**FUNCTION TEST CASES**

**File history**

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**About this Test Cases**

Test cases file is written based on:

+ System Design Specification - ver 0.1.5

+ System Feature formulae - ver 0.1.2

**Special Symbols used:**

**“@”** used before a word to describe this is a parameter that should be changed when execute the test case.

**References**

+ System Design Specification - ver 0.1.5

+ System Feature formulae - ver 0.1.2

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1. UNREGISTERED USER
   1. Homepage
      1. Link and its functions in Homepage

Test Objective:

check elements in page

Expected Outcome:

**+**  there are links for: Registration, Sign In, Forgot account, Forgot password, FAQs, Term and Conditions.

+ each link works

Registration> open Registration page

Sign in> Login service

Forgot account > Forgot username page

Forgot password> forgot password page

Faqs> open FAQs page

Term and Condition> open Term and Conditioin page

+ Navigation:

Mint logo picture> click, go to Homepage

* 1. Login service
     1. Login success

Test Objective:

check actions when login successfully

Test procedure:

Open HomeCare website

In Login section, type in a correct username/password

Click Log in button or hit Enter

Expected Outcome:

There’s a welcome message

There’s a first use guide popup

There’s an alarm notification popup

It leads to user homepage

* + 1. Login Fail: Wrong username/password

Test Objective:

Check actions when login fail with wrong username/password

Test procedure:

Open HomeCare website

In Login section, type in a wrong username/password

Click Sign in button or hit Enter

Expected Outcome:

A notification shows (“**The User ID and/or Password you entered is invalid or you are not registered**”)

* + 1. Login Fail: Lack of username/password

Test Objective:

Check actions when login without a username or password

Test procedure:

Open HomeCare website

In Login section, not input username/password

Click Sign in button or hit Enter

Expected Outcome:

There’s a notification (“**Please enter a username.**”)

There’s a notification (“**Please enter a password.**”)

* + 1. Login Fail: Max try exceed

Test objective:

Check actions when enter wrong username/password many times

Expected Outcome:

A notification show **“Maximum try exceeded. Your account has been locked for 1 hour. Please try again later.”**

* 1. Forgot username page
     1. Elements in Forgot username page

Test Objective:

Check elements in forgot username page

Expected Outcome:

There’s a guide tell user how to get the username

There are 4 input fields: First name/Last name/Date of birth/ Zipcode

There’s a submit button

* + 1. Submit Forgot Username Form with correct data

Test Objective:

To check Submit actions in Forgot Username Form when correct data input (in all 4 fields)

Test procedure:

Open Forgot username page

Input a correct data into: First name/ Last name/Date of birth/ Zip code

Click Submit button

Expected Outcome:

There’s a success notification **“Your username was sent to your email.”**

Redirect to Homepage (log-in page) (in [5] seconds for example)

There’s a Forgot Username Email sent to user email

Email Received:

The requested username is in the email

There’s a guide tell user what to do next in the email

* + 1. Submit Forgot Username Form with wrong data

Test Objective:

Check Submit actions in Forgot Username Form when wrong data input (in 1 of 4 fields)

Test procedure:

Open Forgot username page

Input a wrong data into: First name/ Last name/Date of birth/ Zip code

Click Submit button

Expected outcome:

There’s wrong input notification (“**Invalid date of birth.**”)

There’s wrong input notification (“**Invalid zip code.**””)

There’s wrong input notification (“**Record not on file.**””)

* + 1. Submit Forgot Username Form without input data

Test Objective:

Check Submit actions without data input (in 1 of 4 fields)

Test procedure:

Open Forgot username page

Not Input one of: First name/Last name/Date of birth

Click Submit button

Expected outcome:

There’s input notification (“**Please enter your first name.”**”)

There’s input notification (“**Please enter your last name.”**)

There’s input notification (“**Please enter your date of birth.”)**

* 1. Forgot password page
     1. Elements in Forgot password page

Test Objective:

Check elements in page

Expected Outcome:

There’s a guide tell user how to get the password

There are input fields: User name/Date of birth

There’s a Submit button

* + 1. Submit Forgot password form with correct data

Test Objective:

Check Submit actions when correct data input (correct data in all fields)

Test procedure:

Open Forgot password page

Input a correct data into: User name/Date of birth

Click Submit button

Expected Outcome:

There’s a success notification: **“Your password hint was sent to your email.”**

Redirect to homepage after 5 seconds

There’s a Forgot Password Email sent to user email

Email Received:

There’s password hint in the email

There’s a guide tell user what to do next

* + 1. Submit Forgot password form with wrong data

Test Objective:

Check actions when wrong data input

Test procedure:

Open Forgot password page

Input a wrong data into: User name/Date of birth

Click Submit button

Expected Outcome:

There’s wrong input notification. (“**Invalid date of birth.**”)

There’s wrong input notification. (“**Record not on file.**”)

* + 1. Submit Forgot password form without data: User name/Date of birth

Test Objective:

Check actions when wrong data input

Test procedure:

Open Forgot password page

Not Input data in one of: User name/Date of birth

Click Submit button

Expected Outcome:

There’s input notification. (“**Please enter your username.”**”)

There’s input notification. (“**Please enter your date of birth.**”)

* 1. Registration
     1. Elements in Registration page

Test Objective:

Check elements in registration page

Expected Outcome:

All fields can input data

Require fields noted

Buttons: Add more/Register

* + 1. Validation of Input Data in Registration Fields

Test Objective:

Check inputting data if it meets requirements

Expected Outcome:

List of Fields in page:

|  |  |
| --- | --- |
| **Field Name** | **Expected** |
| Create HomeCare username | + Is a Required field  + live check: Check the availability of a username on the system at the time user input data or push TAB on keyboard  ++ If username is available, show the notification:  **“Username available” (in green color)**  ++ If username is not available, show the notification:  **“Username unavailable”(in red color)**  + live check: Check username requirements:  ++ Username requirements:  content: must content only Latin letters and numbers.  length: from 6 to 50 characters  + +Show a tooltip next to text box:  **“Username contents only letters and numbers,**  **Must be 6 to 50 characters”**  ++ If input username does not meet requirement, a notification shows below the text box: **“Username not meet requirements”** |
| Create HomeCare password | + is a required field  + live check: Check password requirements:  ++ Password requirements:  content: all keyboard character  not content: username/firstname/lastname/DOB  length: 4 to 14 characters  ++Show a tooltip next to text box:  **“Password must be 4 to 14 characters.**  **Not content username, first name, last name and date of birth.”**  ++ If input password does not meet requirement, a notification shows below the text box: **“Password not meet requirement.**” |
| Confirm password | + is a required field  + Live check: check if it is the same as password entered above  ++ If input password not the same as the first entered, a notification shows below the text box: **“Password mismatched”** |
| Password hint | + Password hint requirements:  Content: all keyboard character  Not content: username/first name/last name/date of birth/password  + Show a tooltip next to text box:  **“Use a password hint to remind your password.**  **Password hint should not content your password, username, first name, last name, date of birth. “**  + If input password hint content the password, a notification shows below the text box: **“Password hint must be different from password”** |
| Date of birth | + is a required field  + Date format: US format, mm/dd/yyyy  + Validation: it’s a correct day, eg. 30/2/2013 is not a valid date. There’s notification: **“Invalid Date”**  + Date requirement: e.g.user of this system must be 01-200 years old. There’s notification: **“User must be 01 to 200 years old”** |
| Email address | + Input data is a valid email address format. 3 parts of an email address: [name]@[domain name]  Eg. [abc@mint-corp.com](mailto:abc@mint-corp.com)  + Notification: **“Invalid email address”** |
| Confirm email address | + the same 1st entered  + notification: **“Email address mismatched”** |
| Registration code | + is required field  + is a Combination of member type and random number  + 3 types: PRIMARY (PRI)  MONITOR (MON)  PARTIAL (PAR) |
| Address | Country  ( all require countries name are listed)  County (Check  all county listed in selected country)  Home phone  ( the correct format for selected country/county, there’s notification)  Mobile phone  ( the correct format for selected country/county, there’s notification |
| **Emergency Contact** | there are 4 input fields: Name/Email/Phone/Address  all field can input data |
| Add more button | + another contact section appear  + new appear section have header with number increasing. E.g. Emergency contact 2  + new section has 4 input field and all field can input data  Max emergency contact  ( max set is 3,  >there’s notification) |
| Captcha | + Picture contents common characters that can input in below textbox  + refresh button reloads a new picture |

* + 1. Submit Registration form with correct data

Test Objective:

Check actions when correct data input in all fields

Test procedure:

Open Register page

Input all fields with correct data

Click Register button

Expected Outcome:

A new username was created on the system

All Info was save to that username

There’s a successful notification: **“Your account has been created. Please check your email for registration confirmation.”**

Redirect to homepage after 5 seconds.

There’s a confirmation Email sent to user mailbox

* + 1. Submit Registration form with wrong data

Test Objective:

Check actions when wrong data input (in require fields)

Test procedure:

Open Register page

Input fields with wrong data

Click Register

Expected Outcome:

There’s a Fail notification **“Please check the information in Red”**

There’s a red-color notification below each requirement field which is wrong data input

(See 1.5.2 for Input Data Validation)

* 1. Registration/Confirmation Email
     1. Registration Confirmation Email content

Test Objective:

Check Confirmation Email content

Expected Outcome:

Email format

There’s an Sender info: […..]

There’s an subject info: [Confirmation]

There’s an Mint signature info: […]

Confirmation link

There’s a confirmation link in the received email

It goes to the notification page when clicked

* + 1. Activate Confirmation link success

Test Objective:

Check actions when activate successful

Test procedure:

Open email

click the confirmation link to activate account

Expect Outcome:

There’s a success notification page appear **“Your account is activated”**

Redirect to User Homepage.

