

E-Care @ Home

WP1: Functional Requirements Specification

D1.2.1: Life Chart

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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 |
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1. Overview:   
     
   In the terminology of the WellTogether service system, the Life tracker is a ‘Metatest’: a viewing and control tool that gives users combined access to up to 5 individual tests of their choosing. It does not fully replace all the functionality of individual tests, and the relationships between individual tests and the service user databases remain unchanged.
2. Main configuration functionality
   1. Test Library availability
      1. First use mode  
         The life-chart will appear at the top of the master library list, under a new heading called (provisionally) ‘tools’. It will display as a large ‘full width’ tile the test Name = ‘Life Chart Visualiser’ with a strapline. 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.
      2. Further use mode  
         If the Life Chart has already been used, this will be indicated in the tile.
      3. Other libraries:   
         ‘pre configured’ Life-Charts will also be available in ‘institution specific’ test libraries of care management portal users.
   2. Adding & configuring a Life Chart  
        
      After the Life Chart has been selected from the test library (by pushing ‘add’ in the test info view) the user is immediately presented with configuration options. The user record is populated with a default ‘configuration profile’ (see next section). This default record stays as the profile unless correctly overwritten at any time. At any time after pushing ‘add’ and exiting any of the Life-Chart options, the Life Chart will appear as a large full width tile at the top of the ‘my tests’ area of the Wellness Page of the Homepad.   
      1. User Configuration
      2. Life Chart Configuration Profile (CP)  
         As soon as a Life chart is ‘added’ a configuration profile exists in an individual’s personal service user record. The CP will have the following main components.
      3. Custom Name:   
         Unless locked as part of a ‘pre-configuration’ scenario, the default name ‘Life Chart can be changed at any time by the service user. Changes should not affect the rest of the configuration.
      4. Connected tests
         1. Unless prevented as part of a ‘pre-configuration’ scenario, the Life-Chart user can select individual tests which will become ‘connected’ to the Life-Chart (LC). This connection will give the Life Chart (LC) parallel access to the data for individual ‘selected’ tests but will in no way duplicate the actual test data for any individual test. The user can add and remove ‘connected test’ status at any time without affecting the service user data record of the values for the individual test.
         2. The user can choose tests to connect from either tests already in use or new individual tests in the master library.
      5. Presentation profile  
         Each individual test connected to the Life-Chart will have a selection of properties that only apply to the presentation of information within the Life chart. Presentation profile variables include properties such as presentation order, graph colour, graph type’ etc.. One of 5 ‘default presentation sets’ will be assigned each time an individual test is connected. These presentation sets can be edited later by the user as per wireframes and templates. The default presentation profile will be specified in the templates.
      6. Pre-configuration:
         1. ‘Pre-configuration’ profile: (PCP)  
            Like homepad users, Institutions operating the Care Management Profile will be able to create ‘institutional customisations’ of the values in the LC configuration profile. These have two main differences to user configurations:
         2. Multi user profile  
            ‘Pre-configuration’ profiles can be saved in libraries specific to the institution and reused for multiple users.
         3. Edit controls  
            Pre-configuration can selectively ‘lock’ either of the 3 main components of a user configuration profile.
         4. When invoked, ‘pre-configuration’ profiles will replace the ‘master library default’ as the ‘default service user record’.
      7. Recommendation:
         1. By Friends & Family portal user : (new std V2 test behaviour)  
            FFP users can select the life chart from 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.
      8. 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 ‘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)