My Wellbeing Kit

Requirements Traceability Matrix

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| --- | --- |
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# 1 Legend

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| --- | --- |
| **Type** | **Description** |
| **HW** | Hardware Requirement |
| **SW** | Software Requirement |
| **NTH** | Nice to Have |
| **D(#n)** | Duplicate of entry #n |
| **SWC** | Software Constraint |
| **P** | Performance Requirement |
| **DR** | Derived Requirement |

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# 2 Requirements Trace Matrix

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| --- | --- | --- | --- | --- | --- |
| Entry # | Para # | Requirements | Type | Release | Use Case |
| 1 | 1.3 | Involving the design and implementation of an application suitable for deployment on Android and IOS smartphone operating systems. | SWC | 1, 2 |  |
| 2 | 3.1 | Users will gain access to their cards by first selecting the expandable menu located on the lower left hand side of the applications screen. From the expandable menu users will have the ability to navigate to different areas of the application, this includes the Wellbeing Cards, Journaling System, Helpful Resources and the Settings pages. | SW | 1, 2 | UC2\_User\_Selects\_CardsMenuOption |
| 3 | 3.1 | The first option within the menu expandable menu system will be that of the Wellbeing cards menu. In an attempt to ensure ease-of-use the application on launch will first open on this screen, as the aim is for the user to primary interact with this system during their time within the application. | SWC2 | 1, 2 |  |
| 4 | 3.1.1 | The user will also be offered the ability to flip their cards over rather than be limited to a simple swipe left or right viewing function. | SW | 2 | UC4\_User\_Flips\_Card |
| 5 | 3.1.1 | Transitioning from a cards image to the text field on the back will utilize an animation for the flipping of each card. | SWC4 | 2 |  |
| 6 | 3.1.1 | The design for the animation will be set to meet the standards of a professionally animated application, being sure to indicate to the user a simplistic cue that each of the users interactions with the cards have been registered. | SWC4 | 2 |  |
| 7 | 3.1.1 | This dynamic, visual, feature will be presented to the user through the animation of the Wellbeing Card jumping up from the background of the screen towards the user and completing a single flip, exposing the back of the card. | SWC4 | 2 |  |
| 8 | 3.1.2 | Upon flipping a card over the user will be presented with a space in which they have the opportunity to note down their ideas, emotions and thoughts in reference to that particular card. | SW | 1, 2 | UC8\_User\_Writes\_CardDescription |
| 9 | 3.1.4 | The My Wellbeing Kit application will also offer the user the ability to duplicate cards. | SW | 2 | UC9\_User\_Duplicates\_Card |
| 10 | 3.1.4 | Each new duplication will be distinguishable to the user by a small coloured icon indicated to the user when within the Wellbeing Card interface. | SWC9 | 2 |  |
| 11 | 3.1.5 | Users shall be able to flag cards as favourites, adding them to an additional list of ‘favourite cards’. | SW | 1，2 | UC11\_User\_Favourties\_Card |
| 12 | 3.1.5 | A toggleable button will be displayed when viewing cards which will allow for the flagging of the cards as a favourite and unflagging them when pressed again. | SWC11 | 1，2 |  |
| 13 | 3.1.5 | Favourite cards will be presented first in the list of Wellbeing cards. | SWC11 | 1，2 |  |
| 14 | 3.1.5 | The option to toggle this option off will mean that the list can stay as relevant and concise as possible. | SWC11 | 1，2 |  |
| 15 | 3.2 | The user shall be able to add custom cards to their library. | SW | 2 | UC15\_User\_Creates\_CustomCard |
| 16 | 3.2 | These cards will be viewed and accessed alongside the regular selection of cards. | SWC15 | 2 |  |
| 17 | 3.2.1 | This process will involve the user creating a title for the card and selecting an image for its background. | SWC15 | 2 |  |
| 18 | 3.2.1 | This will be achieved by selecting an option from the main menu, taking the user to another page where the title and image fields will be found. | SWC15 | 2 |  |
| 19 | 3.2.1 | Selecting the title field will prompt the user to enter the text they wish to be the title. | SWC15 | 2 |  |
| 20 | 3.2.1 | Here the user can select from the pre-existing artwork that the default series of cards use or browse the photo gallery on their phone and select image files from there. | SWC15 | 2 |  |
