*BPM DOCUMENTATION*

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| Web Application | | | | | |
| WA1 | Pages loads in reasonable time | To create a good user experience | S |  | 25/10/2018 |
| WA2 | Cross-browser compatible | The webapp can be used on multiple platforms | S |  | 25/10/2018 |
| WA3 | Web application follows best practices | Ensure best web application performance | S |  | 25/10/2018 |
| WA4 | Sensitive information is not stored in source files | Good security practice | S |  | 25/10/2018 |
| WA5 | Responsive design is applied | Ensures good usability | C |  | 25/10/2018 |
| WA6 | Navigation is functional and intuitive | Ensures good usability | S |  | 25/10/2018 |
| WA7 | Prevent against SQL injection e.g. prepared statements | Good security practice | S |  | 25/10/2018 |
| WA8 | Connect to a Database | To load relevant data | M |  | 25/10/2018 |
| WA9 | Display blood pressure data | So user can access blood pressure information | M |  | 25/10/2018 |
| WA10 | Edit user information | To keep records accurate | M |  | 25/10/2018 |
| WA11 | Delete user information | Uphold data protection | M |  | 25/10/2018 |
| WA12 | Create a user profile | BPM can save results for specific user | M |  | 25/10/2018 |

## 

## **Web Application**

**Test Name**: WA\_T1  
**Requirements Tested**: WA1, WA3, WA5   
**Outline**: Run performance analysis on web application  
**Pre-requisites**: The PC is powered on and healthy, the PC is connected to the internet, Google Chrome is installed, the website is live, the active program Google Chrome  
**Method**:

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| **STEP** | Action | Expected Observation |
| 1 | Navigate to the index of the web application. | Google chrome is displaying the index of the web application |
| 2 | Enter the developer console by pressing F12, or right click, inspect element. Navigate to the *Audit* tab. | The developer console is open, and the active tab is *Audit* |
| 3 | Ensure all options are selected, apart from *Progressive Web App* and *SEO*. Select the *Desktop* device. | All relevant tabs are selected, the test is ready to begin. |
| 4 | Run Aduit. | The audit is running. |
| 5 | Audit passes. | The web application is adequate (minimum score 45 for a given component) |
| 6 | Run the test again, this time select device *Mobile* | The audit is running. |
| 7 | Audit passes | The web application is adequate (minimum score 45 for a given component) |

**Test Name**: WA\_T2  
**Requirements Tested**: WA2, WA6, WA8, WA9  
**Outline**: Web application is functional on multiple web browsers  
**Pre-requisites**:

The PC is powered on and healthy, the PC is connected to the internet, multiple web browsers are installed (Chrome, Firefox, Opera etc.), the website is live, a web browser is active  
**Method**:

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| **STEP** | Action | Expected Observation |
| 1 | Navigate to the index of the web application. | The index page of the website is being shown |
| 2 | Go to each page of the website | The current page is functional |
| 3 | Repeat steps 1-2 using multiple web browsers | The current page is functional |

**Test Name**: WA\_T3  
**Requirements Tested**: WA6, WA8, WA10, WA11, WA12  
**Outline**: Test create, update and delete of a user account  
**Pre-requisites**:

The PC is powered on and healthy, the PC is connected to the internet, a web browser is installed, the website is live, a web browser is active  
**Method**:

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| **STEP** | Action | Expected Observation |
| 1 | Navigate to the index of the user section of the web application | The user profiles section of the website is being showed in the web browser |
| 2 | Create a new user | A new user has been created successfully. The user is visible. |
| 3 | Edit the information about the user that has just been created | Changes have been made to the user account just created, and the information has been saved successfully. |
| 4 | Delete the user that has just been created | The all information about the user has been successfully deleted. |

**Test Name**: WA\_T4  
**Requirements Tested**: WA3, WA4, WA7  
**Outline**: Check source files don’t leak sensitive information  
**Pre-requisites**:

The PC is powered on and healthy, source files are available to access, the root of the web application directory is active (either in terminal or GUI), a text editor is installed  
**Method**:

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| **STEP** | Action | Expected Observation |
| 1 | Open each source file (e.g. .html, .css, .js, .php etc.) | The source file contains no database connection information (e.g. password, user, DB etc.).  If database queries are used, prepared statements are in place to prevent SQL based attacks. |

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| Networking | | | | | |
| NW1 | Connect to a network | To connect to the server | M |  | 25/10/2018 |
| NW2 | Disconnect from network | To disconnect from all networks | M |  | 25/10/2018 |
| NW3 | Enable Wi-Fi | To allow device to connect to a network (e.g the server) | M |  | 25/10/2018 |
| NW4 | Disable Wi-Fi | To disconnect from all networks | M |  | 25/10/2018 |
| NW5 | Disable Wi-Fi if not connected to network for prolonged period | Save power | C |  | 25/10/2018 |
| NW6 | Reconnect to last used network when Wi-Fi is enabled | Speed up connection to server | C |  | 25/10/2018 |
| NW7 | Forget a network | To remove networks no longer being used | S |  | 25/10/2018 |
| NW8 | Remember connection information for networks | The device can connect without entering a password | S |  | 25/10/2018 |
| NW9 | Enable/disable auto connect to networks | Increase usability | C |  | 25/10/2018 |

**Test Name**: NW\_T1  
**Requirements Tested**: NW1, NW3  
**Outline**: Connect to a new network  
**Pre-requisites**:

Device is powered on and healthy and Wi-Fi is disabled  
**Method**:

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| **STEP** | Action | Expected Observation |
| 1 | Navigate menu to find the Wi-Fi options | A list of options relating to Wi-Fi is listed |
| 2 | Turn on Wi-Fi | The device will search for available networks, and list them when the search is complete. |
| 3 | Choose a network and attempt to connect | The device will try and connect to the selected network. A prompt to enter the password may appear. |
| 4 | Enter network password if required | Connection is successful |

**Test Name**: NW\_T2  
**Requirements Tested**: NW2, NW7  
**Outline**: Forget a network  
**Pre-requisites**:

Device is powered on and healthy, Wi-Fi is enabled and connected to a network  
**Method**:

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| --- | --- | --- |
| **STEP** | Action | Expected Observation |
| 1 | Navigate menu to find the Wi-Fi options | A list of options relating to Wi-Fi is listed |
| 2 | Disconnect from the active network | The device should now be disconnected from the network it was connected to |
| 3 | Select option to forget the network it was connected to | A prompt may appear to confirm choice. A list of available network will be listed |
| 4 | Try and connect to the network that has just been ‘forgotten’ | The prompt to enter a password may appear. This proves the device no longer remembers the network |

**Test Name**: NW\_T3  
**Requirements Tested**: NW1, NW2, NW3, NW4, NW5, NW9  
**Outline**: Wi-Fi automatically turns off when inactive for defined period   
**Pre-requisites**:

Device is powered on and healthy, Wi-Fi is enabled and connected to a network, auto-connect to networks is enabled in the Wi-Fi options.  
**Method**:

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| **STEP** | Action | Expected Observation |
| 1 | Navigate menu to find the Wi-Fi options | A list of options relating to Wi-Fi is listed |
| 2 | Disconnect from the active network | The device should now be disconnected from the network it was connected to |
| 3 | Disable ‘auto-connect’ to networks | The option has been disabled. |
| 4 | Disable Wi-FI | Wi-Fi should be turned off |
| 5 | Enabled Wi-Fi | A list of available networks should be listed |
| 6 | Wait for defined period | After period, Wi-Fi should automatically be disabled |

**Test Name**: NW\_T4  
**Requirements Tested**: NW1, NW3, NW6, NW8  
**Outline**: Device remembers previously connected networks   
**Pre-requisites**:

Device is powered on and healthy, Wi-Fi is disabled, auto-connect to networks is enabled in the Wi-Fi options.  
**Method**:

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| **STEP** | Action | Expected Observation |
| 1 | Navigate menu to find the Wi-Fi options | A list of options relating to Wi-Fi is listed |
| 2 | Enabled Wi-Fi | A list of available networks should be listed  If a previously connected network is available, the device will automatically connect to it |