# Use Case US2.001– Access the 'Threshold List' section

## TC.001 – Displaying the List of Defined Thresholds for a Vital Parameter

|  |  |  |
| --- | --- | --- |
| Precondition | The actor is logged in and has the access rights to use the functionality | |
| Step | Input | Result |
| 1 | Select the “Thresholds” option | The system displays a form for selecting parameters |
| 2 | Select a parameter from the “Vital Parameters” combobox | N/A |
| 3 | Click the “Search” button | The system searches for the defined thresholds for the selected parameter |
| 4 | N/A | The system displays the list of found thresholds |

## TC.002 – Inserting a New Threshold for a Vital Parameter

See TC.005.

## TC.003 – Alternative Scenario No.2

See TC.008

## TC.004 – Alternative Scenario No.3

See TC.014

# Use Case US1.002 – Insert threshold

## TC.005 – Insertion of a new threshold for a vital parameter.

|  |  |  |
| --- | --- | --- |
| Precondition | The actor is logged in and has the access rights to use the functionality. | |
| Step | Input | Result |
| 1 | Select the “Thresholds” option | The system displays a form for selecting parameters |
| 2 | Select a parameter from the “Vital Parameters” combobox | N/A |
| 3 | Click the “New Threshold” button | The system displays the form for entering the threshold fields. |
| 4 | Fill in the mandatory threshold fields and press the “Save” button | The system saves the new threshold. |
| 5 | N/A | The system displays the new threshold in the threshold list. |

## TC.006 – Cancel the threshold insertion operation.

|  |  |  |
| --- | --- | --- |
| Precondition | The actor is logged in and has the access rights to use the functionality. | |
| Step | Input | Result |
| 1 | Select the “Thresholds” option | The system displays a form for selecting parameters. |
| 2 | Select a parameter from the “Vital Parameters” combobox | N/A |
| 3 | Press the “New Threshold” button | The system displays the form for entering the threshold fields. |
| 4 | Fill in the mandatory threshold fields | N/A |
| 5 | Press the “Cancel” button | The system returns to displaying the list of thresholds. |

## TC.007 – Mandatory Fields Check for Threshold

|  |  |  |  |
| --- | --- | --- | --- |
| Precondition | L’attore è loggato e ha i diritti di accesso per usare la funzionalità. | | The actor is logged in and has access rights to use the functionality. |
| Step | Input | Result |
| 1 | Select the “Thresholds” option | The system displays a form for selecting parameters |
| 2 | Select a parameter from the “Vital Parameters” combobox | N/A |
| 3 | Press the “New Threshold” button | The system displays the form for entering threshold fields. |
| 4 | Leave the “Minimum Threshold” or “Maximum Threshold” field empty and press the “Save” button | The system displays an error message “Please enter at least one threshold value”. |

# Use Case US1.003– Display threshold details

## TC.008 – Display details of a defined threshold for a vital parameter

|  |  |  |
| --- | --- | --- |
| Precondition | Test case TC.001 has been successfully executed | |
| Step | Input | Result |
| 1 | Select a threshold from the list | The System searches for the threshold details |
| 2 | N/A | The System displays the details of the selected threshold. |

## TC.009 –Modifica i campi di una soglia

See TC.011

## TC.010 – Delete a threshold

See TC.014

# Use Case US1.004 – Update threshold

## TC.011 – Update the values of a threshold

|  |  |  |
| --- | --- | --- |
| Precondition | The test case TC.008 has been successfully executed. | |
| Step | Input | Result |
| 1 | Press the "Edit" button | The system makes the threshold fields editable. |
| 2 | Update the fields of interest, ensuring that all mandatory fields are filled in. |  |
| 3 | Press the "Save" button | The system saves the changes. |
| 4 | N/A | The system displays the updated list of thresholds. |

## TC.012 – Cancel Threshold Modification

|  |  |  |
| --- | --- | --- |
| Precondition | Test case TC.008 has been successfully executed | |
| Step | Input | Result |
| 1 | Press the "Edit" button | The system makes the threshold fields editable |
| 2 | Press the "Cancel" button | The system returns to the threshold list. |

## TC.013 – Control of mandatory fields for a modified threshold

|  |  |  |
| --- | --- | --- |
| Precondition | The test case TC.008 has been successfully executed | |
| Step | Input | Result |
| 1 | Press the “Edit” button | The system makes the threshold fields editable |
| 2 | Modify the fields of interest but leave the “Minimum Threshold” or “Maximum Threshold” field empty |  |
| 3 | Press the “Save” button | The system displays an error message “Enter at least one threshold value”. |