| 21 | 3.2.1 | Files will not be available for use unless they are of a particular image file extension. | SWC15 | 2 |  |
| 22 | 3.2.1 | This includes, but is not limited to .png .jpeg .jpg .bmp etc. | SWC15 | 2 |  |
| 23 | 3.2.1 | Once a file has been successfully imported into the My Wellbeing Kit application the user will then be given a few simplistic editing tools with which they can crop, rotate and adjust the position of the picture. | SWC15 | 2 |  |
| 24 | 3.2.1 | Images that are uploaded that exceed 350x200px will be scaled down to the appropriate size and vise-versa for smaller images. | SWC15 | 2 |  |
| 25 | 3.2.1 | Upon the completion of editing the new card, the user can select save or cancel. If save is selected they will then see their newly created card alongside the selection of default cards. | SWC15 | 2 |  |
| 26 | 3.2.1 | Otherwise, in the case where cancel is selected, the new card will be discarded and the the user will see existing selection of cards again. | SWC15 | 2 |  |
| 27 | 3.2.2 | The user shall be able to edit cards that they have added to the application. | SW | 2 | UC27\_User\_Edits\_CustomCard |
| 28 | 3.2.2 | Toggling an edit option to on will make selecting a card take the user to an edit card screen, rather than flipping the card as would normally occur. | SWC27 | 2 |  |
| 29 | 3.2.2 | From this screen they can either select the image to change it to another or select the text for editing, with the option to delete the custom card also found here. | SWC27 | 2 |  |
| 30 | 3.2.2 | A save button can be selected to save any changes and return the user to the cards screen where they will see any changes that have been made. | SWC27 |  |  |
| 31 | 3.3.1 | The user shall be able to create a new journal entry (see, Appendix 4.1) from the journal screen, accessible through a clearly visible button. | SW | 1，2 | UC31\_User\_Creates\_JournalEntry |
| 32 | 3.3 | This function will be accessible through an option on the home screen menu. | SWC31 | 1，2 |  |
| 33 | 3.3 | Once selected the user will be presented with the ability to ‘create a new journal entry’ or ‘view [a list of] previous journal entries’. | SWC31 | 1，2 |  |
| 34 | 3.3.1 | Upon selection of the button the user will be prompted to fill out a journal entry in the blank form provided. | SWC31 | 1，2 |  |
| 35 | 3.3.1 | The form will accept the input of only standard text characters, issued to the form by the user through the on-screen keyboard. | SWC31 | 1，2 |  |
| 36 | 3.3.1 | The user will then be able to save journal entries to the device. | SWC31 | 1，2 |  |
| 37 | 3.3.1 | Entries will be stored locally on the user’s device for quick retrieval by the application should the user request to see their entries at a later date. | SWC31 | 1，2 |  |
| 38 |  | Saved entries will make use of persistent data storage. | SWC31 | 1 |  |
| 39 | 3.3.2 | The user shall be able to make changes to already saved journal entries. | SW | 2 | UC38\_User\_Edits\_JournalEntry |
| 40 | 3.3.2 | This feature will be accessible to the user while they are viewing an entry. | SWC38 | 2 |  |
| 41 | 3.3.2 | Through this option user will be able to edit the selected journal entry and make minor changes or delete the entry entirely. | SWC38 | 2 |  |
| 42 | 3.3.3 | Each journal entry when saved shall include the date of creation. | SWC31 | 1，2 |  |
| 43 | 3.3.3 | Journal entries should automatically include the date they were initially created with no extra input required from the user. | SWC31 | 1，2 |  |
| 44 | 3.3.4 | Upon creating a journal entry the user shall be able to select a ‘keyword’(see, Appendix 4.1) from a predetermined ‘dictionary of emotions’(see, 3.1.5). | SW | 2 | UC43\_User\_Selects\_Keyword |
| 45 | 3.3.4 | The categorisation option will be available through a drop down box located near the top of the new entry form. | SWC43 | 2 |  |
| 46 | 3.3.4 | This option will prompt the user to select a ‘keyword’ that best describes how they are feeling. | SWC43 | 2 |  |
| 47 | 3.3.5 | The user shall be able sort saved journal entries by ‘keyword’, organised by date with most recent first. | SW | 2 | UC46\_User\_Sorts\_JounralEntries |
| 48 | 3.3.5 | An option shall be available on the journal screen to select one of the predetermined keywords for filtering the entry list. | SWC46 | 2 |  |
| 49 | 3.3.6 | Upon opening the journal for the first time, the user will be presented with an option which, if enabled, will require them to enter a password before accessing the journal feature of the application. | SW | 2 | UC48\_User\_Creates\_Password |
