

Traceability Matrix

Number	Requirement	Element
001	Menu screen to navigate	Used Qt List Widget. Updated list widget based on menu screen and menu location.
002	Navigation Buttons	Used Qt buttons + slots and signals with List widget to allow for navigation of the menu.
003	Power Button	Used Qt button widget + slots and signals with menu/sliders/battery.
004	Home Button	Used Qt buttons + slots and signals with List widget to allow for navigation of the menu.
005	Battery	Used Qt Slider + Progress Bar to act as a visual battery. Used slots and signals to drain the battery when required.
006	Method to set power	Used a slider to allow the user to set the desired power level.
007	Method to set frequency	Used a slider to allow the user to set frequency. The user can also set frequency using navigation buttons and menu.
008	Recording history storage	Used recording class to be able to store info for single recordings. User vectors to store recordings objects.
010	Treatment Time	Used QTimer class to create a therapy timer. Used QTimer to incrementally decrease time as the user underwent therapy.
011	Frequency Therapy	Users can navigate the menu and choose frequency levels (10Hz, 30Hz, 75Hz, 125Hz). They can then use checkboxes to start and record therapy.
012	Program Therapy	Users can navigate the menu and choose which program (Pain, Throat, Head, Bloating) they would like treatment for. They can use the power level slider to select power level and checkboxes to start and record therapy.
013	Menu Information	Different classes (Programs, Frequency, Recordings and Settings) stored necessary information using vectors. This information is used for updating the menu display.

014	Electrodes	Used a checkbox to simulate when the device is touching the user's skin.
------------	------------	--