

E-Care @ Home

WP1: Functional Requirements Specification

D1.2.2: Mood Test

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| ABSTRACT |
| This document describes the functionality to be accessed via the UX-layer according to the architecture described by the wireframes, with the presentation style described in ‘graphics’ and the UX behavior to be fully specified in the WP-2 – UX templates.  |
| KEYWORDS |
| ECH, WP1, UX specifications, Functional Spec, mood chart |

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1. Overview:

In the terminology of the WellTogether service system, the Mood Test is a downloadable ‘individual test’ that captures a user’s subjective assessment of mood on a +/- scale where + = happy / positive feelings and - = depressive feelings. Like all tests there will be a ‘normal’ range of values and more extreme values worthy of note by either the user themselves or their carer.
2. Main configuration functionality
	1. Test Library availability
		1. First use availability
		The Mood Test will appear (under the heading ‘ Mood Test’) in the master library lists as shown on homepad and on CMP: ‘Standard Wellness Test Homepad Library (S-WT-HP-L) ’ and ‘Standard Wellness Test CMP Library (S-WT-CMP-L) ’. It will display as ‘normal sized’ selection tile – as per std test behaviour. In this mode no information related to this test exists in any specific user record. The code in the WT master library will be the test code including an information page and default values for any setting parameters.
		2. Already used indication
		If the Mood Test has already been added to an individual service profile, this will be indicated in the library tile as .
		3. Other libraries:
		‘pre configured’ Mood Tests will also be available in the ‘institution specific’ test libraries of Care Management portal (CMP) users. This applies specifically to alert thresholds and reminders.
	2. Adding a Mood Test from the Homepad

	After the Mood Test has been selected from the test library (by pushing ‘add’ in the test info view) a standard tile appears in the scrollable ‘my test’ area on the Homepad wellness overview page. (and in the corresponding CMP location). With a ‘new’ option. The tile is added to the top left position in the scrollable field.
		1. Service record update:
		The addition of a test amends the individual service user record of the Homepad user or the institutional record of the CMP user. Default values for user controlled parameters are added to the record and the appropriate data fields are set up and set to ‘no data’
	3. Pre-configuration via the CMP:
		* 1. ‘Pre-Configuration’ Test Profiles:
			Like Homepad users, Institutions operating the Care Management Portal will be able to create ‘institutional customisations’ of the user controlled test parameters, however and store these in their own ‘institution specific’ library.’ Functionality when accessed from . These ‘differ from individual tests in the following ways:
			2. Re-usable with multiple individual service users
			The ‘Pre-Configuration’ Test Profiles are stored in a library specific to the CMP licensing institution: the ‘Institution Specific Wellness Test CMP Library (I-WT-CMP-L) and can be reused for multiple users.
			3. Lockable parameter customisation
			Pre-configuration allows CMP users to set and ‘lock’ selected user configuration parameters. (for example alert thresholds, reminder settings etc..)
			4. .
			5. Access permissions for ‘pre-configuration’ via the CMP
			The CMP will provide edit access permission control, via either individual login or employee role, to restrict who is allowed to create and set parameters for institutional customisations.
		1. Recommendation:
			1. By Friends & Family portal user : (new std V2 test behaviour)
			FFP users will have access to the ‘Standard Wellness Test Homepad Library (S-WT-HP-L)’ and trigger a ‘recommend’ action. This will send a note, with an arrow link to the test info page (as per routine behaviour). If the test is ‘added; the default configuration profile (CP) is set up in the individual service user record.
			2. By CMP user
			A CMP user (e.g clinician) can ‘suggest’ either a blank or ‘pre-configured’ Life Chart from the appropriate library and trigger a ‘recommend’ action. This will send a note, with an arrow link to the test info page (as per routine behaviour). If ‘added’ either the default configuration profile (CP) or the specific ‘pre-configured’ profile 9PCP) is set up in the individual service user record.
		2. Prescription:
			1. Fast add:
			A CMP user (e.g clinician) will have the right to ‘prescribe’ either a blank or ‘pre-configured’ Life Chart from the appropriate library. This will be controlled from the Care management portal. This will take the LifeChart directly into ‘added/preconfigured’ mode on the Homepad, with the preset default configuration selected by the CMP user.
			2. User consent:
			User consent will only be obtained for collection of data. (according to new std test protocols to be documented under Homepad V2).
3. Main Data requirements

