

## Group Project Part 5

Joe Rickard, Linyi Yao, Nhan Nguyen

Study Session #1, Tuesday, 11/27/2018 at C4C, 11:30 am

Study participant info: Zhao JH – Computer Science major student, sophomore

Study conducted by: Nhan Nguyen (Prototype A then B)

Observations from Prototype A: The participant seems confuse at all the modes at first, but he can understand some of the sounds level from the meter. He switched to other function to adjust the settings to his need. No confusion or mistake.

Observation from Prototype B: The participant is confused at what the Lamp from the home page were, but he understood when he switched to the Bluetooth page. Nothing more after that

Participant feedback: He recommended adding some information tab to explain what intensity of each level from the sound meter and some color to make it more vibrant. He also recommended a calendar setting in the time function to adjust in specific days.

Study Session #2, Sunday, 12/2/2018 at home, 14:00 pm

Study participant info: Yu wq – Major in civil engineering, in junior year

The study conducted by Linyi Yao (Prototype B then A)

Observations from Prototype B: The participation just chooses the random one because she doesn't know what will do for the next step, and don't why she have to choose these options. But after homepage, she knows what is happening, she figures out every quick how to use this App. But she still confusing about vibration this option, she doesn't know what will vibrate.

Observation from Prototype A: The participation first confused about the homepage, she thought that the level of DB the sounds will play from her phone, rather than knows that the level of DB is to notice her if her voice is over than the level DB the App will remind her. But after the homepage, she thinks the App works very well.

Participant feedback: For the first prototype, the participant suggested that we can combine the homepage with the time page because she said these two pages base work the same, we can just add the play sound button to the home page. For the second prototype, she suggested that we can add some

information tab on the homepage because the homepage is not clear enough, the user might not understand why they have to choose those options. She likes the first prototype better.

Study Session #3, Saturday, 12/02/2018 at Home, 12:30 pm

Study participant info: Noah S – Computer Science Graduate

Study conducted by Joe Rickard (Prototype A then B)

Observations from Prototype A: Noah was confused by the homepage as it related to the scheduled thresholds. He also was confused by the DB slider not being a direct control, but a setting of when he would be alerted. He had no issues with the new bluetooth connections page, but did seem uncertain of how to set global settings on the preferences page rather than individually to each device.

Observation from Prototype B: Noah liked that the signal settings were the first page, as they are the most interesting to the user. He expressed desire to be able to easily change how the system interacted with him. He still found the decibel slider to be clunky.

Participant feedback: Noah recommended that we change the labelling on the decibel slider, and that we add a global settings option to the signal settings on the homepage. This would make useage less tedious for users with a lot of connected devices.

## Usability Aspect Report Template

From Shaun Kane, based on UAR Template from Brad A. Myers and Bonnie John  
<http://www.cs.cmu.edu/~bam/uicourse/UARTemplate.doc>

Complete this form *for each* problem or good aspect that you observe.

<b>UAR #: 1</b>	<b>Problem/Good: Good</b>	<b>Rated by:</b> Nhan N
<b>Name: Prototype A</b>		
<b>Relevant heuristic:</b> Visibility of system status		
<b>Steps to reproduce:</b>  Tap through or slide all the settings of the app.		
<b>Detailed explanation:</b>  Every change can be noticed through the changing color of icon or the position of the slider, can always know what is going on.		

<b>Possible solution:</b>	
<b>Severity (low, medium, high, critical):</b>	<b>See also:</b>

<b>UAR #: 2</b>	<b>Problem/Good: Problem</b>	<b>Rated by: Nhan N</b>
<b>Name: Prototype B</b>		
<b>Relevant heuristic:</b> Aesthetic and minimalist design		
<b>Steps to reproduce:</b>		
The setting of the time function		
<b>Detailed explanation:</b>		
Can merge between daytime and nighttime for consistency.		
<b>Possible solution:</b>		
Merge the two and add an on/off button of day and night		
<b>Severity (low, medium, high, critical): low</b>	<b>See also:</b>	

<b>UAR #: 3</b>	<b>Problem/Good: Good</b>	<b>Rated by: Nhan N</b>
<b>Name: Prototype A</b>		
<b>Relevant heuristic:</b> Match between system and the real world		
<b>Steps to reproduce:</b>		
Look through all the terms of the app		
<b>Detailed explanation:</b>		
All the terms are self-explained, natural.		
<b>Possible solution:</b>		
<b>Severity (low, medium, high, critical):</b>	<b>See also:</b>	

<b>UAR #: 4</b>	<b>Problem/Good: Good</b>	<b>Rated by: Nhan N</b>
<b>Name: Prototype A</b>		
<b>Relevant heuristic:</b> User control and freedom		
<b>Steps to reproduce:</b>		
Make changes in the apps and save		

**Detailed explanation:**

Every setting can be saved so whenever an unwanted change is made, can switch tab to reverse.

**Possible solution:****Severity (low, medium, high, critical):****See also:****UAR #: 5****Problem/Good: Problem****Rated by:** Nhan N**Name: Prototype B****Relevant heuristic:** User control and freedom**Steps to reproduce:**

Make changes in the apps

**Detailed explanation:**

The function is self-explained and should save whenever change is made, no need for a save function

**Possible solution:**

Remove the save option, enable automatic saving

**Severity (low, medium, high, critical): low****See also:****UAR #: 6****Problem/Good: Problem****Rated by:** Linyi Y**Name:****Prototype A****Relevant heuristic:****Help and documentation****Steps to reproduce:**

On the homepage trying to slide to set the DB level, just slide to random level.

**Detailed explanation:**

When the user sliding between these level, user doesn't know what are the levels for.

