Test Plan

Project Topic: Health Monitoring System

Audrey Harcum

Blake Green

Brandon Sroufe

Todd Weber

Revision 1.7

CMSC 495 6380

22 September 2020

Group 4

# Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| Revision Number | Date | Description | Name |
| 1.0 | 9/16/2020 | First draft created by Blake | Blake |
| 1.1 | 9/18/2020 | UPDATE: Added a new proposed test table layout, populated each testcase with corresponding event-trace diagrams, created test table to include potential error handling events. Updated table of contents to proposed layout. | Audrey |
| 1.2 | 9/18/2020 | UPDATE: Merged Brandon and Audrey’s proposed Test Plans, took out Blake’s empty table to place in Brandon’s. Table of Contents will reflect quick change but easy to revert. Also updated color scheme in table to match the consistency (it looks like it was alternating colors then stopped in v1.1.1). Updated Requirement number’s in Audrey’s proposal to reflect. | Audrey, Brandon |
| 1.3 | 9/19/2020 | UPDATE: Implement changes discussed during weekly Zoom meeting. | Brandon |
| 1.4 | 9/19/2020 | UPDATE: Fixed Table of contents to remove Audrey’s proposed table. Updated table numbers and minor format changes. | Audrey |
| 1.5 | 9/20/2020 | UPDATE: Made some wording changes | Todd |
| 1.6 | 9/21/2020 | Update: Minor wording changes and test plan review. | Blake |
| 1.7 | 9/22/2020 | UPDATE: Updated numbering in table | Brandon |

Table of Contents

[Revision History 2](#_Toc51418806)

[Test Plan 4](#_Toc51418807)

[Notes 7](#_Toc51418808)

# Test Plan

This test plan lists all test cases with each test case corresponding to an event-trace diagram. Also, in each test case, we list requirements that are met by this test case; we then check to make sure all requirements are covered by our test cases. Lastly, we make sure that there are test cases that handle errors, such as unexpected or invalid input values, to see if our design can handle those situations gracefully. In the real world, the design is done by one team, and the test plan is developed by another team (called test team), and this test team might not have access to the design document while developing the test plan. If the design document is available, the test team would use it together with the functional requirements document to develop the test plan, i.e. the test team does not rely blindly on the design document. If the design document is not available, then the test team must rely on the functional requirements alone to develop test cases on both normal operations and error-handling operations.

| Test Case | Requirement Number | Test Description | Expected Result | Method of Verification | Pass/Fail |
| --- | --- | --- | --- | --- | --- |
|  | | | | | |
| 1 | 1, 2, 6, 9 | Scenario 1: Create Profile: Successful –  Valid username and password combination are entered “Create User” button is pressed. | New User account is created. User is able to see and interact with main UI. | Demonstration |  |
| 2 | 1, 2, 6, 10 | Scenario 2: Create Profile: Unsuccessful: Username does not meet minimum requirements --  “Create User” button is pressed. | Error is displayed: “Username does not meet minimum requirements” | Demonstration |  |
| 3 | 1, 2, 9, 12, 15 | Scenario 2: Create Profile : Unsuccessful : Password Insufficient --  Unique username is entered, password that does not meet minimum requirements is entered. “Create User” button is pressed. | Error is displayed: “Password does not meet minimum requirements”. User is blocked from seeing and interacting with main UI. | Demonstration |  |
| 4 | 1, 2, 8 | Scenario 3: Log On : Successful --  Valid username and password combination are entered, “Login” button is pressed. | User credentials are verified; user is able to see and interact with the main UI. | Demonstration |  |
| 5 | 1, 2, 8, 11, 12 | Scenario 4: Log On : Unsuccessful Password –  Valid username and, invalid associated password are entered.  “Login” button is pressed. | Error is displayed: “Invalid username or password”. User is blocked from seeing and interacting with main UI. | Demonstration |  |
| 6 | 1, 2, 8, 11, 12 | Scenario 4: Log On : Unsuccessful --  Username Invalid username is entered.  “Login” button is pressed. | Error is displayed: “Invalid username or password”. User is blocked from seeing and interacting with main UI. | Demonstration |  |
| 7 | 1, 2, 6, 14 | Scenario 5: Successful Log On : Delete User : Approve Operation –  “Delete User” is selected from main UI menu bar. | User profile and all associated data is deleted from database. Login UI is displayed. | Analysis |  |
| 8 | 1, 2, 6, 14 | Scenario 5: Successful Log On : Delete User : Cancel Operation –  When verification to delete popup is displayed, user selects “Cancel”. | Operation is cancelled. Main UI is displayed. | Demonstration |  |
| 9 | 1, 2, 7 | Scenario 6: Successful Log On : Log Off –  “Log Off” is selected from main UI menu bar. | Main UI is closed. Login UI is displayed. | Demonstration |  |
| 10 | 1, 2, 5, 16 | Scenario 7: Successful Log On: Update GOAL / Biometrics –  User enters updated GOAL/Biometric data and presses “UPDATE” button. | User GOAL/Biometric data is updated in the database. Updated data is displayed in main UI. | Demonstration / Analysis |  |
| 11 | 3 | Scenario 8: Successful Log On : Time/Date Displayed –  User provides valid credentials and presses “Login” button; main UI is displayed. | Time and date are displayed on main UI. | Demonstration |  |
| 12 | 4 | Scenario 9: Display User Name --  User provides valid credentials and presses “Login” button; main UI is displayed. | Username of authenticated user is displayed on main UI. | Demonstration |  |
| 13 | 13 | Scenario 10: Display GOAL/Biometric data –  User provides valid credentials and presses “Login” button; main UI is displayed. | Most recent saved GOAL/Biometric data parameters are retrieved and displayed in main UI. | Demonstration |  |
| 14 | 17 | Scenario 12: Display GOAL Analysis –  User provides valid credentials and presses “Login” button; main UI is displayed. | GOAL Analysis pane of main UI displays GOAL Analysis based upon saved GOAL/Biometric data. | Demonstration / Analysis |  |
| 15 | 18 | User provides valid credentials and presses “Login” button; main UI is displayed. | Progress Chart pane of main UI displays historical GOAL/Biometric data. | Demonstration / Analysis |  |
| 16 | 19 | User provides valid credentials and presses “Login” button; main UI is displayed. | Current Stats pane of main UI is populated with associated GOAL/Biometric data from database. | Demonstration / Analysis |  |

# Notes

1. The Pass/Fail column will be filled out when it is time to carry out the tests.
2. Notes will be added as demonstrations are populated.