

TRACEABILITY MATRIX

ID	REQUIREMENT	REALTED USE CASE	FUFILLED BY
1	The Heartwave device displays a screen which contains the menu options and the display graph. It also has the following buttons: off/on, menu, back button to return to the user to the menu, four arrow buttons(up/down/left/right) and a selector in the center of the arrow buttons, hr contact (functions as start stop button in session mode), save button.	N/A	mainwindow, session, scores, loghistory, settings, testdata
2	When power button is pressed, the device is turned on and switches to the main menu page awaiting user interactivity.	Turn Device On	mainwindow session
3	When the power button is pressed while on, it is turned off and is no longer consuming battery power.	Turn Device Off	mainwindow, session
4	Under the 'create new session' option, when the hr contact button is pressed, the timer starts and the current coherence score, achievement score, and heart rate variability graph are displayed.	Start A Session	mainwindow, session, scores, settings, testdata
5	A coherence indicator is displayed on the session screen which uses LED light that changes colours when a new level is reached based on the selected challenge level.	N/A	mainwindow, session, scores, settings, testdata
6	The session is disrupted by pressing the hr contact button is pressed again while the session is active or the menu button. This ends the session.	End A Session	mainwindow, session
7	User can alter the challenge level by accessing it under the settings section. There are 4 challenge levels (beginner, intermediate, hard, advanced) that correlate to different coherence levels which can be adjusted for the user's desirability.	Change challenge level	mainwindow, session, settings
8	The user can alter the breath pace simulation by accessing it under the settings section. There options range from 1-30 and can be adjusted for the user's desirability.	Change breath pace	mainwindow, session, settings
9	The user can view and display previous session runs by accessing the log history of all sessions run. The user can see a list of all sessions and see a single summary of it and a possible delete option.	View Log History	mainwindow, session, scores, loghistory, settings, testdata
10	If the user wants to reset the device and clear all saved settings, the data can be reset and the Heartwave device is set back to factory settings.	Clear History	mainwindow, settings
11.	A summary view of the session appears at the end of the session when the save button is pressed. This halts the process and creates a summarized page view of the session's acquired metric data values. This includes	Save a session	mainwindow, session, scores, loghistory,

	the % of time in coherence levels, average coherence, length of the session, challenge level, achievement score and the entire HRV graph.		settings, testdata
12	Battery charge indicator that displays the power percentage of the device's battery is displayed on the device's remote section.	Charging battery	mainwindow, settings