SEQUENCE DIAGRAMS

Sequence Diagram 1: SWITCH POWER BUTTON ON

```
   ┌──────────┐          ┌──────────┐
   │ Heartwave│          │ Heartwave│
   │   user   │          │  device  │
   └────┬─────┘          └────┬─────┘
        │                     │
        │  presses on/off button
        │────────────────────▶│
        │                     │
        │  checks battery level
        │◀────────────────────│
        │                     │
        │ sends signal to turn on
        │        device       │
        │────────────────────▶│
        │   Device turns on   │
        │◀────────────────────│
        ▼                     ▼
```
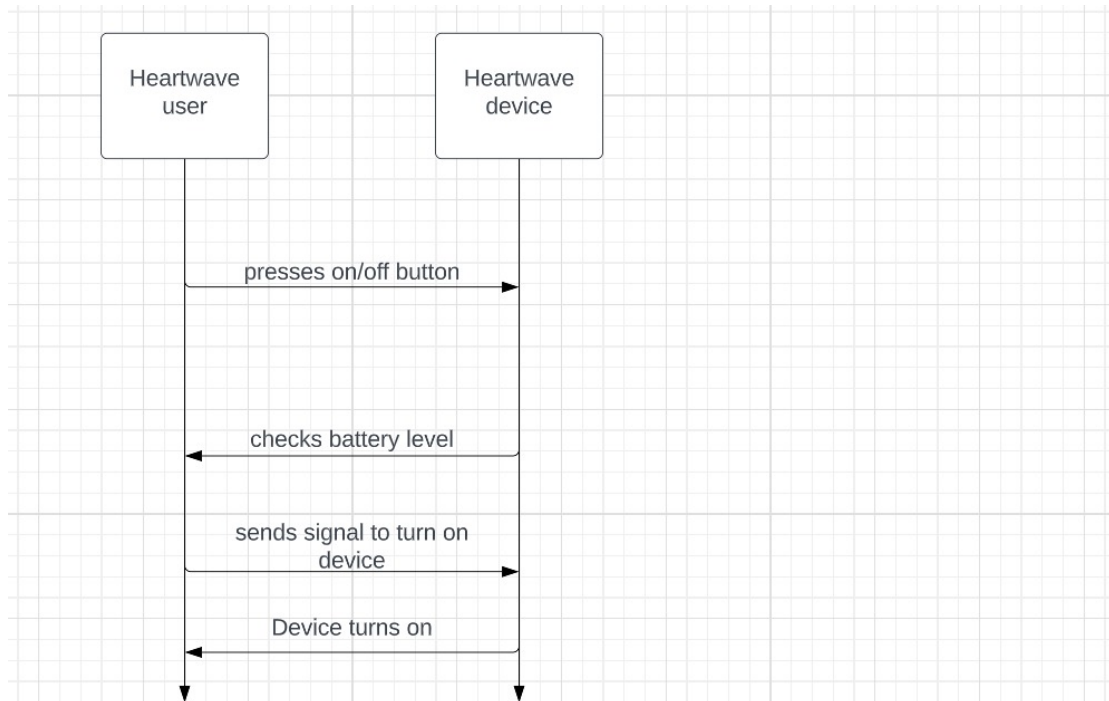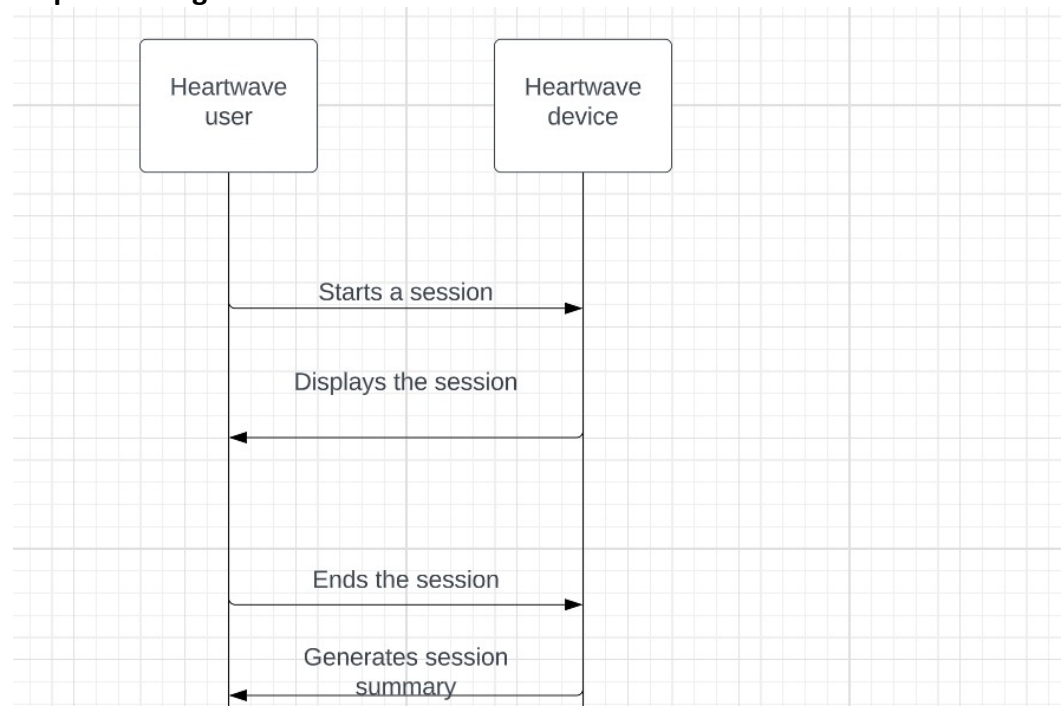
Sequence Diagram 2: SWITCH POWER BUTTON OFF

```
      ┌──────────┐          ┌──────────┐
      │ Heartwave│          │ Heartwave│
      │   user   │          │  device  │
      └────┬─────┘          └────┬─────┘
