Acceptance Test: Interfacing Between Devices

**Test Name:** IBDAT1

**Requirements Tested:** I1, D3, DB5

**Outline:**  A PC can read files from the ECG

**Prerequisites:**

* The PC and ESG are powered and healthy.
* The ECG is connected to the PC via USB.

**Method:**

|  |  |  |
| --- | --- | --- |
| **Step** | **Action** | **Expected Observation** |
| 1 | View USB devices on the PC. | The PC should list the ECG as a device. |
| 2 | Mount the ECG to the OS. | The ECG should successfully mount to the OS. |
| 3 | Navigate to the ESG and list files. | All the files on the device should list on the PC. |

**Test Name:** IBDAT2

**Requirements Tested:** I2, P9, M1, D3, DB5, S5

**Outline:** The ECG can send files via Bluetooth to a PC.

**Prerequisites:**

* The PC and ECG are powered on and healthy.
* Bluetooth is turned on and discoverable on the PC and ECG.

**Method:**

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| --- | --- | --- |
| **Step** | **Action** | **Expected Observation** |
| 1 | Search for Bluetooth devices on the PC. | The PC can find the ECG as a Bluetooth device. |
| 2 | Connect the the ECG on via the PC. | The ECG should receive a prompt to connect to the PC.  The ECG should accept the request, and the PC should show a healthy connection status to the ECG. |
| 3 | On the ECG, navigate the menu to find files. Use the buttons to send via Bluetooth. | The PC should get a notification of an incoming file from the ECG. |

**Test Name:** IBDAT3

**Requirements Tested:** I3, I4, P8, D3, DB5,

**Outline:** View files on the ECG from a PC.

**Prerequisites:**

* The PC and ECG are powered on and healthy.
* The ECG is connected to the network via WiFI or ethernet.
* The PC is connected to the network via WiFI or ethernet.
* The ECG and PC are on the same network.
* ECG credentials are known.

**Method:**

|  |  |  |
| --- | --- | --- |
| **Step** | **Action** | **Expected Observation** |
| 1 | List connected device on the router. | The ECG should be visible and should have an IP address. |
| 2 | Using the PC, SSH into the the ECG using its IP. | SSH connection should be successful. |
| 3 | Using the correct terminal commands; navigate to the folder containing ECG save files, and list. | A list of files in the current directory should be listed. |

**Test Name:** IBDAT4

**Requirements Tested:** I6, P8, M1, D3, S4, S5

**Outline:** Send data from ECG to a server.

**Prerequisites:**

* The ECG is powered on and healthy.
* The ECG is connected to a network via ethernet or WiFI.
* The PC is connected to the network via ethernet or WiFi
* The server is connected to the same network as the ECG.

**Method:**

|  |  |  |
| --- | --- | --- |
| **Step** | **Action** | **Expected Observation** |
| 1 | Check ECG has a successful connection with the server. | ECG is connected to the server. |
| 2 | Navigate menu to find the list of records on the ECG, and select the option to upload a singular file to the server. | A prompt should appear on ESG to confirm server upload. |
| 3 | Confirm upload from prompt. | An uploading prompt appears.  An upload complete prompt proceeds. |
| 4 | Check the file has successfully been uploaded to server. | The file is visible in the upload directory on the server. |

**Test Name:** IBDAT5

**Requirements Tested:** I7, E5, M1, D3, DB5, S5

**Outline:** View previous results from database.

**Prerequisites:**

* The ECG is powered on and healthy.
* Results have already been saved to the local database.

**Method:**

|  |  |  |
| --- | --- | --- |
| **Step** | **Action** | **Expected Observation** |
| 1 | Navigate menu to results page. | Results are shown in chronological order (latest first) |

**Test Name:** IBDAT6

**Requirements Tested:** I5, E5, M1, D1, D3, H7, S3, S5, E1, E3, E6

**Outline:** Results are sent via SMS to client.

**Prerequisites:**

* The ECG is powered on and healthy.

**Method:**

|  |  |  |
| --- | --- | --- |
| **Step** | **Action** | **Expected Observation** |
| 1 | Navigate menu and select record new readings. | Recording screen is shown. |
| 2 | After the results have been recorded, select option to send results via SMS. | A prompt should appear to enter a phone number. |
| 3 | Confirm phone number and press send. | The results are received in plain text to the specified phone number. |