# Use Case US1.005– Delete a threshold

## TC.014 – Delete a threshold

|  |  |  |
| --- | --- | --- |
| Precondition | Test case TC.008 has been successfully executed. | |
| Step | Input | Result |
| 1 | Press the “Delete” button | The System displays a confirmation window. |
| 2 | Press the “Confirm” button | I The System deletes the threshold. |
| 3 | N/A | The System displays the message “Threshold successfully deleted.” |
| 4 | Press the “Ok” button on the message. | The System displays the updated list of thresholds. |

## TC.015 – Undo Threshold Deletion

|  |  |  |
| --- | --- | --- |
| Precondition | Test case TC.008 has been successfully executed. | |
| Step | Input | Result |
| 1 | Press the "Delete" button | The system displays a confirmation window. |
| 2 | Press the "Cancel" button | The system displays the updated list of thresholds. |

# Use Case US2.001 – Measurements taken

## TC.016 - Display Vital Signs Measurements

|  |  |  |
| --- | --- | --- |
| Precondition | The user is correctly logged in and has access rights to the functionality. There is at least one measurement for a vital sign. | |
| Step | Input | Result |
| 1 | Select the "Measurements" option | The System searches for the measurements |
| 2 | N/A | The System displays the latest measurements for each vital sign. |

## TC.017 – Display measurement chart

See TC.018

# Use Case US2.002 – Display measurement graphs

## TC.018 – Display Measurement Chart

|  |  |  |
| --- | --- | --- |
| Precondition | TC.016 has been successfully executed | |
| Step | Input | Result |
| 1 | Select the "Measurement Chart" option for a specific parameter. | The system retrieves the measurement data for the selected parameter. |
| 2 | N/A | The system displays two graphs: 1) a plot showing the trend of measurements for the selected parameter; 2) a stacked histogram with the minimum and maximum values for the days of the last week. |

# Use Case US2.003 – View Alert

## TC.019 – View Alert

|  |  |  |
| --- | --- | --- |
| Precondition | The user is correctly logged in and has the rights to use the functionality. There is at least one alert in the database. | |
| Step | Input | Result |
| 1 | Select the "Alerts" option | The system searches for alerts related to abnormal measurements. |
| 2 | N/A | The system displays the list of alerts related to abnormal measurements. |
| 3 | Navigate the results using the pagination bar. | The system allows viewing of the selected page. |

## TC.020 – Measurement Detail Visualization

|  |  |  |
| --- | --- | --- |
| Precondition | The user is correctly logged in and has the rights to use the functionality. There is at least one alert in the database. | |
| Step | Input | Result |
| 1 | Select the “Alerts” option | The system searches for alerts related to abnormal measurements. |
| 2 | N/A | The system displays the list of alerts related to abnormal measurements. |
| 3 | Select an alert from the list | The system retrieves the measurement details. |
| 4 | N/A | The system displays a popup with the details of the measurement to which the alert refers. |

## TC.021 – Alert Resolution

|  |  |  |
| --- | --- | --- |
| Precondition | The user is correctly logged in and has the rights to use the functionality. There is at least one alert in the database. | |
| Step | Input | Result |
| 1 | Select the “Alerts” option | The system searches for alerts related to abnormal measurements |
| 2 | N/A | The system displays the list of alerts related to abnormal measurements. |
| 3 | Press the “Resolve” button for a specific alert in the list. | The system changes the status of the alert to “Resolved” |

# Use Case US3.001 – Record the exit of the patient from the security area

## TC.022 – Recording a Patient's Exit from the Safety Area

|  |  |  |
| --- | --- | --- |
| Precondition | The smartwatch is correctly configured and assigned to the patient. The smartwatch is properly worn. The "reference position" and the maximum distance from the position are set to 10 meters. | |
| Step | Input | Result |
| 1 | Move more than 10 meters away from the reference position. | The smartwatch signals the patient's departure. |
| 2 | N/A | The system records the event in the patient's medical record. |
| 3 | N/A | The system sends a notification to the medical staff that the patient has left the safety area. |
| 4 | The medical staff receives a notification on their smartphone. | N/A |

# Use Case US3.002 – Patient’s steps count

## TC.023 – Patient Step Count

|  |  |  |
| --- | --- | --- |
| Precondition | The smartwatch is correctly configured and assigned to the patient. The number of minutes for sending step data to the central system is set to 2 minutes. | |
| Step | Input | Result |
| 1 | Move about ten meters from the initial position. | The smartwatch records the steps taken. |
| 2 | Wait 2 minutes. | The smartwatch sends the information regarding the number of steps taken and the corresponding time to the system. |
| 3 | N/A | The system records the information in the patient's medical record. |