There’s a guide tell user what to do next

* + 1. Activate Confirmation link fail

Test Objective:

Check actions when activate fail

Expect Outcome:

There’s fail notification page

Fail notification explain Reasons why fail

+ failed because link used more than once **“Your account is already activated”**

+ failed because link expired (e.g. link expire 1 week) **“The activation link expired”**

Redirect to Login page.

There’s a guide tell user what to do next

1. REGISTERED USER
   1. User home page
      1. Elements in User Home page

Test Objective:

Test elements in User home page

Expected Outcome:

Mint Logo picture: click to go to user homepage

|  |  |
| --- | --- |
| **Homepage notification** | **Requirements** |
| new alarm notification | + show number of alarm  + red color if there is unread alarm messages  + picture link to Alarm page |
| new message notification | + show number of new message  + red color if there is unread messages  + picture link to Message inbox |

Left navigation works

|  |  |
| --- | --- |
| **Left Navigation** | **Actions** |
| Home | Go to User Home page |
| My profile |  |
| > user information | Go to user information page |
| > Change password> | Go to change password page |
| >Authorized users> | Go to Authorized users management page |
| Reports> Track my health> | Go to Features page |
| > Track others> | Go to Track Others Homepage |
| Message center |  |
| >Compose> | Open Compose Message Editor |
| >Inbox> | Go to Inbox page |
| >Sent Messages > Sent message page | Go to Sent messages page |
| >Alarm Messages > Alarm message page | Go to Alarm messages page |
| Trash > Trash page | Go to Trash page |
| My account |  |
| >Billing Account Summary | Go to User Billing Account Summary page |
| >Coverage Details |  |

User Home Footer

|  |  |
| --- | --- |
| Home link | Go to User Home page |
| Site map link | Go to site map of the website |
| Term and Conditions link | Show Term and Conditions page |
| Log out link | Show the confirmation “ Do you want to logout the system?”  A check box: “Don’t ask me next time”  Confirmation action:  Click YES> log out current user  Click NO>stay on the current page  Check box actions:  Click Check box, system will remember logout setting of current user. |

* 1. User Profile/User Information page
     1. Elements in User Information page

Test Objective:

Check the elements in User information page

Expected Outcome:

All fields are shown with information

There are requirements for specic fields as table below:

|  |  |
| --- | --- |
| **Fields with requirements** | **Requirements** |
| First name | grey and unable to edit |
| Last name | grey and unable to edit |
| Date of Birth | grey and unable to edit |
| Gender | grey and unable to edit |
| User type | grey and unable to edit |

There are buttons: Edit/Cancel

The buttons do these actions:

|  |  |
| --- | --- |
| **Buttons** | **Actions** |
| Edit | Go to Editing User information page |
| Cancel | Go back to Home page |

* + 1. Editing User information page

Test Objective:

Test editing each piece of User information

Test Procedure:

From User information page, click Edit button

Expected Outcome:

These fields can be edited.

|  |  |
| --- | --- |
| **Fields** | **Requirements** |
| Email | Check input data is a valid email address format. Eg. [abc@efg.com](mailto:abc@efg.com) when user input data |
| Address |  |
| City |  |
| Country | dropbox show all required countries |
| State | dropbox show all states of selected country |
| Zip code |  |
| County |  |
| Home phone | the correct format for selected country/county  US format: ten number (XXX-XXX-XXXX) |
| Mobile phone | the correct format for selected country/county  US format: ten number (XXX-XXX-XXXX) |

* + 1. Saving Edited User information

Test Objective:

Test Save button in Editing User information

Test Procedure:

From Editing User information page

Edit information

Click Save button

Expected Outcome:

All edited information are saved to database

Go back to User Information page

* 1. User profile/Change Password
     1. Elements in Change Password page

Test Objective:

Test elements in Change password page

Expected Outcome:

There are Fields and requirements as table below:

|  |  |
| --- | --- |
| **Fields** | **Requirements** |
| Current password |  |
| New password | + Password requirements:  content: all keyboard character  not content: username/firstname/lastname/DOB  length: 4 to 14 characters  +Show a tooltip next to text box:  **“Password must be 4 to 14 characters.**  **Not content username, first name, last name and date of birth.”**  + If input password does not meet requirement, a notification shows below the text box: **“Password not meet requirement.**” |
| Confirm new password | + If input password not the same as the first entered, a notification shows below the text box: **“Password mismatched”** |
| Password hint | + Password hint requirements:  Content: all keyboard character  Not content: username/first name/last name/date of birth/password  + Show a tooltip next to text box:  **“Use a password hint to remind your password.**  **Password hint should not content your password, username, first name, last name, date of birth. “**  + If input password hint content the password, a notification shows below the text box: **“Password hint must be different from password”** |

* + 1. Saving new password/password hint success

Test Objective:

Test Save button with correct input data

Test procedure:

Open Change password page

Enter current password

Enter New password

Enter New password again

Click Save

Expected Outcome:

New password saved

There’s a notification tell user new password is saved successful: **“Your password has been changed successfully”**

Click OK to Go back User Information page

* + 1. Saving new password/password hint fail

Test Objective:

Test Save button when with wrong input data

Expected Outcome:

A notification explains why fail

(See 2.3.1)

A guide tells user what to do next

* 1. User Profile/ Authorized Users page
     1. Sections in authorized users page

Test Objective:

Check elements in Authorized users page

Expected Outcome:

There are 3 sections:

Section 1: A List of current authorized users

Delete user button

Section 2: Authorize a user

Add user button

Section 3: Invite a member

Invite user button

* + 1. Delete an authorized user

Test objective:

Test Delete function

Test procedure:

Select an authorized user in the list, click Delete button

Expected Outcome:

That deleted user removed from the list

That deleted user can NOT see and track current user health

* + 1. Authorize a user

Test objective:

Test Authorize function

Test procedure:

Enter a username in the text box, click Add button

Expected Outcome:

In Text box when input data: a Notification shows input data is an available username or an invalid username

Authorized user appear in the current authorized user list

That authorized user can see and track current user.

There’s success notification when Add successful

There’s fail notification when Adding fail

Explain why fail (user already in the list/ user not exist/ user not activate/user being deactivated)

* + 1. Invite new member

Test objective:

Test Invite new member function

Test procedure:

Enter an email address in text box

Click drop box to choose a member type

Click Invite button

Expected Outcome:

If an invalid email is entered, show a notification **“The email is invalid”**

If input email was registered with Homecare System, show a notification **“This email address has already registered with HomeCare System”**

Drop box show 3 member type

There’s an email sent to invited member

* 1. Member Invitation Email
     1. Invitation Email

Test objective:

Test Member Invitation email content

Expected outcome:

Email format

There’s a Sender info

There’s a subject info

There’s a Mint signature info

There’s an Invitation link

* + 1. Member Invitation Link

Test objective:

Test actions of link in the member invitation email

Test procedure:

Open invitation email, click on the link

Expected outcome:

Click link go to Registration page

A registration code automatically filled in the Register Code field

The registration progress occurs normally

* 1. Track my health page
     1. Track my health/Features list

Test Objective:

Check the Elements in Track my health page

Expected Outcome:

Page shows 9 thumbnail pictures descript 9 features

There are Titles Below each thumbnail

Click each thumbnail go to each feature page

There are 2 buttons: Global Settings/Back to Home

Each button work

Global> go to Global Setting page

Back to Home > go to Home page

* + 1. Track my health/Global Settings page

Test objective:

Test User Global Settings page

Test procedure:

1. From left navigation panel, click “Reports” menu then “Track my health” menu to open “Track my health” page
2. Click a “Global Settings” icon below the features list
3. Make change to settings
4. Click “Save” to save settings
5. Click “Cancel” do discard settings

Expected Outcome:

1. Can go to Features list page
2. Can click the button. The Global setting page appears
3. Can see current settings for current user.

There’s 1 setting category for: Measurement system

There are 2 radio buttons for Measurement system setting: “Metric” or “Us”

Radio button works. Can select different settings: Metric or US

1. Save checked value and stay on page.

Go back to Global Setting next time to see if new settings are saved.

New settings should affect to all features for current user. E.g. If user selects US measurement system, temperature monitoring should use Fahrenheit instead of Celsius, distance should use Miles instead of Kilometer…

1. Old settings are kept. New settings are discarded. Go back to Track My Health page

* + 1. Track my health/Report pages

Test objective:

Test web layout and other elements in a report-page

Test procedure:

1. From left navigation panel, click “Reports” menu then “Track my health” menu to open “Track my health” page
2. Click a @Feature icon to go to that @Feature report page

Expected outcomes:

This layout is applied to all report pages (graph report and table report) of all features

1. Can go to “Track my health” page
2. A webpage shows graph report for that feature:

Page title: “@Feature – Graph report”

Top navigator:

Show current place “Track My Health > @Feature”

Click “Track my health” to go back to Track my health page

“Print” icon and “Help” icon shows on the right of top navigator

Click “Print” icon to open Print function for current display

Click “Help” icon to open Help page of current page/topic

Top area:

Show introduction of current page as below:

“Select GRAPH or TABLE buttons to see @Feature Report.”

