Use Cases

USE CASE 1: New Session
Primary Actor: Neureset users
Stakeholders and Interests:

- Neureset users - Users of the device would need to start a new session before they begin treatment.

Precondition: The user has access to a Neureset device.
Main success scenario:

1. User presses “new session” button to go to session window
2. User presses play to initiate a new session
3. A timer opens and starts once the contact is initiated, and the blue light turns on.
4. An overall baseline is calculated for all 7 EEG sites concurrently.
5. The baseline for the EEG sites is calculated over ~1 minute, and an average dominant frequency for that site is determined.
6. The treatment is applied at that site for 1 second, and a green light flashes.
7. Steps 4-6 are repeated until there is no remaining untreated EEG site.
8. An overall baseline is calculated for all 7 EEG sites concurrently.
9. The session data is created and stored in the session log.

Extensions:

2a. Contact is lost.
    2a1. Red light flashes, session is paused automatically, and the device starts beeping until contact is reestablished.
    2a2. If contact is not reestablished within 5 minutes, the device automatically turns off and the session is erased.
1-9a. User presses pause.
    1-9a1. The session is paused.
    1-9a2. If contact is not reestablished within 5 minutes, the device automatically turns off and the session is erased.
1-9b. User presses stop.
    1-9b1. Session is terminated and user goes back to main menu
1-9c. User presses “view waves”
    1-9c1. Waveform window opens
    1-9c2. User can select between 1 of 7 sites to view
1-9d. Device runs out of battery
    1-9d1. User is notified that the device has lost power.
    1-9d2. Device powers off.

USE CASE 2: Session Log

Primary Actor: Neureset users
Stakeholders and Interests:

- Doctors/Therapists: If doctors use this device as part of their treatment, it will be useful for them to be able to view session information
- Neureset users - Users of the device would want to keep track of their sessions
- Neureset engineers - The session log is a great tool for testing, especially when baselines are exported to PC

Precondition: The user has conducted at least one session
Main success scenario:

1. User presses the “Session Log” button
2. Session log menu opens and can be scrolled through, displaying dates and times, and a “send to pc” button

Extensions:

2a. User presses the “send to pc” button
2a1. User session logs are sent to pc with a confirmation message
2a2. If user hasn’t selected a log to send to the pc, an error message is displayed
2a3. If user tries to add a session twice, a warning message is displayedt

USE CASE 3: Date and Time Setting
Primary Actor: Neureset users
Stakeholders and Interests:

- Neureset users - Users of the device would want to make sure the dates and times of their sessions are correctly calibrated

Precondition: The user has access to a Neureset device.
Main success scenario:

1. User presses the “date and time” button in main menu
2. User can set their desired date and time using the arrows or by inputting it using their keyboard.

Extensions:

2a. User presses the “today” button
2a1. Date gets set to the current day
2b. User presses the “right now” button
2b1. Current time gets adjusted to the current minute

USE CASE 4: Using the PC
Primary Actor: Neureset users
Stakeholders and Interests:

- Neureset users - Users of the device could be interested to check their treatment history

- Therapist - Therapist will need to use the PC to conduct treatment and collect general EEG data for interpretation

Precondition: Users have access to an external PC to run the software, and they have conducted at least one session.

Main success scenario:

1. User sends the session(s)' information to the PC by clicking the "send all" button.
2. The PC window pops up and a scrollable list of the session(s)' information (date, time log, initial baseline, and final baseline) is shown.

Extensions:

1-7a. User presses the "close" button.

1-7a1. The PC window is closed.