TALKBOX SOFTWARE

TESTING DOCUMENT

Version <vF>

GROUP 8

THANH HUYNH, ANAS ISHTIAQUE, LINWEI WANG

2019.04.03

Testing Document

I. <u>Configurator Testing:</u>

1. <u>Creating 1 button:</u>
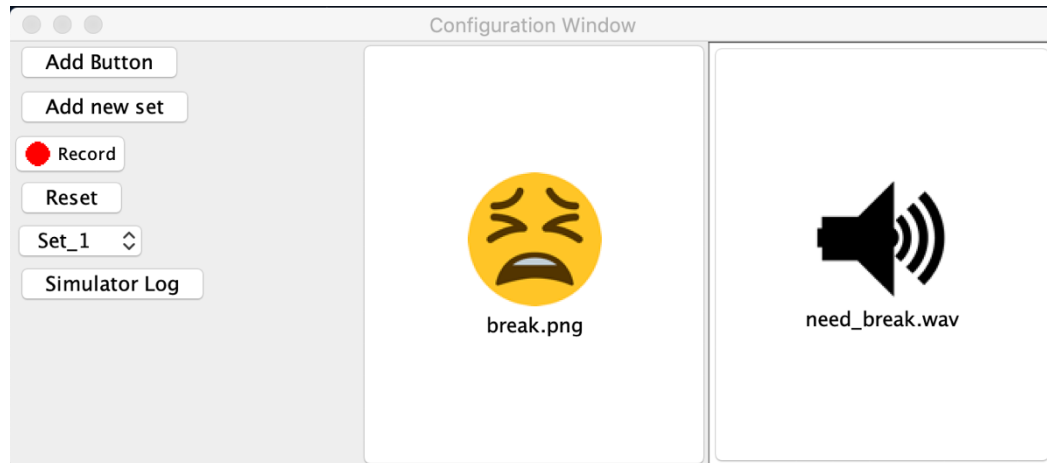
   • Testing process:

   a) Run the Configurator App. The configuration window is open as follow:
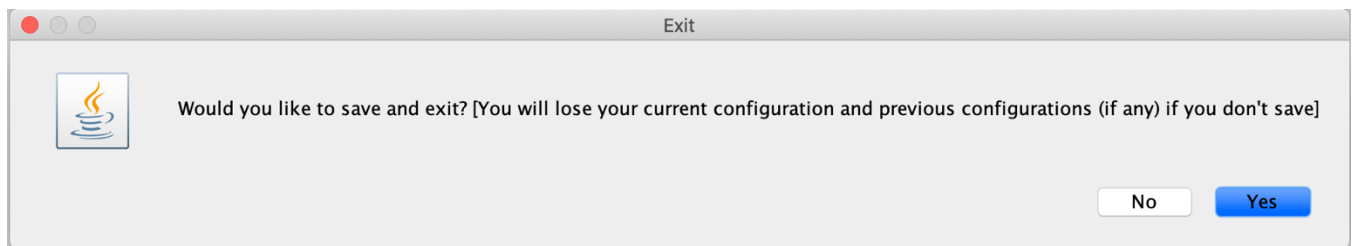

   b) User will then click the "Add" button to create the first button for the Simulator.

   c) Then, the user can drag the image and the sound to the given spot accordingly.

d) Finally, user can click yes to save the configuration when exiting the

Configuration Window

2. <u>Creating 5 buttons:</u>

- Testing Process:

   a) Run the Configurator App. The configuration window is open as follow:

   b) User will then click the "Add" button to create the first button for the Simulator.