Show 2 buttons: “Graph” and “Table”

Click “Graph” button to show report in graph

Click “Table” button to show report in table

Main/Report area: show content of the report

Recommendation area:

Area Title: “Diagnosis & Recommendations”

Show diagnosis results or/and recommendations. Info changes according to the data

Bottom area: show “Settings” button and “Back to Track my health” button

|  |  |
| --- | --- |
| **Buttons** | **Requirement/Actions** |
| Settings | Click to go to “Body measurement monitoring – Settings” page |
| Back to Track My Health | Click to go back to “Track my health” page |

* 1. Feature 01: Temperature monitoring
     1. Temperature monitoring/Graph report

Test Objective:

Test Graph report for Temperature monitoring feature

Test procedure:

1. From left navigation panel, click “Reports” menu then “Track my health” menu to open “Track my health” page
2. Click “Body measurement monitoring” icon to go to “Temperature monitoring – Graph report” page
3. From popup, select the From Date and To Date
4. Click “Select” to start drawing graph report
5. View graph report of Temperature monitoring feature

Expected outcomes:

1. Can go to “Track my health” page
2. Show “Temperature monitoring – Graph report” page

There is a popup showed “Select date to draw chart”

1. Be able to select From Date and To Date

Be able to enter value manually into From Date and To Date

Data entered successfully

1. Entered date are selected, graph report starts to display
2. A graph shows on the webpage

If there is no data on selected dates, a notification shows: **“You have no data to graph”**

Graph shows:

|  |  |
| --- | --- |
| Data | + the correct data of current user  + skin temperature, ambient temperature, low, high, and very high thresholds corresponding current measurement system (US/Metric)  + Show notification if there’s no data to display: **“There’s no data to display”** |
| x-axis | Show “Time” in 24 hours format |
| y-axis | + Temperature (oF) or Temperature (oC) based on the current measurement system (US/Metric),  + y-axis should scale base on the maximum and minimum values of data |
| Legend | Shows the correct legend for y-axis data |
| There’s a Date/Time filter: From Date/To Date | ++Click From Date> a pop up calendar showed to select a start date  ++Click To Date> a pop up calendar showed to select an end date |

* + 1. Temperature monitoring/Table Report

Test objective:

Test table report of Temperature Feature

Test procedure:

1. From Graph report page, click “Table” tab to go to “Temperature monitoring – Table report” page
2. From popup, select the From Date and To Date
3. Click “Select” to start drawing graph report
4. View table report of Temperature monitoring feature

Expected outcomes:

1. “Table” tab is selected.

There is a popup showed “Select date to draw chart”

1. Be able to select From Date and To Date

Be able to enter value manually into From Date and To Date

1. Data entered successfully

Entered date are selected, graph report starts to display

1. A table shows data on the webpage

If there is no data on selected dates, a notification shows: **“You have no data to show”**

There’s a list to select # of records to display on 1 page: 10/25/50/100/250/500/All

Table show the correct data of current user

|  |  |
| --- | --- |
| Column name | Requirements |
| Received | Timestamp should be 24 hour format and up to second |
| Skin Temperature | + Unit of skin temperature and Ambient temperature based on the current measurement system (US/Metric): Skin temperature (oC/oF) Ambient Temperature (oC/oF)  + Use full title instead of abbreviation title if there is enough space. |
| Ambient Temperature |  |
| Diagnosis |  |

* + 1. Temperature monitoring/ Settings

Test objection:

Test setting pages for Temperature monitoring feature

Test procedure:

1. At the bottom of Temperature monitoring Graph/Table Report, Click Settings button to go to Teamperature monitoring settings page
2. View or make change the settings
3. Click Save settings to save
4. Click Cancel to discard

Expected outcomes:

1. Can go to “Settings” page for Temperature monitoring feature
2. Current settings are shown.

User can show current settings.

1. New settings are saved to database.

New settings will be shown next time user go to settings page.

1. No changes are made and go back to previous page.

Fields validations

|  |  |
| --- | --- |
| **Fields** | **Requirements** |
| Sample rate | 2 fields (1 text box to enter value and one dropdown to select unit) |
| Low threshold | Unit of thresholds should corresponding to current measurement system (US/Metric) |
| High threshold | Unit of thresholds should corresponding to current measurement system (US/Metric) |
| Very high threshold | Unit of thresholds should corresponding to current measurement system (US/Metric) |

* 1. Track Others
     1. Track Others/Select a user to track

Test objective:

Test elements in Track Other page

Test procedure:

1. From left navigator, select “Reports” then select “Track others”
2. Select a user and click “Select” button
3. Or double click a user in the list
4. Click Cancel to go back to Homepage
5. View available features for selected user

Expected outcome:

1. Can go to the link. There is a list of users that authorized current user.

If there’s no user in the list, a notification shows: **“There’s no user”**

1. Can select user in the list

Click Select button without choosing a user, a notification show **“Please select a user you want to monitor!”**

1. Can double click a user
2. “Cancel” button work correctly, go back to Homepage
3. Features list of available features for selected user

Page title: “Track @First\_name @Last\_name health”

* 1. Message Center
     1. Composing and sending process

Test objective:

Test message compose and sending process

Test procedure:

Click left navigation **Message Center > Compose** to open Editor.

Input: username (the user want to send message to)

Input: subject

Input: Content of the message

Click Send to send the message

Expected Outcome:

Input data validation

|  |  |
| --- | --- |
| **Fields** | **Requirements** |
| To | An existed username in HomeCare System |
| Subject |  |

Send Button actions:

Show success notification if message sent successfully

**“Message sent successfully.”**

Click OK to Go back to Inbox

Message sent to the correct receiver

All content is sent to the receiver

Sender receive a **Fail Message** if the username is not exist on the system

Fail Message content:

|  |  |
| --- | --- |
| Sender: | System |
| Subject: | Fail message sent |
| Body | The username is not existed.  [Show the original message  Sender: [current user]  To: [username of wrong user]  Create date:  ] |

* + 1. Elements in Inbox/Alarm/Sent/Trash page

Test objective:

Test elements in Inbox page

Expected outcome:

Fields in Inbox message list:

Subject/From/Received

Fields in Alarm message:

Subject/Received

Fields in Sent message list:

Subject/To/Sent

Fields in Trash message list:

Subject/Create date/Deleted date

|  |  |
| --- | --- |
| **Fields** | **Explanation** |
| Check box | A checkbox in front of each record and a checkbox to check all messages in list |
| Subjects | Show the subject of the message |
| From | Show the First name and Last name of the sender |
| To | Show the First name and Last name of the receiver |
| Received on | Show the Date and Time the message was received/sent |
| Create date | Show the Date and Time the message was created |
| Delete date | Show the Date and Time the message was deleted |

A notification shows “no message” if there’s no message in inbox/sent/trash

A title shows ordinal number of the messages in that page. Eg. Message 1-25. Message 26-47

Buttons in page: Previous/Next/Delete

* + 1. Move between message lists in Inbox/Alarm/Sent/Trash

Test objective:

Test navigate between message lists (if there are a lot of message inbox)

Expected outcome:

Click Next to go to older messages inbox.

If it goes to the first page, a notification tell it’s the first page: **“This is the first page”**

Click Previous to go to newer message inbox

If it goes to the last page, a notification tell it’s the last page: **“This is the last page”**

* + 1. Read a message

Test objective: test process to read a received message (in Inbox/Alarm/Sent/Trash)

Test procedure:

Navigate to Message Center> Inbox/Alarm/Sent/Trash

Click on the Subject of a message to read the content of the message

Click OK

Expected outcome:

A popup shows: From/To/Subject (except Alarm) and Content of the message

Click OK> go back to message list

* + 1. Delete messages in Inbox/Sent

Test objective:

Test delete messages function in Inbox/Sent/Alarm

Test procedure:

In message list, Click checkbox on messages that you want to delete

Click check box on the Header of message list to select all message

Click Delete, Click Yes

Expected outcome:

Messages selected

All messages selected if check on the header checkbox

A delete confirm notification:

If one message selected: **“Do you want to delete this message?”**

If more than one message selected: **“Do you want to delete these messages?”**

Click OK:

Selected messages were deleted from Inbox/Sent

Stay on inbox/Sent

Deleted messages were move to Trash

There are deleted messages in Trash

* + 1. Delete messages in Trash

Test objective:

Test delete message in trash

Test empty trash function

Test procedure:

Delete messages:

In Trash messages list,

Click checkbox on messages that you want to delete

Or

Click check box on the Header of message list to select all message

Click Delete,

Click Yes

Empty trash:

In Trash message list, click Empty button

Click OK

Expected outcome:

Delete messages:

Selected/All messages in Trash were selected

Selected/All messages in Trash were deleted.

Notification message: “**Please select a message(s) to delete.**”

Confirmation message: “**Do you want to permanently delete this (these) message(s)?**”

Confirmation message: “**Do you want to empty the Trash folder?**”

* 1. Billing Account
     1. Elements in Billing Account Summary page

Test objective:

Test elements in Billing Account page

Expected outcome:

A table with field as below:

|  |  |
| --- | --- |
| **Fields** | **Requirements** |
| Account | The billing account of current user, system will create this number when user successfully registered.  A User may have only ONE billing account number |
| Account Type | There are 3 account type: Monthly/6 Months/Yearly |
| Last Payment | The last Date/Time user pay fee |
| Outstanding balance | The amount of money remain in Billing Account of current user.  It can be positive (+) or negative (-). (USD) |

Buttons in page: Account Details/Payments/Pay Bill

Buttons actions:

Account Details> go to Account Details page

See Payments> go to See Payments page

Pay Bill> Start Pay Bill process

* + 1. Elements in Billing Account Details

Test objective:

Test elements in Billing Account page

Expected outcome:

This page show details each time there’s a change in User Billing Account

A table with fields as below:

|  |  |
| --- | --- |
| **Fields** | **Requirements** |
| Date | The date an event occurs in User billing account |
| Description | The description of that event, including:  By customer/ By system |
| Charge | An amount of money system withdraw from user billing account |
| Pay | An amount of money user put into the billing account |
| Balance | The amount of money remain in billing account  This could be positive (+) or negative (-) |
| The Amount Due (below the table) | The amount of money customer still owe (be in debt to) HomeCare system. |

Buttons in page: See payments/Pay bill

Buttons actions:

See payments> got See Payments page

Pay bill> Start Pay Bill process

* + 1. Elements in See Payments

Test objective:

Test See payments

Expected outcome:

This page contents Payments that use paid for bills.

