

Testing

The Following details the steps for testing each of the use cases in the use case document

Test 1: Power on Device (use case 1)

1. User runs project
2. Mainwindow.ui window appears
3. User presses the red Power button to start device
4. Light above power button switches on
5. User observes steps detailed in use case 1

Test 2: Battery (use case 2)

1. During an ongoing session, battery will be flashed on the power/intensity bar in 30 second intervals
2. To begin a session see test 3

Test 3: Selecting a session (use case 3)

1. User must select session time, session type and user profile using the 'NEXT' buttons next to each menu bar
2. After session type, time and user are selected, check the "On Ear" box to simulate connecting the device to the user's earlobes
3. Press the green checkmark to begin session, if any of the necessary settings are not selected, an error message will be displayed in the console asking the user to make the necessary selections.
4. The session will begin

Test 4: Connection Test

1. Just check that "on ear" button is checked before starting session (see test 2)
2. If button is unchecked during a session, the session will be paused until the box is checked again and a message will be displayed in the console informing the user to reconnect
3. After the checkbox is checked again the session will be resumed

Test 5: Intensity Test

1. During a session, the Int up and down arrow buttons can be pushed to increase/decrease intensity of session, the higher the intensity the faster battery will be depleted

Test 6: Recording session

1. Before starting a session, check the record session checkbox to have a session recorded
2. After the session is over, the recorded session will appear on the side panel, each user will be able to access only their recorded session

Test 7: Users

1. The device has support for 3 users, you can select a user on the side panel using the "Next" button, a user must be selected to begin a session