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

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

|  |  |  |
| --- | --- | --- |
| Precondition | The actor has logged in with their credentials. The actor has the necessary authorization to use the functionality. At least one threshold for the vital parameter "Heart Rate" is defined in the system. | |
| Actors | GP, Relative. | |
| Step | Input | Result |
| 1 | Select the "Thresholds" menu item | The system displays a form to choose the vital parameters |
| 2 | Select the "Heart Rate" parameter from the "Vital Parameters" list |  |
| 3 | Press the "Search" button | The system searches for the thresholds associated with "Heart Rate" |
| 4 | N/A | The system displays the list of thresholds related to "Heart Rate" |

# Use Case US1.002 – Insert threshold

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

|  |  |  |
| --- | --- | --- |
| Precondition | The actor has logged in with their credentials. The actor has the necessary authorization to use the functionality. | |
| Actors | GP, Relative. | |
| Step | Input | Result |
| 1 | Select the "Thresholds" menu item | The system displays a form to choose the vital parameters |
| 2 | Select the "Heart Rate" parameter from the "Vital Parameters" list | N/A |
| 3 | Press the "New Threshold" button” | The system displays the form to enter the threshold field values. |
| 4 | Fill in the mandatory threshold fields | N/A |
| 5 | Press the "Save" button | The system saves the new threshold. |
| 6 | N/A | The system displays the updated list of thresholds related to "Heart Rate" |

## TC.003 – Cancel the Threshold Entry Operation.

|  |  |  |
| --- | --- | --- |
| Precondition | The actor has logged in with their credentials. The actor has the necessary authorization to use the functionality. | |
| Actors | GP, Relative. | |
| Step | Input | Result |
| 1 | Select the "Thresholds" menu item | The system displays a form to choose vital parameters |
| 2 | Select the "Heart Rate" parameter from the "Vital Parameters" list | N/A |
| 3 | Press the "New Threshold" button” | The system displays the form to enter the threshold field values |
| 4 | Fill in the mandatory threshold fields | N/A |
| 5 | Press the "Cancel" button | The system displays the list of thresholds |

## TC.004 – Missing Mandatory Threshold Fields

|  |  |  |
| --- | --- | --- |
| Precondition | The actor is logged in and has the access rights to use the functionality. | |
| Actors | GP, Relative. | |
| Step | Input | Result |
| 1 | Select the menu item “Thresholds” | The system displays a form to choose the vital parameters. |
| 2 | Select the parameter “Heart Rate” from the list of “Vital Parameters” | N/A |
| 3 | Press the “New Threshold” button | The system shows the form for entering the threshold fields. |
| 4 | Do not fill in the “Minimum Threshold” or “Maximum Threshold” field | N/A |
| 5 | 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.005 – Displaying Details of a Threshold for a Vital Parameter

|  |  |  |
| --- | --- | --- |
| Precondition | TC.001 test has been successfully executed. | |
| Actors | GP, Relative. | |
| Step | Input | Result |
| 1 | Click the link related to a threshold in the list | The System searches for the threshold details |
| 2 | N/A | The System displays the details of the chosen threshold. |

# Use Case US1.004 – Update threshold

## TC.006 – Modification of Threshold Values

|  |  |  |
| --- | --- | --- |
| Precondition | The test TC.005 has been successfully executed. | |
| Actors | GP, Relative. | |
| Step | Input | Result |
| 1 | Press the "Modify" button | The system allows modification of the threshold fields. |
| 2 | Fill in all mandatory fields and optionally the non-mandatory ones |  |
| 3 | Press the "Save" button | The system saves the modified threshold values. |
| 4 | N/A | The system displays the updated list of thresholds. |

## TC.007 – Cancel threshold modification

|  |  |  |
| --- | --- | --- |
| Precondition | Test TC.005 has been successfully executed | |
| Actors | GP, Relative. | |
| Step | Input | Result |
| 1 | Press the “Modify” button | The system allows the threshold fields to be modified |
| 2 | Press the “Cancel” button | The system displays the list of thresholds again. |

## TC.008 – Missing mandatory fields of a threshold

|  |  |  |
| --- | --- | --- |
| Precondition | Test case TC.005 has been successfully executed | |
| Actors | GP, Relative. | |
| Step | Input | Result |
| 1 | Press the “Edit” button | The system allows editing the threshold fields |
| 2 | Do not fill in the “Minimum threshold” field or the “Maximum threshold” field |  |
| 3 | Press the “Save” button | N/A |
| 4 | N/A | The system displays the error message: “Please enter at least one threshold value”. |