A table with fields as belows:

|  |  |
| --- | --- |
| **Fields** | **Requirements** |
| Date | The date user make a transaction |
| Description | A description of a transaction |
| Payment ID | The number of a transaction  It’s link. Click to open a Receipt information |
| Amount | The amount of money user has paid in a transaction |
| Total: | The total amount of money of all transactions |

Buttons in page: Back to Billing Account Summary

Buttons actions: click button, go to Billing Account Summary

Links in page: Payment ID

Links actions: click link, go to Receipt information of that payment

* 1. Pay Bill
     1. Pay Bill Process

Test objective:

Test pay bill process

Test procedure:

Click Pay Bill button in Billing Account Summary page/Account Details to open Pay Bill page

Input all data in Pay Bill page

Click Continue button to open Payment review page

Click Submit button

Expect outcome:

Buttons actions:

Continue>

Check input data if it meets requirement (see [Elements in Pay Bill form](#paybillform))

Temporally Save data to the browser

Open Payment review page

Submit button on Payment review page>

Save all input data to server

Charge money from input Credit Card

Open Receipt page

* + 1. Elements in Pay Bill form (pay by Credit Card)

Test objective:

Test elements in Pay Bill form

Expected outcome:

The page shows 2 sections:

Section 1: Billing Account information of current user with due amount; and pay amount that user wants to pay

Section 2: Receipt information and the information of the Credit Card that be charged

Data Input requirements are as below:

|  |  |
| --- | --- |
| **Fields** | **Requirements** |
| Amount to pay | input the amount to pay for this transaction (USD)  positive number (+) |
| Name on card | + is a required field  The name appear in Credit card used in this transaction |
| Address | + is a required field  The address will appear on the receipt |
| Address line 2 | The address 2 will appear on the receipt |
| City | + is a required field  The city will appear on the receipt |
| Country | + is a required field  The country will appear on the receipt |
| State | + is a required field  The state will appear on the receipt |
| Zipcode | + is a required field  The zip code will appear on the receipt |
| Phone | + is a required field  The phone will appear on the receipt |
| Email address | The email will appear on the receipt |
| Card type | + is a required field  The type of card used in this transaction |
| Card number | + is a required field  The number on the Credit card |
| Expired date | + is a required field  The expired date of Credit card |
| Security code | + is a required field  The security code of credit card |

Buttons in page: Continue/Cancel

Buttons actions:

Continue> save all information and go to Payment Review page

Cancel> discard all information and go to Billing account summary

* + 1. Elements in Payment review page

Test objective:

Test elements in Payment review page

Expected outcome:

Show these information of input data:

|  |  |
| --- | --- |
| **Fields** | **Requirements** |
| Account number | Show billing account of current user |
| Account type | Show the type of these billing account |
| Amount due | The amount of money customer still owe (be in debt to) HomeCare system. |
| Amount to pay | Input amount that user want to pay |
| Name | Input name |
| Address | The address will appear on the receipt |
| Phone | The phone will appear on the receipt |
| Email address | The email will appear on the receipt |
| Pay by Credit Card | The number of the Credit card used in this transaction |

Buttons in page: Submit/Back

Buttons actions:

Submit> Confirm input data and Submit input data. The receipt page appears

Back> go to Pay Bill page

* + 1. Elements in Receipt page

Test objective:

Test receipt page after successfully pay a bill

Expected outcome:

Page show a receipt with these information:

|  |  |
| --- | --- |
| **Fields** | **Information shows** |
| Pay ID: | The ID of the transaction |
| Account number | Show billing account of current user |
| Account type | Show the type of these billing account |
| Amount due | The amount of money customer still owe (be in debt to) at the time of this transaction. |
| Amount to pay | Input amount |
| Name | Input name of this transaction |
| Address | The input address of this transaction |
| Phone | The phone of this transaction |
| Email address | The email of this transaction |
| Pay by Credit Card | The number on the Credit card  Shows 4 ending digits  All remain digits are hidden and shows as \* |

Buttons in page: Back to Billing Account Summary

Buttons actions:

Back to Billing Account Summary> go to Billing Account Summary page

* 1. Print functions on all page

Test objective:

Test print functions in pages

Expected outcome:

Make sure print links work well and do not affect other functions.

1. ADMINISTRATIVE USER
   1. User Management page
      1. Users List

Test objective:

Test viewing the users list

Expected outcome:

A table shows all users of HomeCare System

Information shown as following:

|  |  |
| --- | --- |
| **Column headers** | **Requirements** |
| ID | The unique ID of an account  It is a link. Click to open User Details page |
| Username | Username used to logon to system |
| Email address | The email address of a user |
| Status | Status of an account:  Active: user is in active mode. User can logon to system  Inactive: user is in inactive mode,  which means:  1. User not done registration confirmation.  2.User is deactivated by an administrative user |
| Note | Some note about this account |
| Member type | Show which group a user belonging to:  ADMIN MINT: an administrative user (manage system)  PRIMARY: an primary user (track oneself’s health)  PARTIAL (or MONITOR): an monitoring user (tracking other’s health) |

Filter functions work correctly.

* + 1. User Details page

Test objective:

Test elements in use details page

From user list, click an ID to show that User Details page.

Expected outcome:

There are sections: Account overview/ User profile/User Preferences/Group-Permission/Billing management

The ability to edit each section

|  |  |
| --- | --- |
| **Account Overview** |  |
| Registered |  |
| Registered from IP |  |
| Last logon |  |
| Warnings |  |
| Email |  |

|  |  |
| --- | --- |
| **User profile** | **See profile of an user** |
| First name |  |
| Last name |  |
| Date of Birth |  |
| Gender |  |
| Address |  |
| City |  |
| Country |  |
| State |  |
| Zip code |  |
| County |  |
| Home phone |  |
| Mobile phone |  |
| Member type |  |

|  |  |
| --- | --- |
| User preference |  |
| Measurement system |  |

|  |  |
| --- | --- |
| **Group** | Show Group of current user.  If user does not belong to any group, “No Group” is shown |

|  |  |
| --- | --- |
| **Permission** | **Show permission of current user** |
| Granted Users: | Show a list of other users (username)whom current user could track their health |

|  |  |
| --- | --- |
| **Billing management** | **Change the way system will bill for current user** |
| Auto bill | Set auto billing for current user.  + Billing type: drop box show 3 kinds of billing type: Monthly/6 months/Yearly  + Date: Choose start date for each billing type  + Amount: enter the amount for auto billing  + Description: description for this auto billing |
| Manual | Set 1 time billing:  + Date: Choose start date for each billing type  + Amount: enter the amount for this manual billing  + Description: description for this manual billing |

* + 1. Add new user

Test objective:

Check add new user function works correctly

Test procedure:

From User management page, click Add new user button to open Registration page

[(See 1.5. Registration)](#registration)

* + 1. Activate/Deactivate user

Test objective:

Check activate/Deactivate user function work correctly

Test procedure:

From User management page, click the checkbox of desired user(s)

Click Activate account button to activate selected user(s)

Or

Click Deactivate account button to deactivate selected user(s)

Expected outcome:

The desired user(s) is activated

Activated user(s) could login to the system

Or

The desired user(s) is deactivated

Deactivated user(s) could NOT login to the system

* + 1. Billing management/Auto billing

Test objective:

Test auto billing settings (the way system will bill a user) for a user

Test procedure:

Navigate to user Details page.

Go to Billing Management section.

Check the check box: Auto

Select a billing type: monthly, 6 months, yearly

Select date.

Enter the money amount (USD)

Enter a description

Click Save

Expected outcome:

All settings are saved successfully

System automatically charge current user as the schedule

There’s a record in [Billing Account Detail page](#BillingAccountDetails) of current user on entered date (start date and dates after: monthly, 6 months, yearly)

* + 1. Billing management/Manual billing

Test objective:

Test manual billing settings for a user

Test procedure:

Navigate to user Details page.

Go to Billing Management section.

Adding one time billing by:

Select a date.

Enter the money amount (USD)

Enter a description

Click Add

Adding another one time billing:

Select date.

Enter the money amount (USD)

Enter description

Click Add

Click Save

Expected outcome:

Each adding is saved.

System will charge current user for each adding, on the date of each adding

There’s a record in [Billing Account Detail page](#BillingAccountDetails) of current user on each adding date

Note: **Admin does not need uncheck the auto billing function. Manual billing can work independently.**

* 1. Logs
     1. Webadmin Logs page

Test objective:

Test logs page

Expected outcome:

A list show records of logon information state

A filter to narrow the list: Username/From Date/To Date

Information is as below:

|  |  |
| --- | --- |
| **Fields** | **Information** |
| Login date | The date of an event |
| Username | The username (actor) of an event |
| Note | Note for this log. E.g. log-in failed |

* + 1. Sync Logs page (TBD)

Logs for Database synchronizing

* 1. System tools (TBD)
     1. Security Settings (TBD)
     2. Configure (TBD)
  2. Message Center [(Please See User Message Center.)](#messagecenter)
     1. View Messages
     2. Delete Messages
     3. Empty Trash
  3. Administrative User/My account
     1. Administrative User/My account page

Test objective:

Check information in Admin My account page

Check functions of buttons

Expected outcome:

Show information of current administrative user

|  |  |
| --- | --- |
| **Fields** | **Information** |
| Password | Show \*\*\* |
| Real name | Full name (first name and Last name) of current administrative user |
| Email | Email address of current administrative user |
| Language | Language used by current administrative user |
| Privileges | Permission of current administrative user to the system |
| Last login | Last logged-in date/time |

Buttons: Edit

Buttons actions: Click Edit, go to Edit My Account page

* + 1. Administrative User/Edit My account

Test objective:

Check Edit My account page

Expected outcome:

The information of current administrative shows

The ability to edit the information

|  |  |
| --- | --- |
| **Fields** | **Information** |
| Password | Shows \*\*\* |
| New password | If current user want to change the password  Enter the new password here  If NOT, leave this field blank |
| Confirm new password | If current user want to change the password  Retype the new password here  If NOT, leave this field blank |
| Real name | Full name (first name and Last name) of current administrative user |
| Email | Email address of current administrative user |
| Language | Language used by current administrative user |
| Privileges | Permission of current administrative user to the system |
| Last login | Last logged-in date/time |

Buttons: Save/Cancel

Button actions:

|  |  |
| --- | --- |
| Save | + Click Save to save all edited info  + a notification show “Edited successfully”  + Click OK to go back to My account page |
| Cancel | + Click Cancel to discard edited data  + go back to My account page |

* 1. Print functions on all pages

Test objective:

Test print functions in pages

Expected outcome:

Make sure print links work well and do not affect other functions.