The central service user record will contain a unique named test data record for ‘mood test’ Each record will contain:
	1. Data reading values: Mood @ Time
	A record of ‘mood value’ data points (on a scale of -5 to + 5) associated with the time/date stamp of when the reading was taken.
	2. Alert profiles:
	The test record will contain the parameters defining alert status. These will have default values as described in the templates which will be superseded by user set values.
		1. Alert status:
			1. None = Default = ‘situation OK’
			2. Red = (typically, ‘urgent, needs immediate attention’)
			3. Orange = (typically ‘needs prompt, but not immediate attention’)
			4. Yellow = (typically ‘action recommended’).
			5. Green = (typically ‘going well keep it up)
			6. Reward = (typically ‘excellent’ achievement’, well done).

			(note template update required)
		2. Threshold mood values:
		For each alert status, the alert profile will contain ‘range pair’ thresholds associated with alert rules. E.g. for red status, mood = above x and below –y . The default values will be set in the UX templates.
		3. Repeat values:
		All alert rules include a ‘repeat’ setting which is also stored as a parameter. This indicates how many times an ‘outside threshold’ value needs to be recorded to trigger any alert. The test alert profile, for any given alert, will contain the number of repeats above any threshold is the alert rule of of the form ‘above value x below –y for z days. The default repeat value = 1. The ‘alert above’ event clock is reset to zero when a reading value is recorded within the threshold.
		4. Automatic ‘no reading’ alert:
		The test record will contain a time value representing the difference between ‘now; and last reading.
		As default, If this value exceeds 1 week, a yellow alert status will be set. The user can amend this time delay.
	3. Notes:
	The service user cord will include notes attached to readings along the timeline. Associated functionality will include:
		* 1. Add note
			2. Edit note
			3. Delete note
			4. Move note in time
	4. Test information
	The test record will include a summary of the test description and presentation. This will be displayed in the test library and at any time in use via the settings page.
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1. Main ‘in use’ functionality
	* 1. ‘Overview’
		The Life Chart will appear as a large full width tile. On each tile there will be:
			1. Display of Life Chart name.
			2. Control to gain access to ‘detail view’ (when tests present)
			3. Individual test display clusters: (Max 5)

			Each individual connected test will appear as display cluster. These will always appear in the same size, on the same (approx. 1/5th ) pitch regardless of the number of selected tests. They will add in from the left. Each cluster will display:

				1. Name of individual test
				2. Numerical Display of latest individual reading.
				3. Colour display of alert status of each individual reading
			4. Zero test added situation

			If the Life Chart tile is viewable in ‘My tests’ but no tests have been added, a message will be displayed as per wireframes and templates and the control that normally gives access to ‘detailed view’ will give direct access to ‘settings’.
		2. Settings / test choices
			1. Main elements:
				1. Master tile edit area display:

‘first use functionality’
A user explanation prompt is displayed

Normal functionality:
An ‘edit control’ block appears by default over the leftmost individual test cluster It gives the user the option of moving the test cluster left and right or removing it entirely (unless ‘settings’ is disabled in the CMP recommend or prescribe scenarios).

* + - * 1. Scrollable test library selection area:

				This will contain an array of Individual test library tiles, each with a ‘select’ me touch control .

My tests
The user will be offered a display of ‘test selection tiles’ from all the tiles in the Homepad personal test selection library. (my tests). Tests already connected to the life-chart will be greyed out and not be selectable. Presentation format will be as per wireframes and templates.

Master test library:
Below ‘My tests’, in an separate field of the scrollable area, the user will be offered a display of ‘test selection tiles’ consisting of all the tiles in the Homepad Master Wellness test selection library, except those already displayed in the ‘My tests’ field.

