

## **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.
- 1-7a. User presses pause.
  - 1-7a1. The session is paused.
  - 1-7a2. If contact is not reestablished within 5 minutes, the device automatically turns off and the session is erased.
- 1-7b. User presses stop.
  - 1-7b1. Session is terminated and user goes back to main menu
- 1-7b. User presses “view waves”
  - 1-7b1. Waveform window opens
  - 1-7b2. User can select between 1 of 7 sites to view

### **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 displayed

### **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.