

TalkBox Requirements Document

Group 8 (Thanh Huynh, Anas Ishtiaque, Linwei Wang)

Requirements:

1. Create a Configurator and Simulator App that can be used as a TalkBox device to help anybody, who is unable to talk, communicate.
2. The Configurator App should be able to communicate with the TalkBox device as well as the TalkBox Simulator.
3. The Configurator should allow users to modify buttons easily while navigating through the provided GUI. Also, the Configurator needs to be user friendly.
4. The device must have several buttons based on user's needs. Each button should be able to be pressed and have an image describing what the button is for. Once each button is pressed, there will be sound playing according to the button.
5. The configurator should allow users to replace the sound for each button with their own recorded sound.
6. The configurator should allow users to change the images as well as the sound on the simulator.
7. The configurator as well as the simulator app should be able to store in a USB flash drive that can be used in an actual TalkBox device.

Acceptance Test Cases:

- Testing second requirement:
 - Test if the simulator works as well as the information generalized by the configurator works in the simulator app.
 - Test if the configurator can communicate with the actual TalBox device.
- Testing third requirement:
 - Testing the GUI by navigating through it and check whether it is responsive accordingly.
- Testing fourth and sixth requirement:
 - Check if uploaded images and sounds in the configurator match with the ones in the simulator.
 - Check also the valid format of images and sounds.
- Testing fifth requirement:
 - Make sure the number of buttons in the simulator is same as the number of buttons generated in the configurator.
- Testing seventh requirement:
 - This can be tested by installing the two configurator and simulator apps on different type of devices. (e.g. Windows, Linux, Mac, etc..)