

### **Battery depleted Abstract Use Case**

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Actor: user, system

Precondition: users is using the device

Details:

1. The device battery gets to critical condition
2. The device will shut off on the user regardless of what they were doing
3. Display that the device is off

Postcondition: user may decide to charge there device once it has run out of battery

### **Custom frequency Use Case**

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Actor: Electrodes, User

Pre-Condition: The device has sufficient battery and is turned on.

Description:

- 1) User navigates to the Frequency tab and select with the 'OK' button.
- 2) User chooses one of the preloaded frequencies (ranging from 1.0hz – 77AM)
- 3) Use selects desired power level with the left/right arrow buttons.
- 4) Timer starts from 0:00 and counts when the electrode detects 'skin-on'
  - a. Timer is set to paused when electrode detects 'skin-off'
- 5) Therapy ends when the return button is pressed by the user.

### **Recording Concrete Use Case**

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Actors: Person using MCT device

Pre-condition: MCT device is turned on

Description:

- 1)User selects programs or frequency by pressing the Ok button
- 2)Then chooses one of the 4 therapies or the 4 frequencies that are available by scrolling with the up and down arrow buttons
- 3)Once a user has selected a therapy or frequency a window is then opened asking the user if they would like to start the recording
- 4)The user selects the option to start recording the therapy or frequency

5)Once a user has finished recording the user ends the recording by pressing the back arrow button or menu button to leave the page.

6)Once finished recording the record is added to the history of treatment Post condition:User has recorded a therapy and has added the recording to the history of treatment

### **Use case for MCT device simulator**

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Actor: User, Electrodes. (Buttons maybe)

Description: The User uses a MCT device simulator for the purpose of therapeutic intervention. Flow of Events:

1. The User turns-on the device by pushing the 'power button'.
2. Screen pops-up displaying the main menu with a set of options.
3. User selects the type of frequency or one of the programmed therapies using arrow buttons.
4. User adjusts the amount of power level required for that therapy.
5. User must then place their skin on the coil and select 'Ok'.
6. The electrodes detect the skin and start the timer. If the skin is off, the therapy stops and the timer is paused.
7. Once the timer hits 00:00, the therapy is completed and displayed on the screen.

