TALKBOX

USER MANUAL



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8. **Introduction**

The purpose of this application is to virtually stimulate a TalkBox that will later be simulated on Raspberry Pie. The software in general will aid in communication for the users, who currently struggle with it due to the medical reasons. The overall layout is interactive and easy to use.

The software consists of two applications:

1. TalkBox Simulator
2. TalkBox Configuration

The configuration will provide the users with a GUI App environment and show different functionalities available.

The Simulator will provide the users with buttons (that they will have a freedom to create) that can be used to aid communication.

* 1. **Functionality**

The software provides the user with much more functionalities than a usual Sound Generating Device (SGD). Some of them are as follows:

* Choosing the number of buttons for your screen
* Making a profile
* Using Pre-recordings
* Record your personal audio/sound
* Adding recordings to the buttons
* Adding buttons to your profile
* Launching your profile, with named buttons

3.0 System Requirement

This software will operate on a desktop/laptop device. It will require a supporting Operating System (OS). Moreover, it will also require JRE 8 and higher versions. The basic use of the software will not require an internet connection, but accessing documentation might require a stable internet connection.

The hardware required will be a microphone to allow personal recordings. Also as this software is computer based and there is no hardware buttons the user will need a mouse to interact with the system.

4.0 How to get started:

\*Preferred but optional steps

4.1 Download as a JAR

1. Create a directory to hold the JAR files

2. Go to https://github.com/neharikapurieng/TalkBox

3. Click, download the JAR

4. Save jar to the directory made

4. Go to saved location and extract TalkBoxConfigurator.(It should extract to new folder called TalkBoxConfigurator).

Method 1. Double Click

5. Double Click the TalkBoxConfigurator JAR file to run

6. After the preferred configuration is made, click launch

7. Simulator app will launch

8. Double click the TalkBoxSim to launch simulator at any time

If unable to open, refer to Method 2 or refer to section 7 for help

Method 2. Run using commands

5. Open command Prompt or Terminal depending on operating system

6. Navigate to the directory holding the jar files

7. Type java -jar TalkBoxConfiguration.jar to run

8. After configuration is made click launch

9. Simulator will launch

8.Type java -jar TalkBoxSim.jar to run at any time

If unable to run, refer to section 7

4.2 Open in an IDE

1. Go to https://github.com/neharikapurieng/TalkBox

2. Click, download the project.

3. Open an IDE of your choice, and open this project on it.

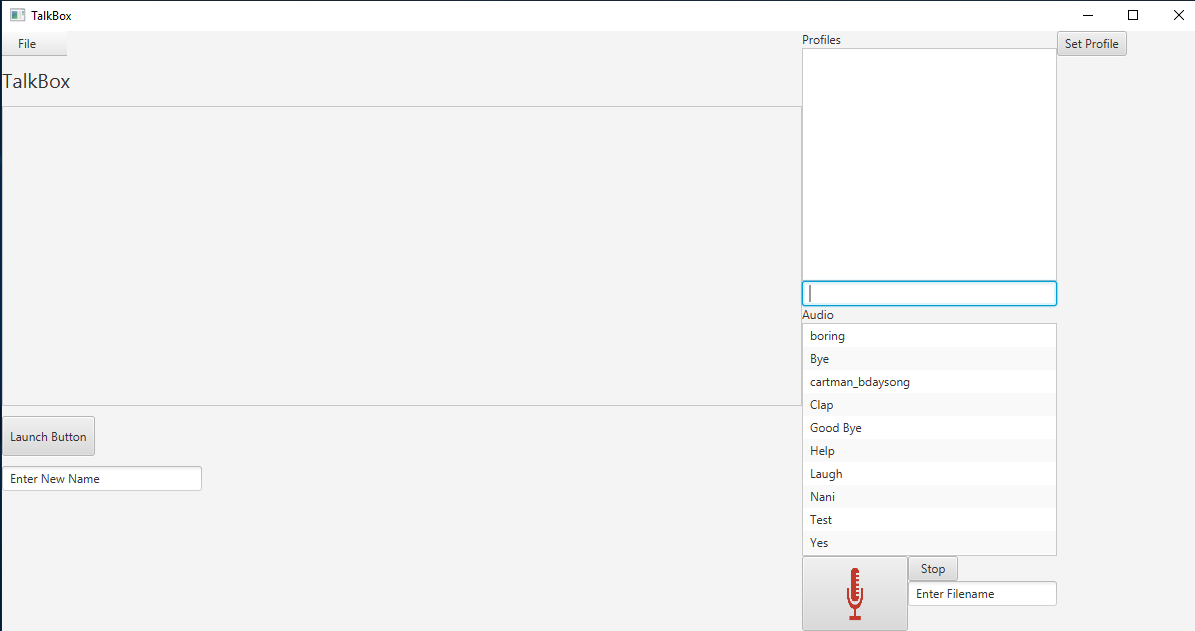
4. Run the project.

