18. Register users and deregister users (only homeowner (root))

**Police from 5 to 2 priority**

Web GUI(support multiple web browser) and logging

Split only one web browser(IE 8)

Logging only one user( no access control)

Security

Sprinklers Controls