ID	Requirement	Related Use Case	Fulfilled by	Test	Description
1	The device contains buttons, icons and displays.	N/A	MainWindow.ui	Run the simulator in QT.	Using QT creator, a replica of the OASIS Pro CES device was created. All buttons are clickable and function as they would on a real device. The OASIS pro is displayed alongside an admin panel to configure certain test elements.
2	The device's battery level can be set.	N/A	MainWindow,battery	Run the simulator, set a battery level.	The battery class keeps a record of the power level of the device. MainWindow uses this class to update the display. MainWindow is also used to update this information. The battery level can be set in the admin panel on the right.
3	Display the time left for the session.	N/A	MainWindow, SessionGroup	Start a session and the time left will be displayed on the admin panel.	The mainwindow class will keep track of the time left for the session. It will get the duration from the selected SessionGroup class and use the QTimer attribute to countdown the duration left.
4	The device can be turned on	UC1	MainWindow, Battery	Turn the device on/off by holding the power button.	When the power button is held and released, it will send a signal to the MainWindow to enable all buttons and functionality. The machine will only turn on when the battery level is above 0.
5	The device can be turned off	UC2	MainWindow	If the device is already on, hold the power button and release to turn it off.	When the power button is held and released, it will send a signal to the MainWindow to disable all buttons and functionality.
6	The device will be turned off	UC3	MainWindow	Turn on the device and don't	When the device is turned on, if the user

	automatically if no selection is made within 2 minutes.			select anything for 2 minutes.	doesn't select a session and duration within 2 minutes, the MainWindow will disable all buttons and functionality and set the device to the "off" state.
7	The device's battery will deplete as it is used.	UC4	MainWindow,battery	Turn the device on, confirm a session and duration. Watch the battery slowly deplete.	The battery class keeps a record of the power level of the device. MainWindow uses this class to update the display. MainWindow is also used to update this information. The battery level will consistently decrease when the device is doing a session.
8	When the battery level is low, two bars on the CES graph will blink on and off.	UC5	MainWindow,battery	Turn the device on and set the battery to a low amount(<25).	When low battery level is detected, the MainWindow will make two bars on the device blink until the device is charged(battery amount set higher).
9	When the battery is critically low, one bar on the CES graph will blink on and off.	UC6	MainWindow,battery	Turn the device on and set the battery to a low amount(<5).	When low battery level is detected, the MainWindow will make one bar on the device blink until the device is charged(battery amount set higher).
10	The device allows the user to select a session group.	UC7	MainWindow	Turn the device on and click on the power button to change the different session time options.	When the device is on, the user can change the length of the session by clicking the power button. It will cycle through 3 options which are 20 minutes, 45 minutes and user designated.
11	The device allows the user to select a session.	UC8	MainWindow,Session Group	Turn the device on and use the up or down arrow to go through the sessions.	When the device is on, the user can change the session type by clicking the up or down buttons. It will cycle through 4 options, each corresponding to a different frequency range and CES pulse type.

12	The user starts a highlighted session.	UC9	MainWindow,Session Group,therapy	Turn the device on and select a session type and length. Press ok to confirm your selection.	When the device is on and a session type and length have been selected, the user can hit ok to begin the session. A delay of 5 seconds is applied before starting. After it has started you can see the time left on the admin panel.
13	The device has a connection test.	UC10	MainWindow	Turn the device on and select a session type and length. Press ok to confirm your selection.	When a session has been confirmed. The CES mode light will begin to blink, the status will be displayed on the device graph. Graph bars 7 and 8 blinking indicate no connection, bars 4, 5, and 6 lit up indicate an ok connection, and bars 1, 2, and 3 lit up indicate an excellent connection.
14	Ear clips can disconnect during a session.	UC11	MainWindow	During a session, set the left and right clip connected values to -1.	When a session has been started, if the device detects that the ear clips have been disconnected, it will pause the session.
15	Users can adjust the intensity during a session.	UC12	MainWindow	During a session, the user can adjust the intensity by clicking the up or down arrows.	When a session has been started, the user can adjust the intensity through the up and down arrows. The current set highest intensity number on the graph will blink.
16	The user can record a therapy session.	UC13	MainWindow,Session Group,Therapy	During a session, press the record button.	A therapy session can be recorded onto the device. On session end, currently stored recorded values are added to history of treatment.
17	A session can end.	UC14	MainWindow	Either start a session and wait the duration out or end the session early by pressing the power button.	When a session finishes, the CES graph will scroll and light up numbers 8 to 1. The device will stop output once the session is over. If a session was being recorded, the last used settings at the end of the session are saved.