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| **ID** | **Requirements** | **Related Use Case** | **Fulfilled By** | **Test** | **Description** | **Diagram** |
| 1 | Application contains buttons and displays to simulate device operation | N/A | mainwindow.ui, mainwindow.cpp | Run application and observe GUI | Create an application with a GUI that has a display and buttons to operate the device | N/A |
| 2 | Application can “Turn On” and “Turn Off” using power button | Use Case 1: Power ON/OFF | mainwindow.ui, mainwindow.cpp, Device | Testing Script Power On/Off  Lines 4-5 | Device turns on/off using the power button in the GUI. | USE CASE 1: POWER ON/OFF |
| 3 | Application displays battery level that decreases depending on the treatment duration, type, and connectivity | Use Case 2: Battery Level | mainwindow.ui, mainwindow.cpp, Device | Run Session with selected connectivity type. | Battery level is displayed and monitored by the GUI. | USE CASE 2: BATTERY LEVEL |
| 4 | User can select a treatment session and choose the duration, type, and intensity | Use Case 3: Selecting a Session | mainwindow.ui, mainwindow.cpp, Device, Session | Testing Script  Selecting Treatment  Lines 7-11 | Application allows user to select the duration, type and intensity of the treatment. | USE CASE 3: SELECTING SESSION |
| 5 | Application tests the connection at the start of each session and displays the connection status | Use Case 4: Connection Test | mainwindow.ui, mainwindow.cpp, Device | User starts a treatment session with connectivity type selected | Application displays the connection status in the Status bar above the main display next to the battery level | USE CASE 4: CONNECTION TEST |
| 6 | User can adjust the intensity of the treatment during a treatment session. | Use Case 5: Adjusting Intensity | mainwindow.ui, mainwindow.cpp, Device | Testing Script Selecting Treatment  Line 11 | Intensity changes depending on the user inputs. | N/A |
| 7 | User can save their treatment session settings and reuse them for another session | Use Case 6:  Saving Preferences | mainwindow.ui, mainwindow.cpp, Device, User | Testing Script  Selecting Treatment  Line 12-15 | Treatment Settings are saved in the user profile in the device and can be selected as a treatment session option | USE CASE 6: SAVING PREFERENCE |