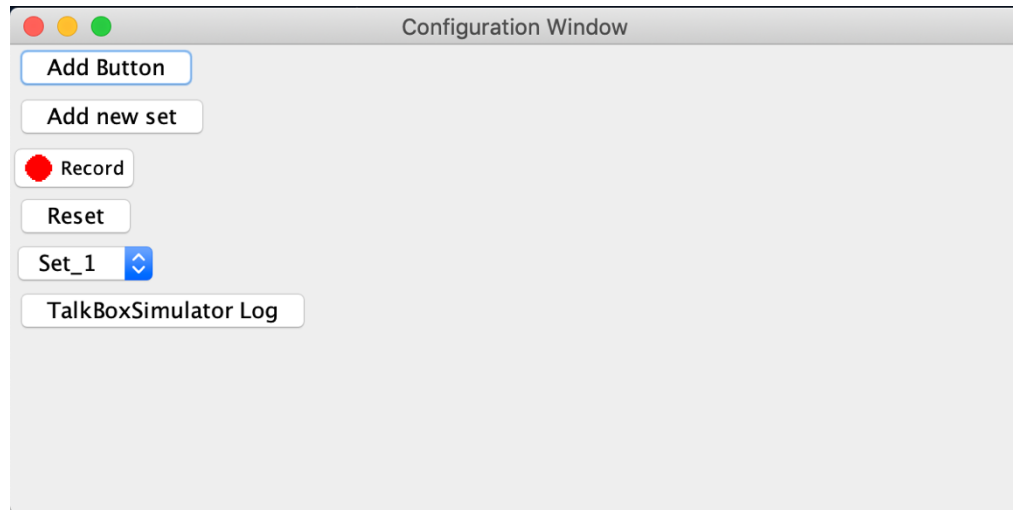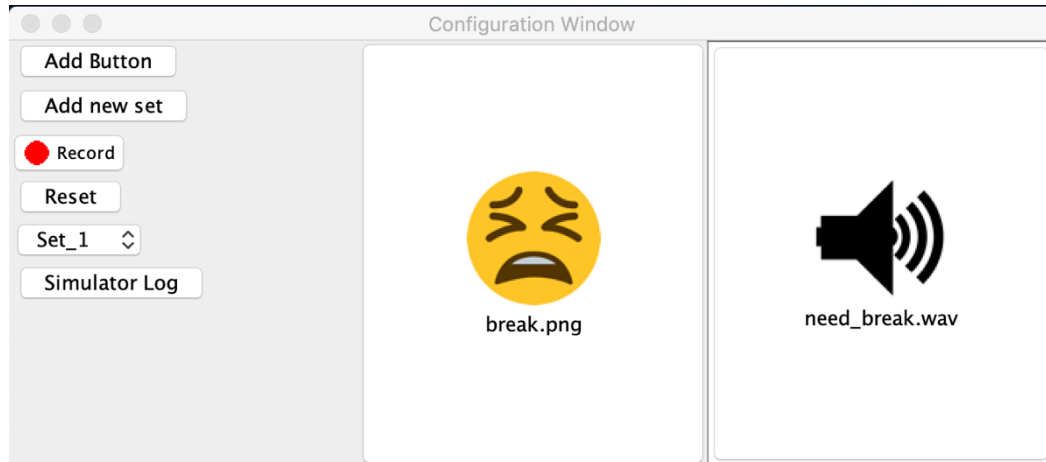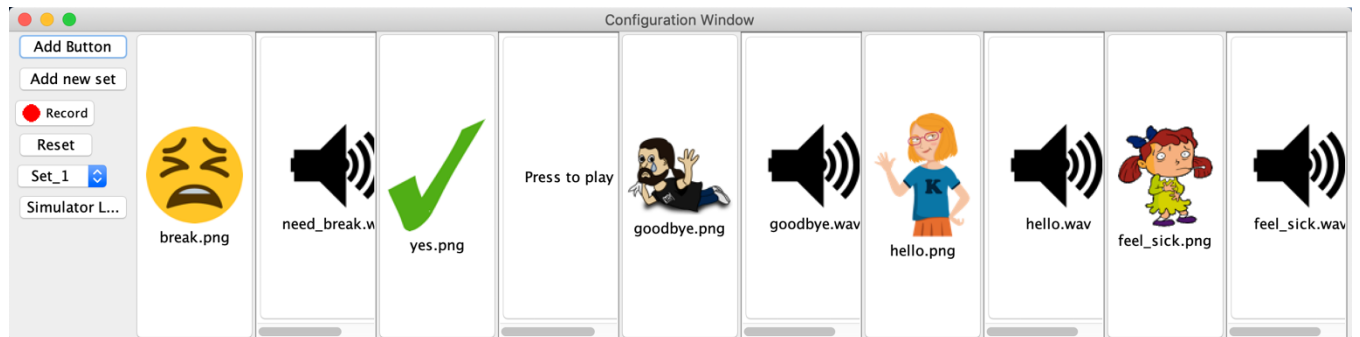c) Then, the user can drag the image and the sound to the given spot accordingly.
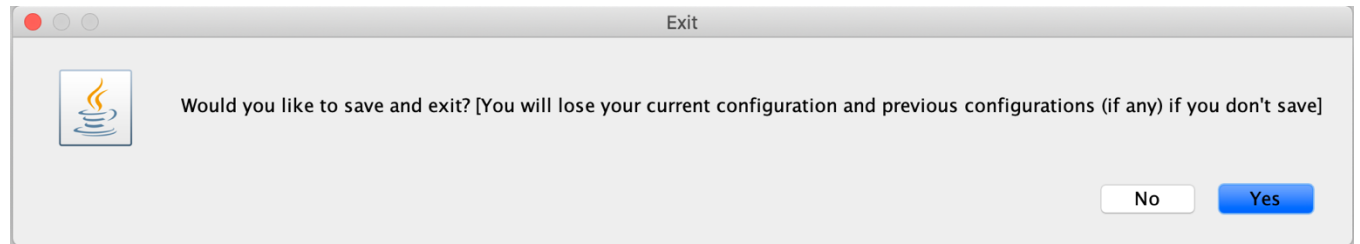

