Speakprose AR IRB Test Document

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# Test Cases

### User Task Analysis - Device Start Up

|  |  |
| --- | --- |
| **Bug-DeviceStartUp-02** | With researcher or caregiver assistant, user presses the button on the phone, completes login to the Speakprose app |
| Bugs Found |  |
| Steps to replicate |  |

|  |  |
| --- | --- |
| **Bug-DeviceStartUp-03** | With researcher or caregiver assistant, user logins with Amazon credentials and links Alexa account with Speakprose AR |
| Bugs Found |  |
| Steps to replicate |  |

### User Task Analysis - Recenter

|  |  |
| --- | --- |
| **Bug-Recenter-05** | With researcher or caregiver assistant, user repositions the UI to a comfortable position to “recenter” the headset |
| Bugs Found |  |
| Steps to replicate |  |

### User Task Analysis - Calibration

|  |  |
| --- | --- |
| **Bug-Calibration-07** | User completes a range of motion calibration, uses the head pointer for the placement of objects on the screen, then calibrates the visual field to a comfortable position |
| Bugs Found |  |
| Steps to replicate |  |

### User Task Analysis - Orientation

|  |  |
| --- | --- |
| **Bug-Orientation-08** | User moves the head around to identify the headpointer and interact with buttons on the screen |
| Bugs Found |  |
| Steps to replicate |  |

|  |  |
| --- | --- |
| **Bug-Orientation-09** | User uses the head pointer to touch the house (home button) and hold the pointer on the button to show yellow racetrack dwell timer |
| Bugs Found |  |
| Steps to replicate |  |

### User Task Analysis - Navigation

|  |  |
| --- | --- |
| **Bug-Navigation-10** | User turns on/off the UI using a persistent toggle “Home” button in the view to avoid accidentally hit the UI elements while engaged in other activities. |
| Bugs Found |  |
| Steps to replicate |  |

|  |  |
| --- | --- |
| **Bug-Navigation-11** | User reaches and dwells on a larger button centered in front of the user (30-45 degree up from the center) to collapse/expand the UI view. |
| Bugs Found |  |
| Steps to replicate |  |

### User Task Analysis - Device Status\*

|  |  |
| --- | --- |
| **Bug-DeviceStatus-12** | With researcher or caregiver assistant, user sees the BCI battery status to decide when to plug in the device to charge |
| Bugs Found |  |
| Steps to replicate |  |

|  |  |
| --- | --- |
| **Bug-DeviceStatus-13** | User sees system status information about connection status and signal strength of cellular data or Wi-Fi network to ensure the device is connected and working. |
| Bugs Found |  |
| Steps to replicate |  |

### User Task Analysis - Customization #1

|  |  |
| --- | --- |
| **Bug-Customization-14** | User chooses the preferred keyboard from the available keyboard layout in settings, apply and save it, and see the layout changed in the view |
| Bugs Found |  |
| Steps to replicate |  |

### User Task Analysis - Usability

|  |  |
| --- | --- |
| **Bug-Usability-15** | User selects the “yes/no” buttons on the Home Scene to answer questions (WAB/CLQT) |
| Bugs Found |  |
| Steps to replicate |  |

|  |  |
| --- | --- |
| **Bug-Usability-16** | User hears audio feedback while confirming the selection, and receives haptic feedback while confirming the selection. |
| Bugs Found |  |
| Steps to replicate |  |

|  |  |
| --- | --- |
| **Bug-Usability-17** | User looks at a letter and wait for the yellow line to go completely around in order to select it. (Instruction: Please selects the alphabet.) |
| Bugs Found |  |
| Steps to replicate |  |

|  |  |
| --- | --- |
| **Bug-Usability-18** | User selects all the single-digit numbers and can compose the present year. |
| Bugs Found |  |
| Steps to replicate |  |

|  |  |
| --- | --- |
| **Bug-Usability-19** | User uses the “clear” and “delete” button to clear the slate and delete single characters |
| Bugs Found |  |
| Steps to replicate |  |

|  |  |
| --- | --- |
| **Bug-Usability-20** | User uses the “play” button to play an audible message to others |
| Bugs Found |  |
| Steps to replicate |  |

|  |  |
| --- | --- |
| **Bug-Usability-21** | User completes generative naming using the keyboard |
| Bugs Found |  |
| Steps to replicate |  |

|  |  |
| --- | --- |
| **Bug-Usability-22** | User completes confrontational naming using the keyboard |
| Bugs Found |  |
| Steps to replicate |  |

### User Task Analysis - Customization #2

|  |  |
| --- | --- |
| **Bug-Customization-23** | User uses the keyboard to compose Alexa commands (e.g., what’s the news) |
| Bugs Found |  |
| Steps to replicate |  |

|  |  |
| --- | --- |
| **Bug-Customization-24** | User uses the star button to save three customized Alexa phrases in the “My Favorites” folder |
| Bugs Found |  |
| Steps to replicate |  |

|  |  |
| --- | --- |
| **Bug-Customization-25** | User selects an Alexa command in the “My Favourites” and selects the “send” button to send it to Alexa |
| Bugs Found |  |
| Steps to replicate |  |

### User Task Analysis - Environmental Controls

|  |  |
| --- | --- |
| **Bug-EnvironmentalControls-26** | User composes utterances for smart home controls (e.g., “turn on/off light/fan/thermostats”, “turn on/off TV) |
| Bugs Found |  |
| Steps to replicate |  |

### User Task Analysis - TroubleShoot and Maintenance

|  |  |
| --- | --- |
| **Bug-TSM-27** | With research or caregiver assistant, user charges the device to manage the device’s power and usage updates |
| Bugs Found |  |
| Steps to replicate |  |

# Recommendations

# Additional Notes