1. Additional features
   1. Feature 02: Body measurement monitoring
      1. Body measurement monitoring feature/View the Graph report

Test objective:

Check if the Graph report for Body measurement monitoring feature show

Test procedure:

1. From left navigation panel, click “Reports” menu then “Track my health” menu to open “Track my health” page
2. Click “Body measurement monitoring” icon to go to “Body measurement monitoring – Graph report” page
3. From popup, select the From Date and To Date
4. Click “Select” to start drawing graph report
5. View graph report of Body measurement monitoring feature

Expected outcomes:

1. Can go to “Track my health” page
2. Show “Body measurement monitoring – Graph report” page

There is a popup showed “Select date to draw chart”

1. Be able to select From Date and To Date

Be able to enter value manually into From Date and To Date

Data entered successfully

1. Entered date are selected, graph report starts to display
2. A graph shows on the webpage

If there is no data on selected dates, a notification shows: **“You have no data to graph”**

* + 1. Body measurement monitoring/Graph report content

Test objective:

Check if the Graph report show correctly

Test prerequisite:

There’s data on selected day and Graph report already shows

Expected outcome:

1. A 2D-chart with x-axis and y-axis shows.

Y-axis labels:

|  |  |
| --- | --- |
| **Labels** | **y-axis data** |
| BMI | Shows Body Mass Index value, filled with different colors |
| WHR | Shows Waist-To-Hip Ratio value, filled with different colors |
| BF% | Shows Body Fat Percentage value, filled with different colors |
| Ideal weight | Shows the value of Ideal weight suggestion |
| Metabolic age | Show the value of Metabolic age |

(See the Body Measurement Formula for the color and other information)

X-axis Label: **“DateTime” –** Label is a hyperlink: Click to open a popup to select Date

X-axis data: shows the date/time for y-axis values. Date format: MM/DD/YY

The legend show correctly, BF% legends show different with different Settings

1. The diagnosis area show correctly according to data loading
   * 1. Body measurement monitoring/View the Table report

Test objective:

Check if the Graph report for Body measurement monitoring feature showing

Test procedure:

1. From Graph report page, click “Table” tab to go to “Body measurement monitoring Table report” page

2. From popup, select the From Date and To Date

3. Click “Select” to start drawing graph report

4. View table report of Body measurement monitoring feature

Expected outcomes:

1. “Table” tab is selected.

There is a popup showed “Select date to draw chart”

2. Be able to select From Date and To Date

Be able to enter value manually into From Date and To Date

Data entered successfully

3. Entered date are selected, graph report starts to display

A table shows data on the webpage

If there is no data on selected dates, a notification shows: **“You have no data to show”**

* + 1. Body measurement monitoring/Table report content

Test objective:

Check if Table report show correctly

Test prerequisite:

There’s data on selected date and Table report already shows

Expected Outcome:

Table Report page shows a data table

|  |  |
| --- | --- |
| **Row Headers** | **Requirements** |
| Date Time | It is a link. Click to open a popup calendar.  Select From Date/To Date for the data to show in the table |
| BMI | Shows BMI value |
| WHR | Show WHR value |
| BMR | Show BMR value (Basal Metabolic Age) |
| BF% | Show BF% value |
| LBW | Show LBW value (Lean Body Weight) |
| Ideal W | Show Ideal Weight value |
| Meta. Age | Show Metabolic Age value |
| Act. Level | Show Activity Level value |
| Cal. Needs | Show Calorie Needs value |

|  |  |
| --- | --- |
| **Column Headers** | **Requirement** |
| Value | Show the value of each Row Headers |
| Diagnose | Show the diagnose for the value |

* + 1. Body measurement monitoring/Settings

Test objection:

Test setting pages for Body measurement monitoring feature

Test procedure:

1. At the bottom of Body measurement monitoring Graph/Table Report, Click Settings button to go to Body measurement monitoring settings page

2. View or make change the settings

3. Click Save settings to save

4. Click Cancel to discard

Expected outcomes:

1. Can go to “Settings” page for Body measurement monitoring feature

2. Current settings are shown.

3. New settings are saved to database.

New settings is shown, next time user will see new settings when go to settings page.

4. No changes are made and go back to previous page.

Old settings is kept, next time user will see old settings when go to settings page

The Body measurement monitoring settings page includes 2 groups of settings:

Group 1: The methods used in Body measurement: **“Measurement methods:”**

|  |  |
| --- | --- |
| **Methods** | **Requirements/information** |
| IW method | The method used to calculate Ideal Weight  There are 2 methods: Formula and Decimal.  The drop-down list shows the current method.  Click drop-down list to change the setting to one different method. |
| BF% method | The method used to calculate Body Fat Percentage  There are 3 methods: Deurenberg, CUN-BAE and U.S Navy  The drop-down list shows the current method.  Click drop-down list to change the setting to one different method. |
| Fat Evaluate | The method used to evaluate Body Fat Percentage  There are 3 methods: WHO, Tanita or Brainy  The drop-down list shows the current method.  Click drop-down list to change the setting to one different method. |
| BMR method | The method used to measure Basal Metabolic Rate  There are 4 methods: Cunningham, Katch-McArdle, Muffin or Roza Shizgal  The drop-down list shows the current method.  Click drop-down list to change the setting to one different method. |

Group 2: The body measurements of current user: **“Current body measurements:”**

The unit is in US or Metric system according to current Global Setting of current user

|  |  |
| --- | --- |
| **Measurement** | **Requirements** |
| Weight | A Text box shows current weight of current user (kg or lb)  Edit by entering a different number |
| Height | A Text box shows current height of current user (cm or feet/inch)  Edit by entering a different number |
| Waist | A Text box shows current waist measurement of current user (cm or inch)  Edit by entering a different number |
| Hip | A Text box shows current hip measurement of current user (cm or inch)  Edit by entering a different number |
| Neck | A Text box shows current neck measurement of current user (cm or inch)  Edit by entering a different number |

* 1. Feature 03: Heart Rate Monitoring
     1. Heart rate monitoring/ View Graph report with Heart rate data

Test objective:

Check Graph Report for in Heart rate data view

Test procedure:

1. From Heat rate page, click GRAPH button
2. Click drop-down list below “Graph” button and select “Heart rate data” view
3. View Graph report

Expected outcome:

1. Graph report is selected
2. Be able to select “Heart rate data” from dropdown list.
3. A 2D Line chart with x-axis and y-axis shows.

Y-axis label: “Beats per minute (Bpm)”

Y-axis shows numbers of heart rate unit

X-axis Label: **“DateTime”.** Label is aHyperlink: Click to open a popup to select date

X-axis data: shows the date/time for y-axis values.

Legends: is on top right of the graph report

|  |  |  |
| --- | --- | --- |
| **Legends** | **Color** | **Description** |
| HR voltages | Light blue line | User’s raw heart rate voltage |
| HR | Light red line | User’s heart rate over time |
| Resting HR | Orange dots | User’s resting heart rate |
| High threshold | Red hashed line | High threshold marker for heart beats recorded |
| Low threshold | Blue hashed line | Low threshold marker for heart beats recorded |

* + 1. Heart rate monitoring/View Graph report with HRV data

Test objective:

Check Graph Report for in HRV data view

Test procedure:

1. From Heat rate page, click GRAPH buttons
2. Click drop-down list below “Graph” button and select “HRV data” view
3. View Graph report

Expected outcome:

1. Graph report is selected
2. HRV data is selected
3. A 2D Bar chart with x-axis and y-axis shows.

Y-axis: shows parameters of different categories by green bars with unit and max values for each sub-graph.

Can mouse-over each green bar to show its value.

|  |  |
| --- | --- |
| **Categories** | **Description** |
| Mean HR | Mean Heart Rate |
| Std. HR | Standard Heart Rate |
| Mean RR | The mean of the all NN intervals |
| SDNN | The standard deviation of the all NN inter |
| RMSSD | … |
| pNN50 | … |

X-axis Label: **“DateTime” –** Label is a hyperlink: Click to open a popup to select Date

X-axis data: shows the date/time for y-axis values. Date format: MM/DD/YY

* + 1. Heart rate monitoring/View Table report with Heart rate data

Test objective:

Test Heart rate report when viewing in table view with heart rate data

Test procedure:

1. On Heart rate page, click TABLE button
2. Click drop down list below “Table” button and select “Heart rate data”
3. View table report

Expected outcomes:

1. “Table” button is selected and dimed
2. “Heart rate data” is selected
3. A table shows data in different categories

|  |  |
| --- | --- |
| **Columns** | **Requirements** |
| Date/Time | Column header is a link. Click the link to open Popup Calendar.  Use this popup calendar to filter the date/time for data to show in table |
| Heart rate (bpm) |  |
| Resting HR (bpm) |  |
| Voltage |  |
| Diagnosis |  |

* + 1. Hear rate monitoring/View Table report with HRV data

Test objective:

Test Heart rate report when viewing in table view with HRV data

Test procedure:

1. On Heart rate page, click TABLE button
2. Click drop down list below “Table” button and select “HRV data”
3. View table report

Expected outcomes:

1. “Table” button is selected and dimed
2. “Heart rate data” is selected
3. A table shows data in different categories

|  |  |
| --- | --- |
| **Columns** | **Requirements** |
| Date/time | Column header is a link. Click the link to open Popup Calendar.  Use this popup calendar to filter the date/time for data to show in table |
| Mean HR (bpm) |  |
| Std.HR (bpm) |  |
| Mean RR (ms) |  |
| SDNN (ms) |  |
| RMSSD (ms) |  |
| pNN50 (%) |  |
| Diagnosis |  |

* + 1. Heart rate monitoring/Settings

Test objection:

Test setting pages for Heart rate monitoring feature

Test procedure:

1. At the bottom of Heart rate monitoring Graph/Table Report, Click Settings button to go to Heart rate monitoring settings page
2. View or make change the settings
3. Click Save settings to save
4. Click Cancel to discard

Expected outcomes:

1. Can go to Heart rate monitoring settings page
2. Show correctly current settings when navigating to Settings page, Save settings button and Save function are inactive before changing setting parameters. Save settings button is active when there is something changed.
3. Settings are saved correctly (show saved settings in next time user go to settings pages). Make sure any change is kept tracks in the database.
4. No change saved and go back previous page.