# Use Case US1.005– Delete a threshold

## TC.009 – Delete a threshold

|  |  |  |
| --- | --- | --- |
| Precondition | Test case TC.005 has been successfully executed. | |
| Actors | GP, Relative. | |
| Step | Input | Result |
| 1 | Press the "Confirm" button | The system displays a confirmation dialog containing the buttons "Delete" and "Confirm". |
| 2 | Premere il bottone “Conferma” | The system deletes the threshold from the database. |
| 3 | N/A | The system displays the message: "Threshold successfully deleted." |
| 4 | N/A | The system displays the updated list of thresholds. |

## TC.010 – Cancel Deletion of a Threshold

|  |  |  |
| --- | --- | --- |
| Precondition | Test case TC.005 has been successfully executed. | |
| Actors | GP, Relative. | |
| Step | Input | Result |
| 1 | Press the "Delete" button | The system displays a confirmation dialog containing the "Delete" and "Confirm" buttons. |
| 2 | Press the "Cancel" button | The system displays the updated list of thresholds. |

# Use Case US2.001 – Measurements taken

## TC.011 – Display of Vital Signs Measurements

|  |  |  |
| --- | --- | --- |
| Precondition | The actor has logged in with their credentials. The actor has the necessary authorization to use the functionality. There is at least one measurement in the database related to "Heart Rate." | |
| Actors | GP, Relative. | |
| Step | Input | Result |
| 1 | Select the "Measurements" menu item | The System searches for measurements of vital signs. |
| 2 | N/A | The System displays the latest measurements for each vital sign, particularly for heart rate. |

# Use Case US2.002 – Display measurement graphs

## TC.012 – Display Measurement graphs

|  |  |  |
| --- | --- | --- |
| Precondition | TC.011 has been successfully executed. | |
| Actors | GP, Relative. | |
| Step | Input | Result |
| 1 | Select the "Measurement Chart" link related to "Heart Rate" | The System searches for the measurement data for heart rate. |
| 2 | N/A | The System displays the chart showing the trend of heart rate measurements and the histogram of measurements recorded for the days of the last week. |

# Use Case US2.003 – View Alert

## TC.013 – Display Alert for Abnormal Measurements

|  |  |  |
| --- | --- | --- |
| Precondition | The actor has logged in with their credentials. The actor has the necessary authorization to use the functionality. There is at least one alert in the database related to an abnormal heart rate measurement. | |
| Actors | GP, Relative. | |
| Step | Input | Result |
| 1 | Select the "Alerts" menu item | The system searches for alerts related to abnormal measurements |
| 2 | N/A | The system displays the list of alerts related to abnormal measurements. |
| 3 | Choose a specific page using the navigation bar. | The system displays the chosen page. |

## TC.014 – Viewing Details of an Anomalous Measurement

|  |  |  |
| --- | --- | --- |
| Precondition | The actor has logged in with their credentials. The actor has the necessary permissions to use the functionality. There is at least one alert in the database related to an anomalous heart rate measurement. | |
| Actors | GP, Relative. | |
| Step | Input | Result |
| 1 | Select the "Alerts" menu item | The system searches for alerts related to anomalous measurements |
| 2 | N/A | The system displays the list of alerts related to anomalous measurements. |
| 3 | Select an alert from the list | The system retrieves the measurement values |
| 4 | N/A | The system displays a window with the details of the measurement related to the alert |

## TC.015 – Change Alert Status

|  |  |  |
| --- | --- | --- |
| Precondition | The actor has logged in with their credentials. The actor has the necessary authorization to use the functionality. There is at least one alert in the database related to an abnormal heart rate measurement. | |
| Actors | GP, Relative. | |
| Step | Input | Result |
| 1 | Select the “Alerts” menu item | 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, marking it as “Resolved” |

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

## TC.016 – Patient Exiting the Safety Area

|  |  |  |
| --- | --- | --- |
| Precondition | The smartwatch is correctly configured and paired with the patient. The "reference position" and the maximum distance from this position are set to 15 meters. | |
| Actors | Device | |
| Step | Input | Result |
| 1 | Move 15 meters away from the residence. | The smartwatch sends the patient departure event to the central system. |
| 2 | N/A | The system logs the event in the patient's medical record. |
| 3 | N/A | The system sends a notification to the medical staff, indicating that the patient has exited the safety area. |
| 4 | The medical staff receives the notification on their smartphone. | N/A |

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

## TC.017 – Recording the number of steps taken by a patient

|  |  |  |
| --- | --- | --- |
| Precondition | The smartwatch is correctly configured and paired with the patient. The frequency of sending step data to the central system is set to 5 minutes. | |
| Actors | Device | |
| Step | Input | Result |
| 1 | Take at least 15 steps. | The smartwatch counts the steps taken. |
| 2 | Wait at least 5 minutes. | The smartwatch sends the sequence of steps taken with the reference time to the central system.. |
| 3 | N/A | The system records the sequence of steps in the patient's medical record. |