| 50 | 3.3.6 | The user will be asked to enter a password, then re-enter the password to confirm the first entry. | SWC48 | 2 |  |
| 51 | 3.3.6 | From this point onwards, when accessing the journal the user will be prompted to enter their password. | SWC48 | 2 |  |
| 52 | 3.3.6 | Successfully entering the password will result in the user being taken to the journal feature of the application. | SWC48 | 2 |  |
| 53 | 3.3.6 | The password feature can be enabled or disabled at a later date through the settings menu. | SWC48 | 2 |  |
| 54 | 3.3.6 | If the user has chosen to disable the password lock, they will be prompted for their password to complete the action. | SWC48 | 2 |  |
| 55 | 3.3.6 | Conversely, if the user is enabling the password they will have to go through the process of entering and re-entering the password to confirm it. | SWC48 | 2 |  |
| 56 | 3.4 | This is achieved by putting within the user’s hand a powerful library of words with which they can easily navigate through and find descriptors for categorizing their feelings. | SW | 2 | UC55\_User\_Selects\_EmotionalBank |
| 57 | 3.4 | The hope is to develop and deliver this functionality through two mechanisms within the application (as 3.4.1 & 3.4.2). | SWC55 | 2 |  |
| 58 | 3.4.1 | Using this ‘Tree of Words’(see, Appendix 4.1) a user will select from a series of very general feelings, such as ‘happy’, ‘sad’, ‘angry’, etc. | SWC55 | 2 |  |
| 59 | 3.4.1 | A word selected by the user will then suggest an assortment of synonyms that may be better suited to the user’s emotional state. | SWC55 | 2 |  |
| 60 | 3.4.2 | The second system, the ‘Descriptor prompt’ (see, Appendix 4.1), will simply be an expansion upon the idea of predictive text prompting used in modern day messaging and texting software will be available when users enable the ‘Descriptor prompt’ feature. | SW | 2 | UC59\_User\_Enables\_DescriptorPrompt |
| 61 | 3.4.2 | This feature can be set up within the applications settings. | SWC59 | 2 |  |
| 62 | 3.4.2 | Once enabled flagged words such as ‘happy’, ‘sad’, ‘angry’, etc. that have been entered into a journal entry will instead prompt the user with a suggested synonym giving them a greater vocabulary of words with which they can use to more accurately record thoughts and feelings. | SWC59 | 2 |  |
| 63 | 3.5 | The users shall be able to view a list of helpful resources related to health and wellbeing. | SW | 1, 2 | UC62\_User\_Views\_HelpfulResources |
| 64 | 3.5 | This provides an expandable list of resources that will only be a button press away from the main menu for users who may not be sure what to search for to find such information online. | SWC62 | 1, 2 |  |
| 65 | 3.5.1 | The option to add extra resources, including, but not limited to, phone numbers, web URLs and email addresses, will be accessed from the helpful resources screen via a button. | SWC62 | 1，2 |  |
| 66 | 3.5.1 | Selecting the option will create a new blank entry at the bottom of the list, and prompt the user to enter text. | SW | 1，2 | UC65\_User\_Adds\_HelpfulResource |
| 67 | 3.5.1 | The field will accept input from the on-screen keyboard. | SWC65 | 1，2 |  |
| 68 | 3.5.1 | The new entry will automatically be saved after selecting the save button. | SWC65 | 1，2 |  |
| 69 | 3.5.1 | The user will be able to see the new entry in the list after selecting the save button. | SWC65 | 1，2 |  |
| 70 | 3.5.1 | Entries will be stored locally on the user’s device for fast retrieval by the system when users access their helpful resources. | SWC65 | 1，2 |  |
| 71 | 3.5.2 | The user shall be able to edit entries in the list to keep them up to date, or remove old entries if they have become redundant or unnecessary. | SW | 1，2 | UC70\_User\_Edits\_HelpfulResource |
| 72 | 3.5.2 | This will be done by toggling the edit button, when toggled on, the screen will enter an edit mode which well let users reorder, edit or delete entries. | SWC70 | 1，2 |  |
| 73 | 3.5.2 | Tapping on existing entries will allow the text in them to be edited and saved. | SWC70 | 1，2 |  |
| 74 | 3.7.1 | Additional components such as a feature that allows for adding music to cards would give users greater options within the application; helping them to expand on and personalise their experience to be one that perfectly suits their preferences. | NTH | 3 |  |
| 75 | 3.7.2 | By also adding different kinds of custom functionalities, such as different animations, visual effects and and audio cues the application can be personalised to the users preferences. | NTH | 3 |  |