If unable to run, refer to section 7

For Visual Representation visit section 7

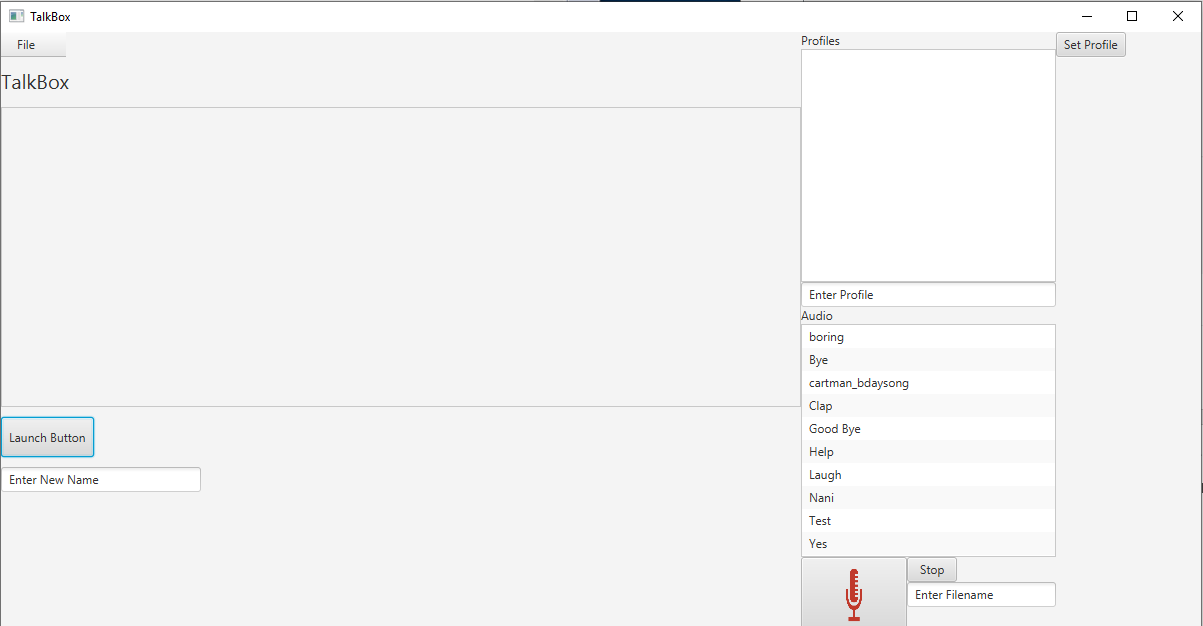
5.0 Configuration App

1. When you run the application. The configuration app will display.



5.1 Create a button

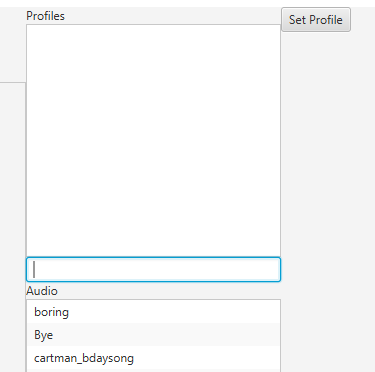
1. On the Talkbox version 2.0 the user simply must clicks the desired Audio Files on the Audio Panel on the bottom right side. Then automatically an audio button will be created at the centre of the application on the Button Panel. Here the user simply clicks on the button with the audio name and the desired audio will play.