The Heart rate monitoring settings includes:

|  |  |
| --- | --- |
| **Settings** | **Requirements** |
| Sample rate | The time |
| Max HR estimation | Gatti or Kolata |
| High Resting HR threshold | Beats per minute (bpm) |
| Low Resting HR threshold | Beats per minute (bpm) |
| HRV analysis interval | The time |

* 1. Feature 04: Oxygen Monitoring (Sp02)
     1. Oxygen monitoring/Graph report

Test objective:

Check elements in Oxygen Graph Report

Test procedure:

1. From Features page click “Oxygen monitoring” icon

2. On Oxygen monitoring page, click GRAPH button

3. A popup calendar shows, click from Date/to Date to select Start and End date

4. View graph report

Expected outcomes:

1. Can click on the icon.

2. Can click on Graph button. Report area changes to Graphic report

3. Can select From Date and To Date. Can click OK button

If there is no data to display, a notification shows: **“You have no data to graph”**

4. A 2D Line chart with x-axis and y-axis shows.

Y-axis: shows blood oxygen saturation percentage

|  |  |
| --- | --- |
| **Lines** | **Requirements** |
| Black line | represents the user's blood oxygen saturation percentage over time |
| Blue Hashed line | Below the black line  represents a low threshold for the user's blood oxygen saturation percentage |

X-axis Label: **“DateTime” –** Label is a hyperlink: Click to open a popup to select Date

X-axis data: shows the date/time for y-axis values. Date format: MM/DD/YY

* + 1. Oxygen monitoring/Table report

Test objective:

Test table report for Oxygen monitoring feature

Test procedure:

From Oxygen monitoring page, click TABLE button

Expected outcomes:

A table shows data:

|  |  |
| --- | --- |
| **Columns** | **Requirements** |
| Date/time | Column header is a link. Click the link to open Popup Calendar.  Use this popup calendar to filter the date/time for data to show in table |
| Blood oxygen saturation percentage (%SpO2) |  |
| Threshold |  |
| Mode |  |
| Diagnosis |  |

* + 1. Oxygen monitoring/Settings

Test objective:

Test setting page of Oxygen monitoring feature

Test procedure:

1. At the bottom of Heart rate monitoring Graph/Table Report, Click Settings button to go to Heart rate monitoring settings page

2. View or make change the settings

3. Click Save settings to save

4. Click Cancel to discard

Expected outcomes:

1. Can click to Settings button. Settings page shows

2. Current Settings show. Can edit settings

3. Can click Save button. New settings are saved. New settings show next time user go to Settings page.

4. Can click Cancel button. Old settings are kept. Old settings show next time user go to Settings page

The Oxygen monitoring settings includes:

|  |  |
| --- | --- |
| **Settings** | **Requirements** |
| Sample rate | The time |
| Tracking mode | Normal monitoring  Sleep apnea syndrome monitoring  COPD patients monitoring  Patients on long-term oxygen therapy monitoring  Asthma patients monitoring  Acute respiratory infections monitoring |
| Warning threshold | Can not make change to this setting, warning threshold depends on Tracking mode |
| Measurement duration |  |

* 1. Feature 05: Fitness Monitoring
     1. Fitness monitoring/View Graph report for Step counts

Test objective:

Check Graph report for Step counts

Test procedure:

1. From Features list, click Fitness monitoring icon
2. From popup, select From Date/To Date and click “Select”
3. From top of report area, select “Step counts” from drop-down list
4. View Step counts Graph report

Expected outcome:

1. Can select Fitness monitoring feature. A popup shows to select Date/Time
2. Can select Date. Graph report shows
3. Can select “Step counts”.

If If there is no data on selected dates, a notification shows: **“You have no data to graph”**

1. The Graph report of Step counts show correctly

A 2D bar chart shows:

Y-axis label: “Steps”.

Y-axis data: shows numbers of steps in each day

X-axis Label: **“DateTime” –** Label is a hyperlink: Click to open a popup to select Date

X-axis data: shows the date/time for y-axis values. Date format: MM/DD/YY

Can use mouse to scroll chart

Legends show:

Red: Target steps of the day

Green: Actual steps

* + 1. Fitness monitoring/View Graph report for Distance

Test objective:

Check Graph report for Distance

Test procedure:

1. From Features list, click Fitness monitoring icon
2. From popup, select From Date/To Date and click “Select”
3. From top of report area, select “Distance” from drop-down list
4. View Distance Graph report

Expected outcome:

1. Can select Fitness monitoring feature. A popup shows to select Date/Time
2. Can select Date. Graph report shows
3. Can select “Distance”.

If If there is no data on selected dates, a notification shows: **“You have no data to graph”**

1. The Graph report of Distance show correctly

A 2D bar chart shows:

Y-axis label: “Distance”.

Y-axis data: shows number of steps in a day

X-axis Label: **“DateTime” –** Label is a hyperlink: Click to open a popup to select Date

X-axis data: shows the date/time for y-axis values. Date format: MM/DD/YY

Can use mouse to scroll chart

Legends show:

Red: Target distance of the day

Green: Actual distance

* + 1. Fitness monitoring/View Graph report for Average Speed

Test objective:

Check Graph report for Average Speed

Test procedure:

1. From Features list, click Fitness monitoring icon
2. From popup, select From Date/To Date and click “Select”
3. From top of report area, select “Average Speed” from drop-down list
4. View Average Speed Graph report

Expected outcome:

1. Can select Fitness monitoring feature. A popup shows to select Date/Time
2. Can select Date. Graph report shows
3. Can select “Average Speed”.

If If there is no data on selected dates, a notification shows: **“You have no data to graph”**

1. The Graph report of Average Speed show correctly

A 2D bar chart shows:

Y-axis label: “Average Speed”.

Y-axis data: shows number of steps in a day

X-axis Label: **“DateTime” –** Label is a hyperlink: Click to open a popup to select Date

X-axis data: shows the date/time for y-axis values. Date format: MM/DD/YY

Can use mouse to scroll chart

Legends show:

Red: Target Average Speed of the day

Green: Actual Average Speed

* + 1. Fitness monitoring/View Graph report for Calories burned

Test objective:

Check Graph report for Calories burned

Test procedure:

1. From Features list, click Fitness monitoring icon
2. From popup, select From Date/To Date and click “Select”
3. From top of report area, select “Calories burned” from drop-down list
4. View Calories burned Graph report

Expected outcome:

1. Can select Fitness monitoring feature. A popup shows to select Date/Time
2. Can select Date. Graph report shows
3. Can select “Calories burned”.

If If there is no data on selected dates, a notification shows: **“You have no data to graph”**

1. The Graph report of Calories burned show correctly

A 2D bar chart shows:

Y-axis label: “Calories burned”.

Y-axis data: shows number of steps in a day

X-axis Label: **“DateTime” –** Label is a hyperlink: Click to open a popup to select Date

X-axis data: shows the date/time for y-axis values. Date format: MM/DD/YY

Can use mouse to scroll chart

Legends show:

Red: Target Calories burned of the day

Green: Actual Calories burned

* + 1. Fitness monitoring/View Graph report for Pedometer duration

Test objective:

Check Graph report for Pedometer duration

Test procedure:

1. From Features list, click Fitness monitoring icon
2. From popup, select From Date/To Date and click “Select”
3. From top of report area, select “Pedometer duration” from drop-down list
4. View Pedometer duration Graph report

Expected outcome:

1. Can select Fitness monitoring feature. A popup shows to select Date/Time
2. Can select Date. Graph report shows
3. Can select “Pedometer duration”.

If If there is no data on selected dates, a notification shows: **“You have no data to graph”**

1. The Graph report of Pedometer duration show correctly

A 2D bar chart shows:

Y-axis label: “Pedometer duration”.

Y-axis data: shows number of steps in a day

X-axis Label: **“DateTime” –** Label is a hyperlink: Click to open a popup to select Date

X-axis data: shows the date/time for y-axis values. Date format: MM/DD/YY

Can use mouse to scroll chart

Legends show:

Red: Target Pedometer duration of the day

Green: Actual Pedometer duration

* + 1. Fitness monitoring/View Table report with HR exercise data

Test objective:

Test table report when using HR exercise data

Test procedure:

1. From Features list, click Fitness monitoring icon
2. Select “Table” button from Top of the page
3. From popup, select From Date/To Date and click “Select”
4. Below Click “HR exercise data”
5. View Table report with HR exercise data

Expected outcome:

1. Can select Fitness monitoring feature. A popup shows to select Date/Time
2. Can select “Table” button.
3. Can select Date. Table report shows after click “Select”
4. Can select “HR exercise data” tab.