**Possible solution:**

We can add information tab, and user will know why they have to choose these levels and how to choose these levels.

**Severity (low, medium, high, critical):**  
medium**See also:**

<b>UAR #: 7</b>	<b>Problem/Good: Good</b>	<b>Rated by: Linyi Y</b>
<b>Name:</b> <b>Prototype B</b>		
<b>Relevant heuristic:</b> <b>Match between system and the real world</b>		
<b>Steps to reproduce:</b> <b>Check every step to set up this App.</b>		
<b>Detailed explanation:</b> <b>The user understand how to set and every worlds and icons on the App.</b>		
<b>Possible solution:</b>		
<b>Severity (low, medium, high, critical):</b>	<b>See also:</b>	

<b>UAR #: 8</b>	<b>Problem/Good: Problem</b>	<b>Rated by: Linyi Y</b>
<b>Name:</b> <b>Prototype A</b>		
<b>Relevant heuristic:</b> <b>User control and freedom</b>		
<b>Steps to reproduce:</b> <b>The user are trying to set up DB on the time page, and set up the wrong DB.</b>		
<b>Detailed explanation:</b> <b>On the time setting page, the App doesn't have clear or reset button, when the user set the wrong thing, can't go back.</b>		
<b>Possible solution:</b> <b>Add the reset or clear button.</b>		
<b>Severity (low, medium, high, critical):</b> <b>high</b>	<b>See also:</b>	

<b>UAR #: 9</b>	<b>Problem/Good: Good</b>	<b>Rated by: Linyi Y</b>
<b>Name:</b> <b>Prototype A</b>		
<b>Relevant heuristic:</b> <b>Visibility of system status</b>		
<b>Steps to reproduce:</b> <b>On the homepage, the user set the DB level, and the time page set up, also the Bluetooth and the setting page.</b>		

<b>Detailed explanation:</b> After the users set, the user will know what they did can see the App's status.		
<b>Possible solution:</b>		
<b>Severity (low, medium, high, critical):</b> critical	<b>See also:</b>	
<b>UAR #: 10</b>	<b>Problem/Good: Good</b>	<b>Rated by: Linyi Y</b>
<b>Name:</b> Prototype A		
<b>Relevant heuristic:</b> Aesthetic and minimalist design		
<b>Steps to reproduce:</b>  The user goes through every step to set up the App.		
<b>Detailed explanation:</b> There is no useless option, the users used every option.		
<b>Possible solution:</b>		
<b>Severity (low, medium, high, critical):</b>	<b>See also:</b>	
<b>UAR #: 11</b>	<b>Problem/Good: Problem</b>	<b>Rated by: Joe R</b>
<b>Name: Prototype 1</b>		
<b>Relevant heuristic: User control and freedom</b>		
<b>Steps to reproduce: Open app with common desire to change signal type.</b>		
<b>Detailed explanation:</b> The user felt that the homepage was used for a control that is not important, and that the signal type should have been more prominent and not another menu click away.		

<b>Possible solution: Re-organization of app pages</b>	
<b>Severity (low, medium, high, critical):</b> medium	<b>See also:</b>

<b>UAR #: 12</b>	<b>Problem/Good: Problem</b>	<b>Rated by: Joe R</b>
<b>Name: Prototype B</b>		
<b>Relevant heuristic:</b> User control and freedom		
<b>Steps to reproduce:</b> Try to set the decibel threshold for the present.		
<b>Detailed explanation:</b>  The user attempted to set a new decibel threshold for present time but was confused as to whether they should have set the scheduled threshold they were currently in, or the slider. Did not know how long the slider would persist, as it was below the scheduled level.		
<b>Possible solution:</b>  Have a clear documentation as to the precedence of the two threshold controls.		
<b>Severity (low, medium, high, critical):</b> high	<b>See also:</b>	

<b>UAR #: 13</b>	<b>Problem/Good: Good</b>	<b>Rated by: Joe R</b>
<b>Name: Prototype B</b>		
<b>Relevant heuristic:</b> User control and freedom		
<b>Steps to reproduce:</b>  Open the app to change signal type		
<b>Detailed explanation:</b>  The signal types are now the homepage, allowing for very easy access.		
<b>Possible solution:</b>  This is a good aspect of the design that Noah observed in Prototype 2. It does not require a solution.		
<b>Severity (low, medium, high, critical):</b> low	<b>See also:</b>	

<b>UAR #: 14</b>	<b>Problem/Good: Problem</b>	<b>Rated by: Joe R</b>
<b>Name: Prototype A</b>		
<b>Relevant heuristic:</b> User control and freedom		

**Steps to reproduce:**

Attempt to change the signal type for a large number of devices.

**Detailed explanation:**

User attempted to change the signals to be consistent across all devices, but found this tedious

**Possible solution:**

Add a slider for global settings or individual settings.

**Severity (low, medium, high, critical):**

low

**See also:**

**UAR #: 15**

**Problem/Good: Good**

**Rated by:** Joe R

**Name: Prototype B**

**Relevant heuristic:** User control and freedom

**Steps to reproduce:**

See connected devices or add new connected device

**Detailed explanation:**

The bluetooth menu is consistent with the user's expectation and was easy to use.

**Possible solution:**

This is a good observation about the app, it does not require a solution.

**Severity (low, medium, high, critical):**

**See also:**

Prototype 1 can be found at <https://www.figma.com/proto/VZyBhxEIzjmjOzEdFEL1XILN/prototype-A?node-id=41%3A50&scaling=scale-down&redirected=1>

Prototype 2 can be found at <https://www.figma.com/proto/PhkxMiMQMM5cOLErxQZzzKkl/prototype-B?node-id=4%3A296&scaling=min-zoom&redirected=1>