           │                     │
           │  presses on/off button
           │────────────────────▶│
           │                     │
           │  sends signal to turn off
           │────────────────────▶│
           │   Device turns off  │
           │◀────────────────────│
```
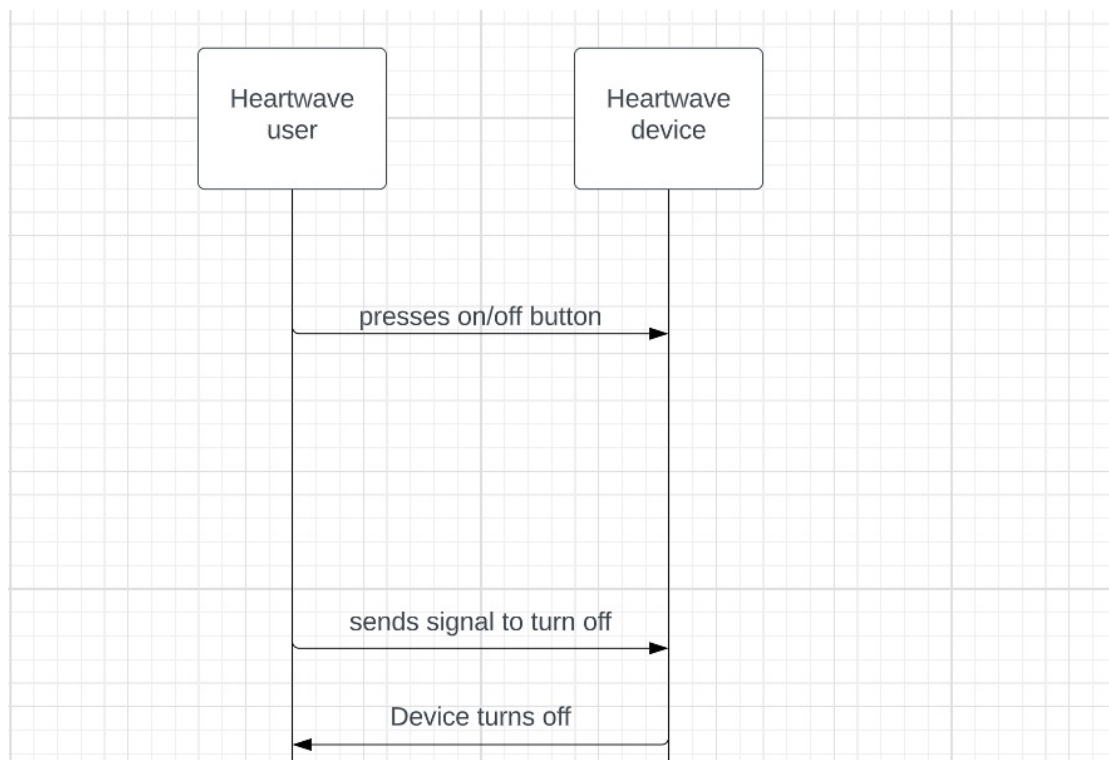
Sequence Diagram 3: START A NEW SESSION
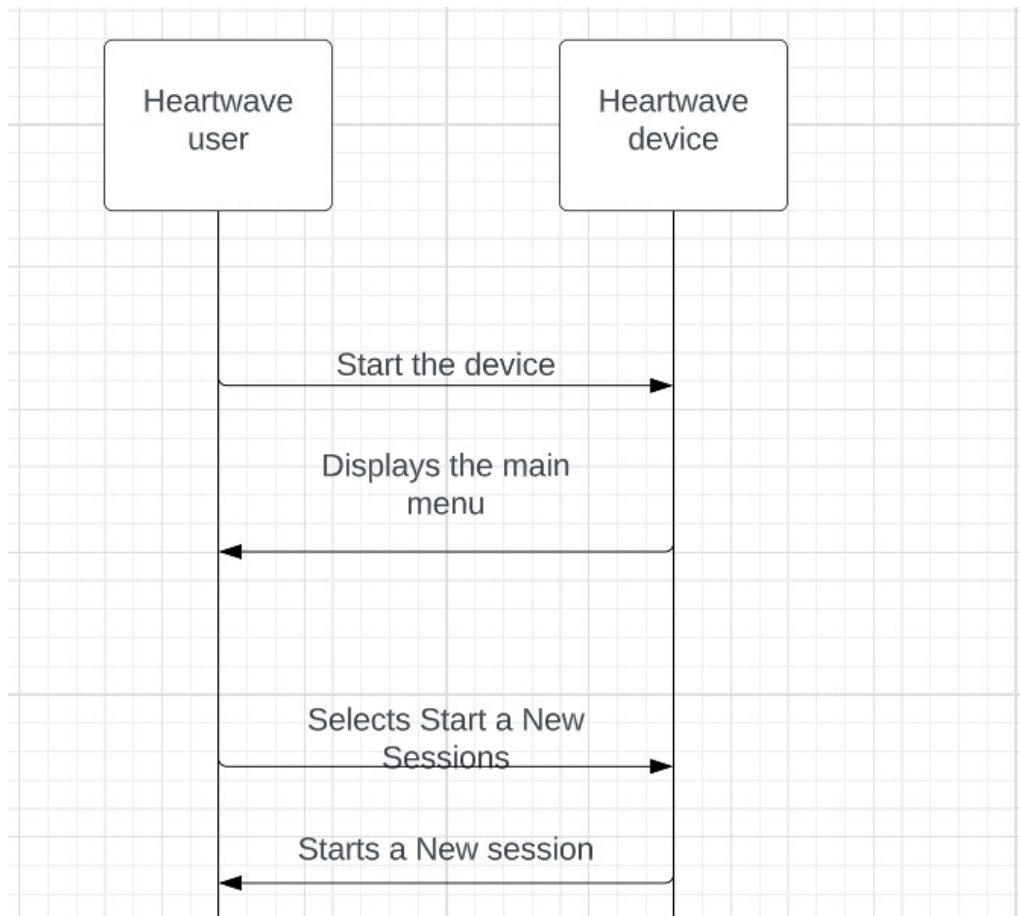
Sequence Diagram 4: END A SESSION