If If there is no data on selected dates, a notification shows: **“You have no data to graph”**

1. The Table report with HR exercise data show correctly

Can scrolling up and down to view data

A data table shows:

|  |  |
| --- | --- |
| **Columns** | **Requirements** |
| Date/time |  |
| Duration |  |
| Exercise |  |
| Time in zones |  |
| Target HR |  |
| Average HR |  |
| Maximum HR |  |

* + 1. Fitness monitoring/View Table report with Pedometer data

Test objective:

Test table report when using with pedometer data

Test procedure:

1. From Features list, click Fitness monitoring icon
2. Select “Table” button from Top of the page
3. From popup, select From Date/To Date and click “Select”
4. Below Click “Pedometer data”
5. View Table report with Pedometer data

Expected outcome:

1. Can select Fitness monitoring feature. A popup shows to select Date/Time
2. Can select “Table” button.
3. Can select Date. Table report shows after click “Select”
4. Can select “Pedometer data” tab.

If If there is no data on selected dates, a notification shows: **“You have no data to graph”**

1. The Table report with Pedometer data show correctly

Can scrolling up and down to view data

A data table shows:

|  |  |
| --- | --- |
| **Columns** | **Requirements** |
| Date/time |  |
| Target (mi. or km.) |  |
| Steps |  |
| Distance (mi. or km.) |  |
| Average speed (mph. or kmph.) |  |
| Calories burned (kcal.) |  |
| Duration (hrs.) |  |

* + 1. Fitness monitoring/Settings

Test objection:

Test setting pages for Fitness monitoring feature

Test procedure:

1. At the bottom of Fitness monitoring Graph/Table Report, Click Settings button to go to Fitness monitoring settings page
2. View or make change the settings
3. Click Save settings to save
4. Click Cancel to discard

Expected outcomes:

1. Can go to “Settings” page for Fitness monitoring feature
2. Current settings are shown.
   1. User can show current settings.
3. New settings are saved to database.
   1. New settings will be shown next time user go to settings page.
4. No changes are made and go back to previous page.
5. The Fitness monitoring settings includes 2 settings groups:

**Heart rate exercise**

|  |  |
| --- | --- |
| **Settings** | **Requirements** |
| Exercise mode | Single or Multi-stage |
| Target HR method | General or Zoladz |
| Custom exercise programs | (This setting is only visible when select Multi-stage)  Show current customized program.  Click the link to open the Editing page for Custom exercise programs. |

**Pedometer**

|  |  |
| --- | --- |
| **Settings** | **Requirements** |
| Target settings |  |
| Remind setting |  |
| Calories burned method |  |

* + 1. Fitness monitoring/Settings/Custom exercise programs

Test objective:

Test editing Custom exercise programs

Test procedure:

1. Open Fitness monitoring settings page.
2. In “Exercise mode”, select “Multi-stage” in dropdown list
3. In “Custom exercise programs”, click the @Program\_name
4. Enter number of stages and press TAB on keyboard
5. For each Stage, enter: Target HR and Time
6. Enter a name for this program.
7. Click Save

Expected outcome:

1. Settings page show
2. Can select Multi-stage from dropdown list   
   \*\* Note: You can only edit Custom exercise programs when Exercise mode is Multi-stage.
3. Can click @Program\_name
4. Can enter number
5. Can select Target HR from Zone1 to Zone5  
   Can enter time and select type of time

|  |  |
| --- | --- |
| Stage | The name for the stage |
| Target HR | Dropdown list to select from Zone 1 to Zone 5 |
| Time | Enter time.  Click dropdown list to select type of time: ms(millisecond)/sec(second)/min(minute)/hr(hour) |

1. Can customize the name of the program
2. A new customized exercise program was created or updated  
   Customized program have been saved. Saved program will be shown next time use go to custom program settings.
   1. Feature 06: Stress Monitoring
      1. Stress monitoring/Graph Report page

Test objective:

Check Graph Report for Stress monitoring feature

Test procedure:

On Stress monitoring page, click GRAPH buttons

Expected outcomes:

There are 2 options to view Graph report:

+ Report in %Stress view

+ Report with Raw data

The default view is: %Stress

If there is no data to display, a notification shows: **“You have no data to graph”**

* + 1. Stress monitoring/ View Graph report with % Stress

Test objective:

Check Graph report in %Stress view

Test procedure:

From Stress monitoring page, click GRAPH buttons

Click drop-down list, select %Stress

Expected outcome:

A 2D bar chart with x-axis and y-axis shows.

Y-axis: shows % Stress (Stress percentage or Stress level)

X-axis Label: **“DateTime” –** Label is a hyperlink: Click to open a popup to select Date

X-axis data: shows the date/time for y-axis values. Date format: MM/DD/YY

* + 1. Stress monitoring/View Graph report with Raw data

Test objective:

Check Stress report in Raw data view

Test procedure:

From Stress monitoring page, click GRAPH buttons

Click drop-down list, select Raw data view

Expected outcome:

A 2D line chart with x-axis and y-axis shows.

Y-axis: shows different categories

|  |  |
| --- | --- |
| **Categories** | **Requirements** |
| HR | Light red line |
| HR voltage | Yellow line |
| GSR | Black line |
| G-value X | Green line |
| G-value Y | Red line |
| G-value Z | Blue line |

X-axis Label: **“DateTime” –** Label is a hyperlink: Click to open a popup to select Date

X-axis data: shows the date/time for y-axis values. Date format: MM/DD/YY

* + 1. Stress monitoring/Table Report home page

Test objective:

Check Table Report for Stress monitoring feature

Test procedure:

On Stress monitoring page, click TABLE button

Expected outcomes:

There are 2 options to view Table report:

+ Report in Stress level (or Stress percentage)

+ Report with Raw data

The default view is: Heart rate data view

* + 1. Stress monitoring/View Table report with Stress level data

Test objective:

Test Stress report when viewing in table view with heart rate data

Test procedure:

On Stress monitoring page, click TABLE button

Click drop-down list and select Stress level data

Expected outcomes:

A table shows data:

|  |  |
| --- | --- |
| **Columns** | **Requirements** |
| Date/Time | Column header is a link. Click the link to open Popup Calendar.  Use this popup calendar to filter the date/time for data to show in table |
| Stress level | Show stress level (in %) |
| Diagnosis | Show diagnosis |

* + 1. Stress monitoring/View Table report with Raw data

Test objective:

Test Stress monitoring report when viewing in table view with Raw data

Test procedure:

On Stress monitoring page, click TABLE button

Click drop down list and select Raw data

Expected outcomes:

A table shows data:

|  |  |
| --- | --- |
| **Columns** | **Requirements** |
| Date/time | Column header is a link. Click the link to open Popup Calendar.  Use this popup calendar to filter the date/time for data to show in table |
| HR |  |
| HR voltage |  |
| GSR |  |
| G-value X |  |
| G-value Y |  |
| G-value Z |  |
| Diagnosis |  |

* + 1. Stress monitoring/ Settings

Test objective:

Test setting page for Stress monitoring feature

Test procedure:

At the bottom of Stress monitoring Graph/Table Report

Click Settings button to go to Stress monitoring settings page

View or make change the settings

Click Save settings to save

Click Cancel to discard

Expected outcomes:

The Stress monitoring settings include:

|  |  |
| --- | --- |
| **Settings** | **Requirements** |
| Measurement duration | Enter time.  Click dropdown list to select type of time: ms(millisecond)/sec(second)/min(minute)/hr(hour) |
| Heart rate sample | Enter time.  Click dropdown list to select type of time: ms(millisecond)/sec(second)/min(minute)/hr(hour) |
| GSR sample rate | Enter time.  Click dropdown list to select type of time: ms(millisecond)/sec(second)/min(minute)/hr(hour) |
| Accelerometer sample rate | Enter time.  Click dropdown list to select type of time: ms(millisecond)/sec(second)/min(minute)/hr(hour) |

* 1. Feature 07: Sleep Monitoring
     1. Elements in Sleep monitoring page

Test objective:

Test elements in Sleep monitoring page

Expected outcomes:

There are 4 sections in this main page:

+ Title of the page: **“Track My Health > Sleep monitoring”** with Print link and Help links

+ Report area shows: Graph report and Table report

+ **“Diagnosis & Recommendations”** area shows: result or recommendations

+ Bottom buttons: There are 2 buttons: “**Settings**” and “**Back to Track My Health**”

Buttons actions:

|  |  |
| --- | --- |
| **Buttons** | **Requirement/Actions** |
| Settings | Click to go to Setting page for Sleep Monitoring feature |
| Back to Track My Health | Click to go back to Track My Health home page |

* + 1. Sleep monitoring/Graph Report page

Test objective:

Check Graph Report for Sleep monitoring feature

Test procedure:

On Sleep monitoring page, click GRAPH buttons

Expected outcomes:

There are 2 options to view Graph report:

+ Report with Date/Time (Daily/Weekly/Monthly)

+ Report with Raw data

The default view is: Date view

If there is no data to display, a notification shows: **“You have no data to graph”**

* + 1. Sleep monitoring/ View Graph report by Date/Time

Test objective:

Check Graph Report for in Date/Time view

Test procedure:

From Sleep monitoring page, click GRAPH buttons

Click drop-down list, select Date/Time view

Expected outcome:

A 2D Stack bar chart with x-axis and y-axis shows.

Y-axis: shows different parameter of different categories in colors

|  |  |  |
| --- | --- | --- |
| **Categories** | **Description** | **Requirements** |
| Sleep duration | Orange | sleep duration and deep sleep duration will be measured in hours |
| Deep sleep duration | Blue | sleep duration and deep sleep duration will be measured in hours |
| Wake up # | Purple | The number of times the user wakes up will be reflected by the actual numbers |
| Sleep quality | Green | Sleep quality will be measured using a scale from 1 to 10 |

X-axis Label: **“DateTime” –** Label is a hyperlink: Click to open a popup to select Date

X-axis data: shows the date/time for y-axis values. Date format: MM/DD/YY

|  |  |
| --- | --- |
| **daily** | for daily tracking, the system will display just one bar that reflects the raw data parameters and associated colors |
| **weekly** | for weekly/monthly tracking, the graph will show two bars that represent the mean (left bar) and the standard deviation (right bar) for the data parameters and associated colors. |
| **monthly** | for weekly/monthly tracking, the graph will show two bars that represent the mean (left bar) and the standard deviation (right bar) for the data parameters and associated colors. |

* + 1. Heart rate/View Graph report with Raw data

Test objective:

Check Graph Report in Raw data view

Test procedure:

From Sleep monitoring page, click GRAPH buttons

Click drop-down list, select Raw data view

Expected outcome:

A 2D line chart with x-axis and y-axis shows.