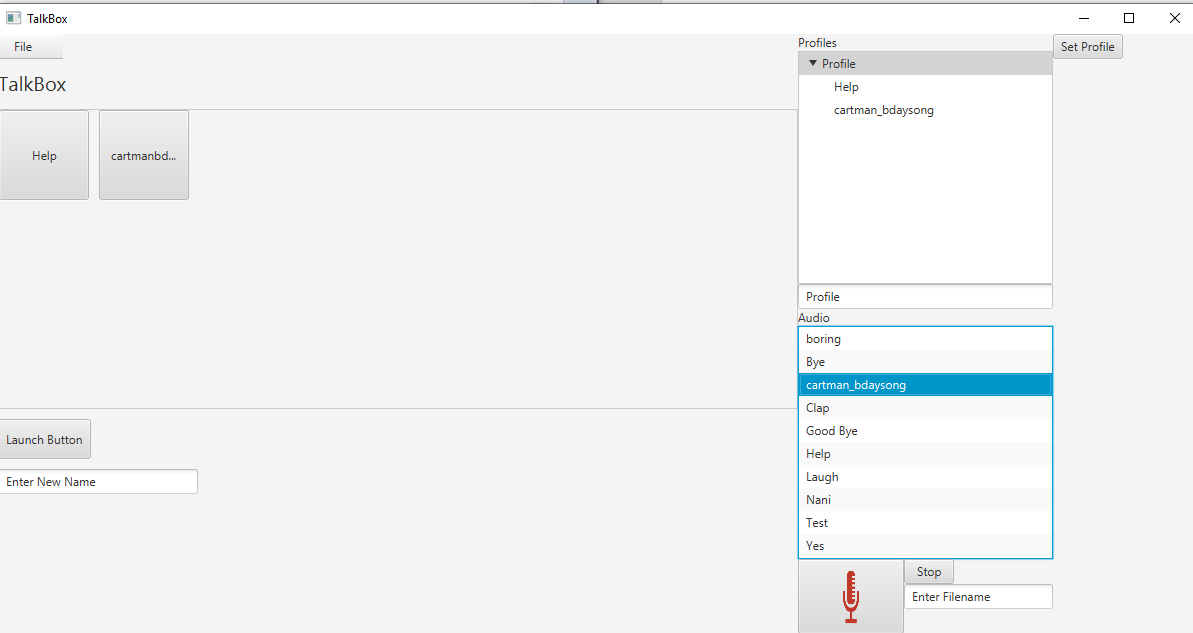


5.2 Make a profile

Before clicking on a button, the client needs to make a profile. To do so, follow these steps.

1. On the textfield below the Profile Panel, you will see a profile. Go to the box that says “Enter Profile Name”, in their write a profile name and press enter.





As the buttons are clicked the Audio Panel displays all of the audio, it simultaneously displays the chosen audio on the desired audio set on the Profile Panel in this case the above illustration displays an audio set titled Profile and two buttons are in the set.

5.3 Record Audio

On the right bottom corner, you will see a list of pre-recorded audios. In order to record your own audio, follow the following steps and you will see your audio in the list.