Heartwave user → Heartwave device: Starts a session

Heartwave device → Heartwave user: Displays the session

Heartwave user → Heartwave device: Ends the session

Heartwave device → Heartwave user: Generates session summary

Sequence Diagram 5: USER CHANGES CHALLENGE LEVEL

Heartwave user → Heartwave device: Presses Menu/ Back

Heartwave device → Heartwave user: Display the name

Heartwave user → Heartwave device: Selects Settings

Heartwave device → Heartwave user: Displays settings

Heartwave user → Heartwave device: Selects change challange level

Heartwave device → Heartwave user: Displays Challange levels

Heartwave user → Heartwave device: Selects the new level (1-4)

Heartwave device → Heartwave user: Displays confirmation
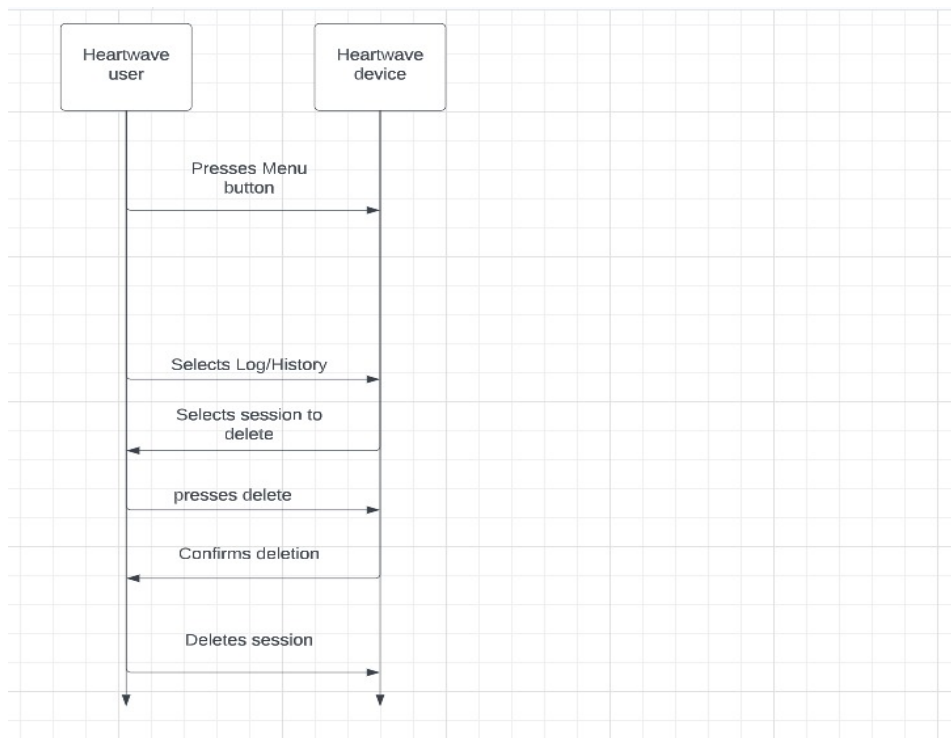
Sequence Diagram 6: BREATH PACER
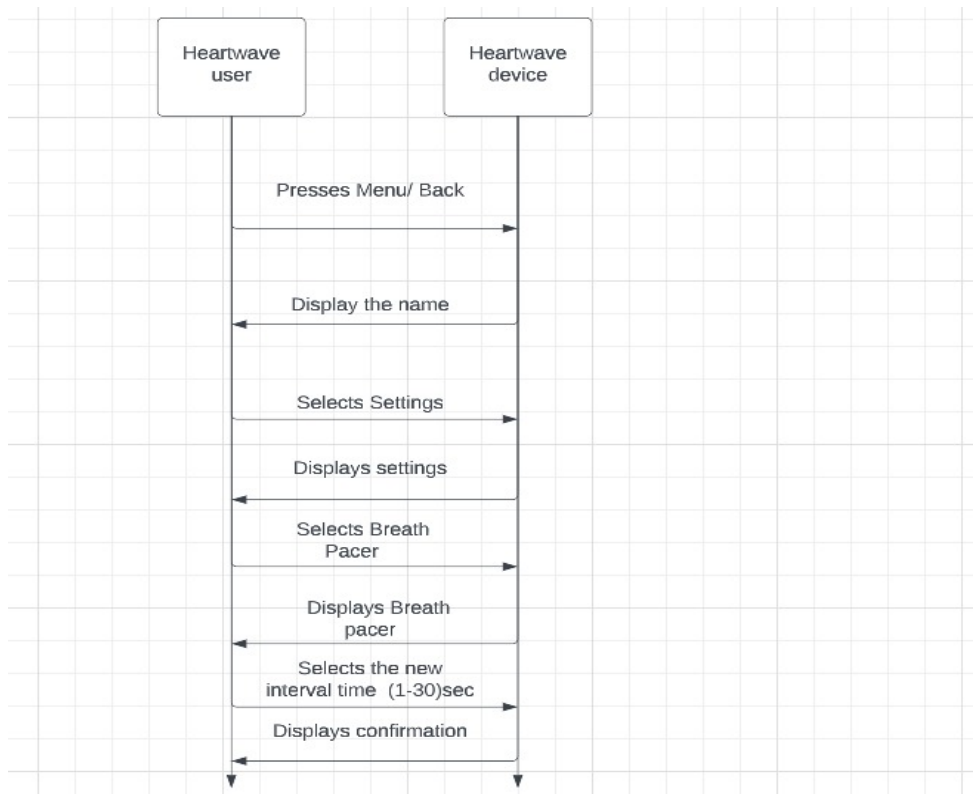
Sequence Diagram 7: VIEW LOG/HISTORY OF SESSIONS
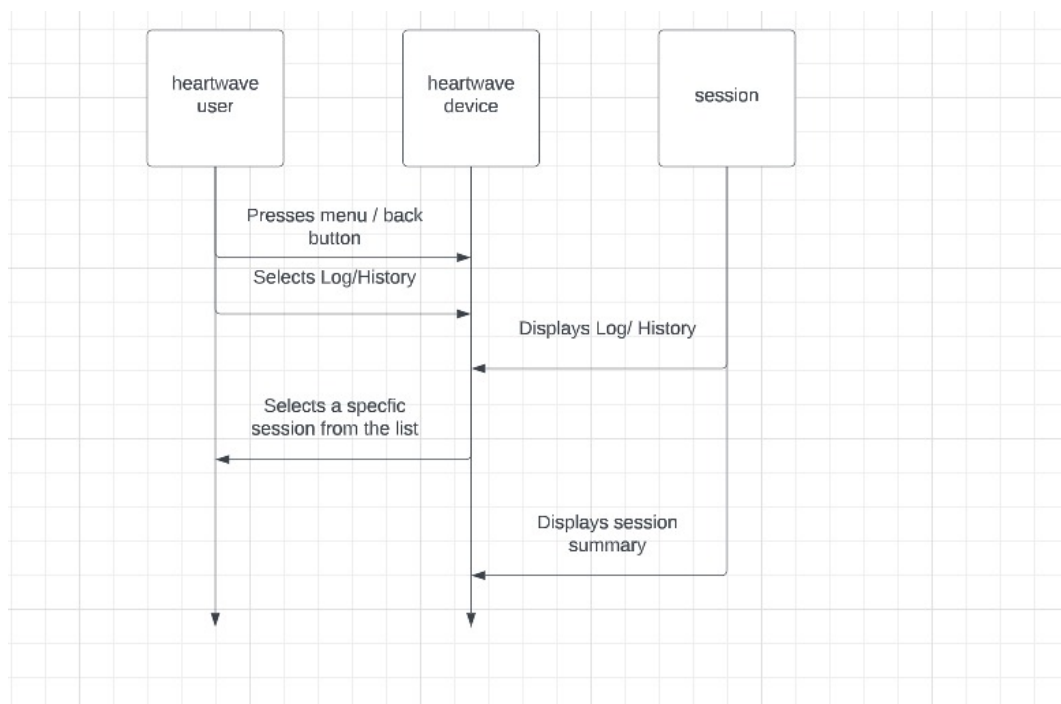
Sequence Diagram 8: DELETE A SESSION

Sequence Diagram 9: RESETTING DEVICE