Y-axis: shows parameters of different categories

|  |  |  |
| --- | --- | --- |
| **Categories** | **Colors** | **Requirements** |
| HR | Light red line |  |
| Skin temp | Yellow line |  |
| GSR | Black line |  |
| G-value X | Green line |  |
| G-value Y | Red line |  |
| G-value Z | Blue line |  |
| Activity level | Dark blue line |  |

X-axis Label: **“DateTime” –** Label is a hyperlink: Click to open a popup to select Date

X-axis data: shows the date/time for y-axis values. Date format: MM/DD/YY

* + 1. Sleep monitoring /Table Report home page

Test objective:

Check Table Report for Sleep monitoring feature

Test procedure:

On Sleep monitoring page, click TABLE button

Expected outcomes:

There are 2 options to view Table report:

+ Report with Date/Time data

+ Report with Raw data

The default view is: Date/Time data view

* + 1. Sleep monitoring /View Table report with Date/Time data

Test objective:

Test Stress report when viewing in table view with heart rate data

Test procedure:

On Sleep monitoring page, click TABLE button

Click drop-down list and select Date/Time data

Click Date/Time to select Track mode

|  |  |
| --- | --- |
| **Track mode** | **Requirements** |
| Monthly | weekly/monthly tracking, the system will display two columns per parameter to show the mean and standard deviation for each parameter |
| Weekly | weekly/monthly tracking, the system will display two columns per parameter to show the mean and standard deviation for each parameter |
| Daily | With daily tracking, the table will display only one column per parameter to reflect the raw data. |

Expected outcomes:

A table shows data:

|  |  |
| --- | --- |
| **Columns** | **Requirements** |
| Sleep duration |  |
| Deep sleep |  |
| Wake up number  (Wake up #) |  |
| Sleep quality |  |

* + 1. Sleep monitoring /View Table report with Raw data

Test objective:

Test Stress monitoring report when viewing in table view with Raw data

Test procedure:

On Stress monitoring page, click TABLE button

Click drop down list and select Raw data

Expected outcomes:

A table shows data:

|  |  |
| --- | --- |
| **Columns** | **Requirements** |
| Date/time | Column header is a link. Click the link to open Popup Calendar.  Use this popup calendar to filter the date/time for data to show in table |
| HR |  |
| HR voltage |  |
| GSR |  |
| G-value X |  |
| G-value Y |  |
| G-value Z |  |
| Diagnosis |  |

* + 1. Sleep monitoring feature/Settings

Test objective:

Test settings for Sleep monitoring feature

Test procedure:

At the bottom of Sleep monitoring Graph/Table Report

Click Settings button to go to Sleep monitoring settings page

View or make change the settings

Click Save settings to save

Click Cancel to discard

Expected outcomes:

The Sleep monitoring settings include 2 setting groups

Feature Settings and Alarm Setting

**Feature Settings:**

|  |  |
| --- | --- |
| **Settings** | **Requirements** |
| Heart rate sample rate | Enter a number.  Click dropdown list to select type of time: ms(millisecond)/sec(second)/min(minute)/hr(hour)  For example, the user can select a ten millisecond interval for Heart rate sample rate |
| GSR sample rate | Enter a number.  Click dropdown list to select type of time: ms(millisecond)/sec(second)/min(minute)/hr(hour)  For example, the user can select a ten millisecond interval for Heart rate sample rate |
| Accelerometer sample rate | Enter a number.  Click dropdown list to select type of time: ms(millisecond)/sec(second)/min(minute)/hr(hour)  For example, the user can select a ten millisecond interval for Heart rate sample rate |
| Skin temperature sample rate | Enter a number.  Click dropdown list to select type of time: ms(millisecond)/sec(second)/min(minute)/hr(hour)  For example, the user can select a ten millisecond interval for Heart rate sample rate |

**Alarm setting:**

|  |  |
| --- | --- |
| **Setting** | **Requirement** |
| Auto | sleep duration parameter  For example, the user can set it to 8 hours |
| Manual | The user can do this by selecting a desired Weekday and Time via clicking on the respective fields.  Add button> more file: weekday + Time |

* + 1. Sleep monitoring/Settings/Set Alarm to Auto

Test objective:

Test Auto Alarm setting for Sleep monitoring feature

Test procedure:

From Sleep monitoring setting page, Select Radio button to Auto

Enter a number

Click Save settings to save

Click Cancel to discard

Expected outcomes:

Alarm is set to Auto

User will be notified after the time entered has passed.

* + 1. Sleep monitoring/Settings/Set Alarm to Manual

Test objective:

Test Manual Alarm setting for Sleep monitoring feature

Test procedure:

From Sleep monitoring setting page, Select Radio button to Manual

Enter a number

Click Save settings to save

Click Cancel to discard

Expected outcomes:

Alarm setting is set to Manual

User will be notified after the time entered has passed in each alarm.

* 1. Feature 08: Position Monitoring
     1. Position monitoring/Graph Report page

Test objective:

Check Graph Report for Position monitoring feature

Test procedure:

On Position monitoring page, click GRAPH buttons

Expected outcomes:

There are 2 options to view Graph report:

+ Report with Position

+ Report with Raw data

The default view is: Position view

If there is no data to display, a notification shows: **“You have no data to graph”**

* + 1. Position monitoring/ View Graph report by Date/Time

Test objective:

Check Graph Report for in Date/Time view

Test procedure:

From Sleep monitoring page, click GRAPH buttons

Click drop-down list, select Date/Time view

Expected outcome:

A 2D chart with x-axis and y-axis shows.

Y-axis: shows dots of different positions in colors

|  |  |  |
| --- | --- | --- |
| **Postion** | **Description** | **Requirements** |
| Supine | Blue | Lying with face up |
| Prone | Red | Lying with face down |
| Left | Purple | The number of times the user wakes up will be reflected by the actual numbers |
| Right | Orange | Sleep quality will be measured using a scale from 1 to 10 |
| Up | Green |  |
| Down | Turquoise green |  |

X-axis Label: **“DateTime” –** Label is a hyperlink: Click to open a popup to select Date

X-axis data: shows the date/time for y-axis values. Date format: MM/DD/YY

* + 1. Position monitoring /View Graph report with Raw data

Test objective:

Check Graph Report in Raw data view

Test procedure:

From Position monitoring page, click GRAPH buttons

Click drop-down list, select Raw data view

Expected outcome:

A 2D line chart with x-axis and y-axis shows.

Y-axis: shows parameters of raw g-value over time

|  |  |  |
| --- | --- | --- |
| **Categories** | **Colors** | **Requirements** |
| G-value X | Green line |  |
| G-value Y | Red line |  |
| G-value Z | Blue line |  |

X-axis Label: **“DateTime” –** Label is a hyperlink: Click to open a popup to select Date

X-axis data: shows the date/time for y-axis values. Date format: MM/DD/YY

* + 1. Position monitoring /Table Report home page

Test objective:

Check Table Report for Postion monitoring feature

Test procedure:

On Position monitoring page, click TABLE button

Expected outcomes:

There are 2 options to view Table report:

+ Report with Position data

+ Report with Raw data

The default view is: Position data view

* + 1. Position monitoring /View Table report with Position data

Test objective:

Test Stress report when viewing in table view with heart rate data

Test procedure:

On Sleep monitoring page, click TABLE button

Click drop-down list and select Position data

Expected outcomes:

A table shows data:

|  |  |
| --- | --- |
| **Columns** | **Requirements** |
| Date/Time | Column header is a link. Click the link to open Popup Calendar.  Use this popup calendar to filter the date/time for data to show in table |
| Position |  |
| Alarm |  |

* + 1. Position monitoring /View Table report with Raw data

Test objective:

Test Position monitoring report when viewing in table view with Raw data

Test procedure:

On Position monitoring page, click TABLE button

Click drop down list and select Raw data

Expected outcomes:

A table shows data:

|  |  |
| --- | --- |
| **Categories** | **Requirements** |
| Date/Time | Column header is a link. Click the link to open Popup Calendar.  Use this popup calendar to filter the date/time for data to show in table |
| G-value X | variables |
| G-value Y | variables |
| G-value Z | variables |

* + 1. Position monitoring/Settings

Test objective:

Test setting page for Stress monitoring feature

Test procedure:

At the bottom of Position monitoring Graph/Table Report

Click Settings button to go to Position monitoring settings page

View or make change the settings

Click Save settings to save

Click Cancel to discard

Expected outcomes:

The Position monitoring settings include:

|  |  |
| --- | --- |
| **Settings** | **Requirements** |
| Sample rate | Enter a number.  Click drop-down list to select type of time: ms(millisecond)/sec(second)/min(minute)/hr(hour)  For example, the user can select a five minute interval for Sample rate |
| Alarm position | Select check box for positions user wishes to be alerted for  Supine  Prone  Left Lateral  Right Lateral  Up  DownSupine  Prone  Left Lateral  Right Lateral  Up  Down |

* 1. Feature 09: Fertility Monitoring
     1. Settings for Fertility monitoring feature

Test objective:

Test setting page for Fertility monitoring feature

Test procedure:

At the bottom of Fertility monitoring Graph/Table Report

Click Settings button to go to Fertility monitoring settings page

View or make change the settings

Click Save settings to save

Click Cancel to discard

Expected outcomes:

The Fertility monitoring settings include:

|  |  |
| --- | --- |
| **Settings** | **Requirements** |
| Input temperature | Click drop down list to select: Auto or Manual |

1. GLOSSARY

@PARAMETER: You have to enter a parameter after “@” character