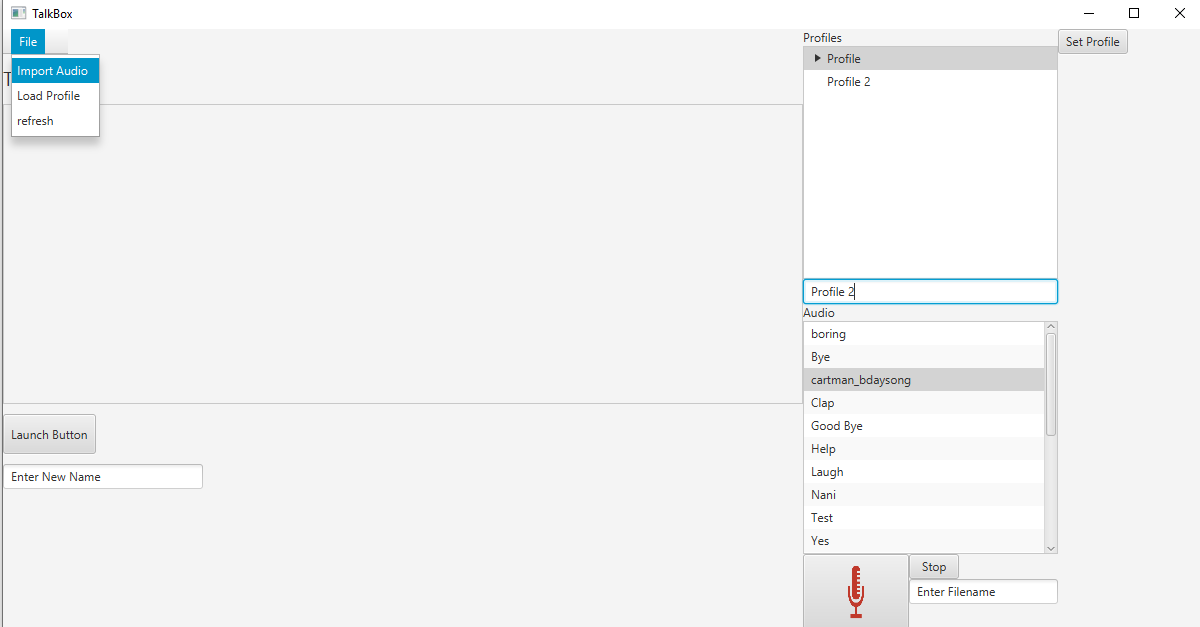
1. Write a name of the audio, in the box that says “Enter Filename”. By clicking on the box and entering the name.
2. Press Record, and say what you want to, then press stop.

Your audio will be now on the list.

5.5 Import Audio Files

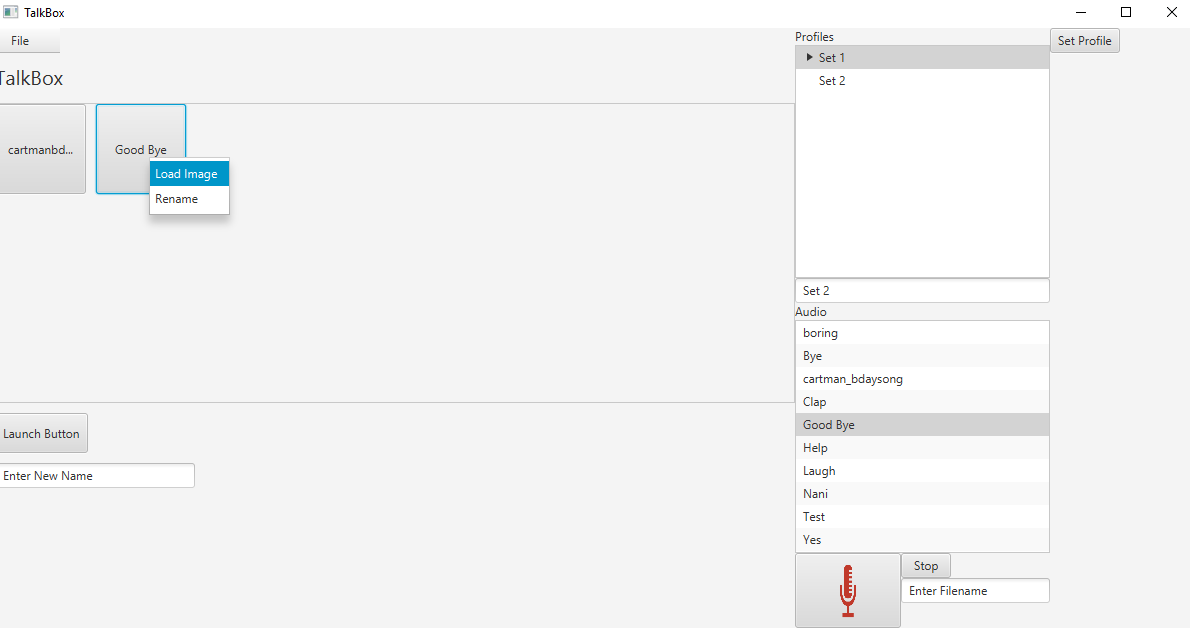
If you have wav files in your personal computer, you can import them into the TalkBoxConfigurator to use them.