* + - * 1. Normal exit behaviour
				Via ‘save settings’
				2. Abort functionality:
				By Pressing any key the Nav bar (triggers a confirmation sequence as per wireframes and templates)
				3. Back Functionality
				Available From any screen after the main setting screen. From main ‘settings’ screen, triggers abort confirmation sequence.
		1. Detailed views
			1. Multi-viewer display

			In the centre of the detailed view, ‘timeline’ graphs of the reading values for all the selected tests will appear in the current ‘presentation configuration’. There are two main multi-viewer presentation modes: combined and stacked.
				1. Scrolling behaviour
				The multi-viewer display can scroll horizontally. The ‘forward’ (end stop) in the timeline is ‘now’
				2. General Graph functionality:

X Y rules:
The graphs will be populated by data points from the individual servicer user record for each individual test. (X = timestamp, Y = reading value). The X-axis will display on one of a variety of user selected scales. The Y scale will adjust automatically to display lowest value aligned to bottom edge and the highest value aligned to the top edge (with small visual gaps to the edge as per templates. The default time period displayed will have ‘now’ on the extreme right side.

Formats
Any graph can be displayed as either a line or bar chart. The default mode will match the current mode of any individual test (or its default).

Line weights / widths
The display rules for line weights and widths, and their relationship to individual test displays will be finalised in the template coding process.

* + - * 1. Combined (may be renamed ‘overlay’ ) display mode:
				In combined mode the graphs for all the added test will be displayed according to user set presentation. One of the graphs will always have ‘foreground’ status, the others ‘background’ regardless of presentation rule. Each graph colour selection will have 2 automatic tonal variations to differentiate foreground/background status.
				2. Stacked display mode
				In this mode the graphs for all added tests will appear in a vertical stack, with no overlap as per wireframes and templates. The individual graphs will appear ad per the individual test detail displays and will include graphical indication of alert limits.
			1. Multi-viewer ‘quick controls’ – All modes
				1. Multi-viewer main mode control:
				A toggle control will alternate the comparative display of the selected tests between a ‘combined’ (might be called ‘overlay’) mode and ‘stacked’ mode.
				2. Timescale bar:
				Gives users the option of viewing ‘1 day per screen width’ 1 week per screen width’ 1 month per screen width’ 1 year per screen width, or ‘all readings since first reading on a single screen.
				3. Date display
				The multiviewer will display the time span shown on the graph as per wireframe and template guidelines.
				4. Notes functionality
				The user will be able to save and edit notes at point along a timeline. (the option will most directly be accessed when logging a reading). Notes control (add, view amend) will be accessed via ‘ a notes’ key

 Notes display mode
Will display note icons along the timeline (following the scroll of the main multiviewer)

Active note selection:
At any point only one note will be ‘active’. Active status will have its own distinct presentation. (as per wireframes and templates). Left right arrows will move the ‘selected active’ highlight between message icons along the timeline. The arrows can also trigger scrolling of the multi-viewer if the arrows are pressed when the ‘active’ icon is at either end of the display.

Note control options:
View and amend as per wireframes and templates

* + - 1. Multi-viewer ‘quick controls’ – Combined mode only
				1. Added Test tab bar: (only available in ‘combined’ view)
				The ‘added’ tests will appear as a row of tabs below the multi-viewer display.
				The left-most tab will appear as the default ‘selection’. ‘Selection’ of any available tab at any time will make this the ‘selected’ test and will display the graph for that test as the only one in ‘foreground’ mode. All others will be in ‘background’.
			2. Multi-viewer ‘quick controls’ – Stacked mode only
				1. Relative to V1 wireframe: delete ‘bar/line’ toggles.
				2. ‘active test control’ :
				Name of test is also an ‘active’ toggle which makes the test selectable
			3. Main App control functions
				1. Main app control bar:
				Displays the user selected name of the life chart and a selection of controls as follows:
				2. Graphics control functionality (V1 wireframe – needs amendment)

				Pushing the ‘change look’ button reveals the Graphics control bar and changes the legend in the ‘change look’ button space to ‘done’ .

				Activation reveals the Graphics control bar. In combined viewing mode this appears at the bottom of the main multi-viewer window, above the tabs.

				In ‘stacked’ display mode, the Graphics control bar appears below the selected test. Tests below are moved down.

				The graphics control panel has the following controls:

Bring forward / Send backward
Available from Combined viewing mode only. Moves the order of the graph overlay. Templates will determine how ‘Overlay order’ is to be communicated visually.

Bars / line
Changes presentation of the selected graph between ‘line’ and ‘bar’ formats.

Show/hide
Available in Combined viewing mode only. Turns off the selected graph

Change colour
Takes user to a ‘colour selection’ screen which offers a range of preselected colours with a clear indication of which colour on the bar is ‘selected’ (check wireframe).