d) User will then click the "Add" button to create the next button. This process is

repeated for the next 4 buttons.

- Note that the second button is created using drag and drop image and sound is

recorded instead of drag and drop.

e) Finally, user can save the configuration by clicking 'Yes' button when closing the

Configuration Window

3. Invalid Image and Sound Format:

This test case is designed to determined how the Configuration App will behave with

invalid type of image and sound format. When trying to drag and drop invalid such types,

the Configurator will deny them and such files won't be added and shown in the
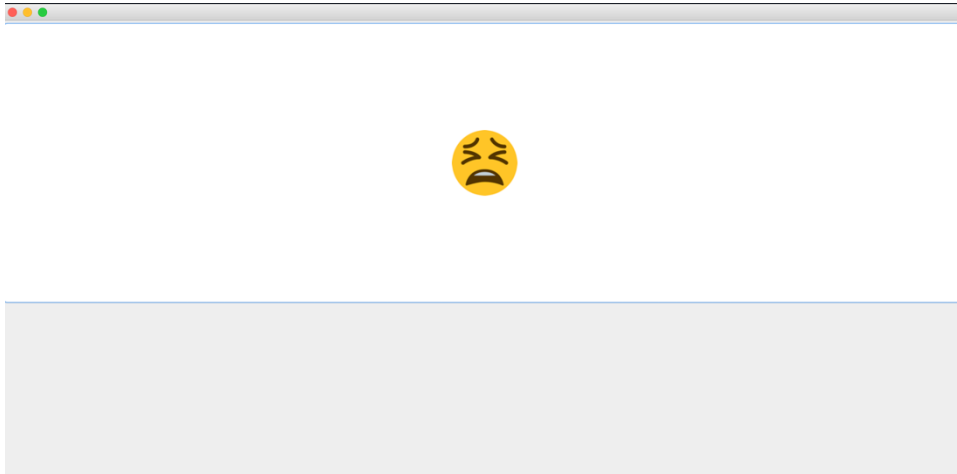
configurator.

4. Test Coverage:

▶ 📂 src		51.1 %	1,928	1,847	3,775
▼ 📂 TalkBox		51.1 %	1,928	1,847	3,775
▼ 🗂 src		51.1 %	1,928	1,847	3,775
▼ 🔳 (default package)		51.1 %	1,928	1,847	3,775
▶ 📄 TalkBoxConfigurator.java		58.5 %	1,061	752	1,813
▶ 📄 FileDrop.java		35.7 %	309	556	865
▶ 📄 TalkBoxSimulator.java		0.0 %	0	401	401
▶ 📄 TBCLog.java		0.0 %	0	107	107
▶ 📄 ConfiguratorController.java		94.3 %	430	26	456
▶ 📄 SoundRecordingUtil.java		96.2 %	128	5	133