1. Click File
2. Click Import Audio
3. Navigate through personal directories
4. Add the wav file
5. The wav file should appear at the bottom of the list of audio files.



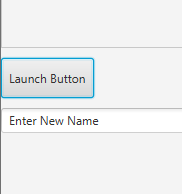
5.6 Audio Button customization

Once a button has appeared on the panel then the user has the option feature for button customization. In the new version of TalkBox, the user can load images or Rename the name of the button using the “Enter New Name” text box below the Launch Button.



5.7 Launch your profile

Now, that your profile is ready. Press the button called “Launch”



5.7 Reload Profile

After using the configurator and launching it once, you can go back and import the last configuration you had.

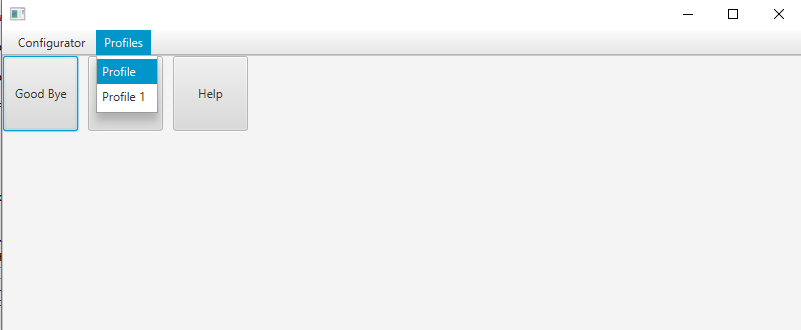
1)Click File

2) Click Load Profile

3) The profiles made from the last configuration should appear under “Profiles”

6.0 Simulator App

Now, that you have launched your profile. You will see another app opening. This is the simulator.



The simulator is user-friendly as it has two menu buttons “Configurator” and “Profiles”. When the user clicks on the profiles they can choose to load which ever one to the simulator. The other menu option is the Configurator which takes the user back to the TalkBox Configurator.

Section 7 Trouble-Shoot

7.1 JAR  
If the JAR file is unable to run do the following steps

1) Make sure the TalkBoxConfiguration JAR file is extracted. A visual can be seen below.

2)Make sure the extracted TalkBoxConfiguration directory is located in the same directory as its JAR file

3)Make sure you have JavaFX installed

4) <https://www.youtube.com/watch?v=o6wUGzJ6PwA> Watch this video for visual help

7.2) IDE

1)Make sure there are no errors in the code

Visual: https://www.youtube.com/watch?v=5smwqeQ96-M&feature=youtu.be&fbclid=IwAR2z8lYq-A\_\_UcnB0jgtMmZiZ8MuqMZzHLNHvSrj0hC-s2ufvEoNuOPhLus

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