Device Use Cases

Turn Device On Use Case (UC1)

Primary Actor:
- Device User

Precondition:
- User has a device.

Main Success Scenario:
1. User presses the power button.
2. The device turns on.

Postcondition
- The device has been turned on and is waiting on the main menu page.

Extensions:
- 2a. The device does not turn on.
    - If the device does not turn on, then the user is required to charge the device battery. If the battery is charged and the device still does not turn on, the user must contact customer service.

Turn Device Off Use Case (UC2)

Primary Actor:
- Device User

Precondition:
- User has a device.

Main Success Scenario:
1. User presses the power button while the device is on.
2. The device powers off the display.
3. The device powers off.

Postcondition
- The device has been turned off and is not consuming power

Change Power Level Use Case (UC3)

Primary Actor:
- Device User

Precondition:
- User has selected either a Program or Frequency, and is on its respective display page.

Main Success Scenario:
1. User presses the right arrow button; the power level increases.
2. Repeat step 1 until the desired power level is reached.

Postcondition
- The device power level has been adjusted to the user's desired level.

Extensions:
- 1a. User presses the left arrow button.
    - 1a1. The power level decreases. Return to step 2.

Related Information:
- Use case can be ended at any time if the user presses the Back button. By doing so, the case will end, and the user will return to the device's previous page.
- Use case can be ended at any time if the user presses the Menu button. By doing so, the case will end, and the user will return to the device's main menu.
- Use case extends the User Selects a Program and User Selects a Frequency use cases. The Change Power Level use case can interrupt these cases at any time.

User Selects a Program Use Case (UC4)

Primary Actor:
- Device User

Precondition:
- The device has been turned on and is on the main menu.

Main Success Scenario:
1. User selects the Programs menu by pressing the Ok button.
2. User navigates through the Programs menu by pressing the Up/Down arrow buttons until some desired program is reached.
3. User selects the desired program by pressing the Ok button.
4. User places the device on skin. Include Activate Electrodes use case.

Postcondition:
- A therapy has been selected and completed.

Related Information:
- Use case can be ended at any time if the user presses the Back button. By doing so, the case will end, and the user will return to the device's previous page.
- Use case can be ended at any time if the user presses the Menu button. By doing so, the case will end, and the user will return to the device's main menu.

User Selects a Frequency Use Case (UC5)

Primary Actor:
- Device User

Precondition:
- The device has been turned on and is on the main menu.

Main Success Scenario:
1. User selects the Frequencies menu by pressing the Ok button.
2. User navigates through the Frequencies menu by pressing the Up/Down arrow buttons until some desired frequency is reached.
3. User selects the desired frequency by pressing the Ok button.
4. User places the device on skin. Include Activate Electrodes use case.

Postcondition:
- A therapy has been selected and completed.

Related Information:
- Use case can be ended at any time if the user presses the Back button. By doing so, the case will end, and the user will return to the device's previous page.
- Use case can be ended at any time if the user presses the Menu button. By doing so, the case will end, and the user will return to the device's main menu.

Activate Electrodes Use Case (UC6)

Primary Actor:
- Device Electrode(s)

Precondition:
- A Program or Frequency has been selected.
- The device has been placed on skin.

Main Success Scenario:
1. Electrode senses skin and begins to output an electrical current.
2. Electrode informs the device to display and advance the Time of Therapy.
3. Step 1 and 2 repeat until the device's allotted therapy time has completed.
4. Electrode is no longer active/does not sense skin.

Postcondition
- Electrode is no longer active/does not sense skin.

Extensions:
- 3a. The electrode no longer senses skin.
    - 3a1. Electrode stops outputting an electrical current.
    - 3a2. Device pauses the Time of Therapy display.
    - 3a3. If electrode senses skin once again, return to step 1. Otherwise, end use case.

Related Information:
- Use case can be ended at any time if the user presses the Back button. By doing so, the case will end, and the user will return to the device's previous page.
- Use case can be ended at any time if the user presses the Menu button. By doing so, the case will end, and the user will return to the device's main menu.

View Saved Therapies Use Case (UC7)

Primary Actor:
- Device User

Precondition:
- The device has been turned on and is on the main menu.

Main Success Scenario:
1. User selects the History menu by pressing the Ok button.
2. User selects the View menu by pressing the Ok button.
3. The device displays all currently saved therapies to the user. If no therapies have been saved, nothing is displayed.

Postcondition
- All currently saved therapies are displayed to the user.

Clear Saved Therapies Use Case (UC8)

Primary Actor:
- Device User

Precondition:
- The device has been turned on and is on the main menu.

Main Success Scenario:
1. User selects the History menu by pressing the Ok button.
2. User selects the Clear menu by pressing the Ok button.
3. User selects the Yes option by pressing the Ok button.
4. The device deletes all currently saved therapies.

Postcondition
- All currently saved therapies are deleted.

Extensions:
- 4a. User selects the No option by pressing the Ok button.
    - 4a1. The user is returned to the History menu. Use case ends.

Save a Therapy Use Case (UC9)

Primary Actor:
- Device User

Precondition:
- The device is in the middle of a therapy, or a therapy has just concluded.

Main Success Scenario:
1. User presses the Back button.
2. The device saves the current therapy settings to the database (History of Treatments).
3. The device returns the user to the previous page.

Postcondition
- A desired therapy has been saved to the device's History of Treatments.

Extensions:
- 1a. User presses the Main Menu button.
    - 1a1. The device saves the current therapy settings to the database (History of Treatments).
    - 1a2. The device returns the user to the main menu.
- 1b. User presses the power button.
    - 1b1. The device saves the current therapy settings to the database (History of Treatments).
    - 1b2. The device turns off.