Coverage was found to be 94.3% for the Configurator Testing. This due to the testing

only covers the specific and main functions of the Configurator and there are also

missing scenarios and features that are needed to tested.
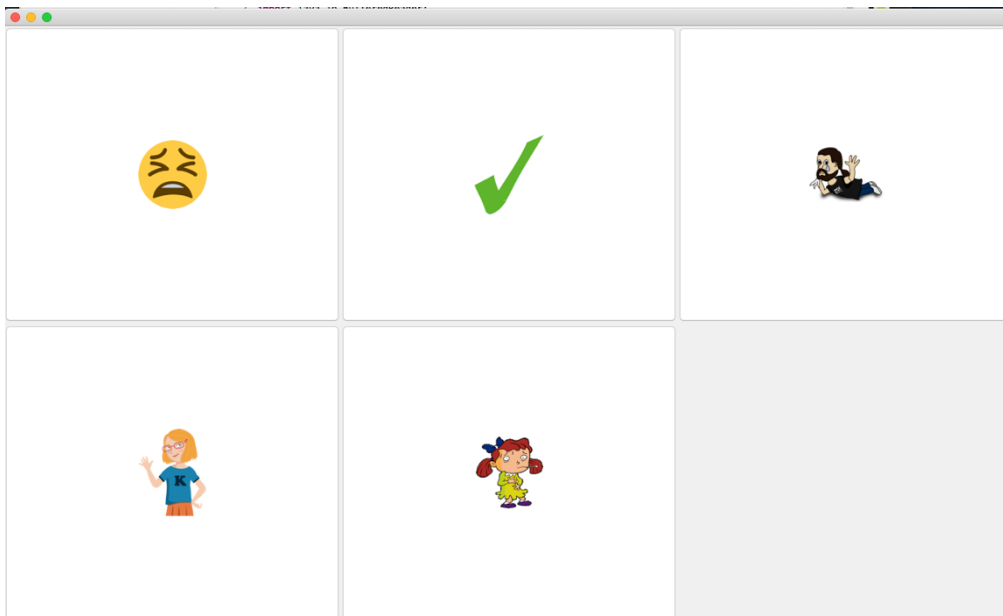
II.   Simulator Testing:

1. Creating 1 button:

    After using the Configurator to generate the button. It will then be stored in the simulator.

    The created button will have the image and sound according to the image and sound

    given in the Configurator.

2. Creating 5 buttons:

    The created buttons will have the image and sound according to the image and sound

    given in the Configurator.

3. Test Coverage:

Element	Coverage	Covered Instructions	Missed Instructions ∨	Total Instructions
▶ 📁 src	9.1 %	342	3,433	3,775
▼ 📁 TalkBox	9.1 %	342	3,433	3,775
▼ 📁 src	9.1 %	342	3,433	3,775
▼ ⊞ (default package)	9.1 %	342	3,433	3,775
▶ 🗾 TalkBoxConfigurator.java	0.0 %	0	1,813	1,813
▶ 🗾 FileDrop.java	0.0 %	0	865	865
▶ 🗾 ConfiguratorController.java	0.0 %	0	456	456
▶ 🗾 SoundRecordingUtil.java	0.0 %	0	133	133
▶ 🗾 TBCLog.java	0.0 %	0	107	107
▶ 🗾 TalkBoxSimulator.java	85.3 %	342	59	401

Coverage was found to be 85.3% for the Simulator Testing. This due to the testing only

covers the specific and main functions of the Simulator and there are also missing

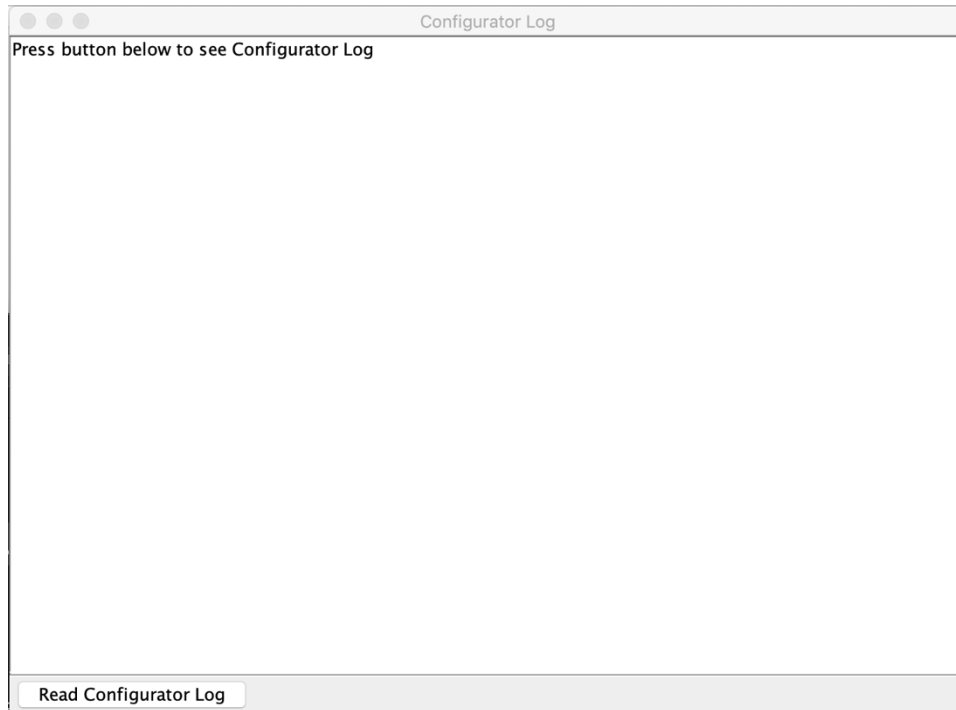scenarios and features that are needed to tested.