The effect is shown instantly on the selected graph

Mute background (amend wireframe)
Available in ‘combined’ view only

This control will reduce the hue of all the graphs other than the single ‘foreground’ graph using graphical techniques specified in the templates. (it is TBA if all 4 are reduced equally or if each is attenuated by an equal incremental amount the further back it is in the stack ‘order’.

* + - * 1. Log Readings functionality

				This displays the ‘log a reading’ screen for the ‘selected’ test, in a format identical to the one used for each individual test. (Tab behaviour to be invested at template stage).
				2. Settings functionality:

				Users can access the ‘test choices’ via the ‘settings’ page as well as via the direct link made during set up.

Settings / Reminders:
Users will be able to set, view and edit multiple reminders for each individual test connected to the Life-Chart.
Any reminders set at any time via individual test apps will also appear in the Life chart.
All reminder behaviour described in this document is to become a V2 update to Standard Test App Behaviour.

View set reminders:

Set reminders will be displayed on a scrollable ‘current reminder’ page.
Each reminder will have an ‘edit’ option. If no ‘reminder’ is set the page will display a ‘you have not set any reminders’ message.
The screen will show all reminders, including any previously set within individual test apps.

Edit / set reminders:

Users can set time and day and select a range of ‘regular repeat’ rules:
daily, every x days, weekly, monthly, yearly, one off.
The default behaviour is daily.
General UX behaviour to be as per developed templates. V1 Wireframe behaviour is a testing baseline only.

Set Status and Alerts

Individual alert settings
These and current reading status can be viewed by selecting the test tab for the relevant test. The ‘set alerts page from individual tests will be displayed. Default values etc.. remain as per the individual test.
Alert profiles will remain stored in the same user database record locations as per the individual tests.

Life Chart alerts:

Users (subject to permission) will be able to create ruled based on combining the alert status of the individual tests. These rules will be stored in a single ‘alert profile’ for the life chart itself.

In ‘prescribed’ and ‘recommended from CMP scenarios all alert profiles can be locked.

Life chart info page
This will be viewable at any time from the setting menu. As per templates.

* + - * 1. Share functionality

				Note: this behaviour will become part of V1 standard test behaviour.
				Demonstration templates also exist in V1 Homepad design so no rewireframes are required.
				2. General system behaviour:

				Share functionality gives the homepad user ultimate control over who can see their wellness data and receive alerts. Only selected WellTogether users can do this.
				3. Mini Status display/control (test detail page)
				4. Private:
				No one other than the homepad user can access display or receive alerts
				5. Shared:
				As soon as a single new contact has been given sharing access, the ‘shared’ button/status indication will display the word ‘shared’
				6. Default
				The default status of the share control is ‘private’ with a clear visual indication of ‘privacy’
				7. Detail Share status/controls

				Accessed by pushing the share button (as per templates). This will show, via address book style tiles in a scrollable field, who has the following viewing privileges:

View information

Receive an alert

Default = invitation message as per templates.

* + - * 1. Add a sharing partner

				This control gives access to an ‘address book’ style search page to find a partner. With the same browsing options as V2 homepage.

				Once the contact is selected, their access privileges (view only or receive alerts) can be selected (in the Life-Chart, this can be done test by test).

				Access privileges can be granted to groups as well as individuals, provided these are in the address book.
				2. Building an alert list

When multiple partners can receive alerts, they can be assigned as ‘1st, 2nd respondent etc.. via the UX (as per templates / wireframe update)
Alerts will be sent to each respondent in turn, with a set ‘wait’ delay in between.

* + - * 1. Added notifications

Viewing rights

Other portal users who have been invited to share information will receive a message with a hot link to where the test parameters can be viewed.

Alerts

Other portal users who have been invited to share information will be given the option to decline the invitation.

* + - * 1. Remove a sharing partner

				Any sharing partner can be removed from the list at any time.
				2. Override behaviour

				If a test has been ‘prescribed’ via the CMP – the default permission mode is set to ‘shared’.
				You the user is shared with is displayed in the shared status page.

User consent

If user consent is needed – notifications to this effect will be pushed to the user as part of the setup process.

* + - * 1. Other portal behaviour

CMP V2 specification will include control over ‘prescription and consent logging

FFP V2 specification will include any updates required to deal with receipt of viewing and alert invitations. (including the option to decline receiving an alert)