III. TBCLog Testing:

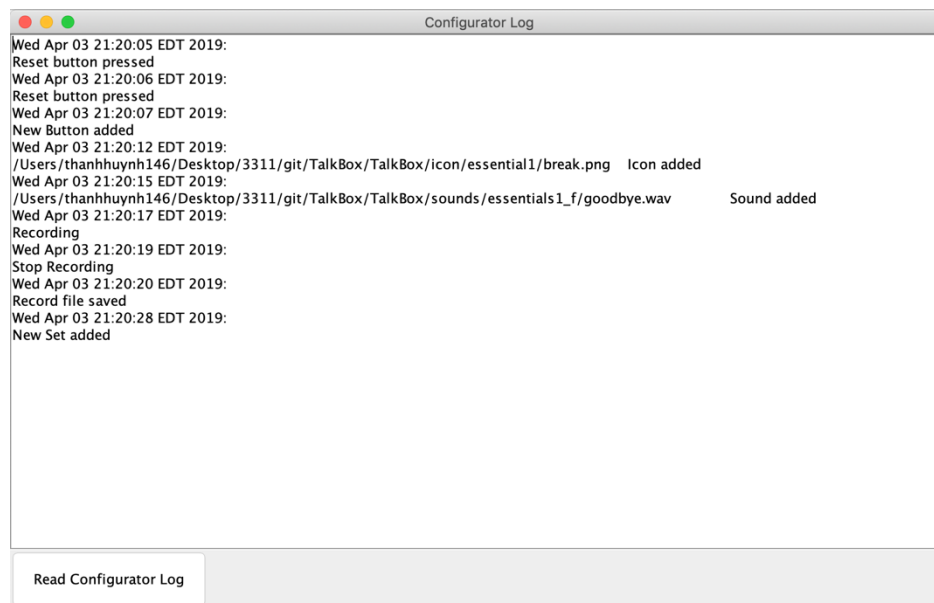1. Did multiple actions in the configurator including:

- Press the 'Reset' button

- Press the 'Reset' button

- Press the 'Add new Button' button

- Drag and drop image for first button

- Drag and drop sound for first button

- Press the 'Record' button

- Stop the recording

- Close the Configuration Window

2. Open the TBCLog App:

- Click on 'Read Configurator Log' to display the log:

We can see that the log displays correctly the action just performed in the

Configuration Window.

3. Test Coverage:

Element		Coverage	Covered Instructions	Missed Instructions ⌄	Total Instructions
▶ 📂 src		2.7 %	103	3,672	3,775
▼ 📂 TalkBox		2.7 %	103	3,672	3,775
▼ 🗂 src		2.7 %	103	3,672	3,775
▼ ⊞ (default package)		2.7 %	103	3,672	3,775
▶ 🗋 TalkBoxConfigurator.java		0.0 %	0	1,813	1,813
▶ 🗋 FileDrop.java		0.0 %	0	865	865
▶ 🗋 ConfiguratorController.java		0.0 %	0	456	456
▶ 🗋 TalkBoxSimulator.java		0.0 %	0	401	401
▶ 🗋 SoundRecordingUtil.java		0.0 %	0	133	133
▶ 🗋 TBCLog.java		96.3 %	103	4	107