**Lab III - Prototype Test Plan**

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1. **Objectives**

This Prototype Test plan describes the approach to testing the Warrior Hope application. The testing shall demonstrate successful operation of the Warrior Hope application and show how Warrior Hope can be used by military service members to interact with each other as a way of providing mental health support. Warrior Hope is a web application with user interfaces that allow for confidential discussion with other members. The procedures described in this document will demonstrate the safe, confidential, and interactive properties of the Warrior Hope application.

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# Test Plan

**Test Case 1.1.1 - New Account Registration**

**Specification Reference:** 3.1.1 - New Account Registration

**Test Description:** This test will verify that a new user shall be able to register an account with Warrior Hope. The prospective user must be an active or retired service member and have an account with ID.me.

**Initialization:**

1. Obtain ID.me username and password for one user.
2. Create Warrior Hope username and password to register the chosen user.
3. Open a web browser.

**Test Inputs:**

**ID.me username:** vet

**ID.me password:** vet

**Warrior Hope username:** TestUser

**Warrior Hope password:** TestPass

**Test Procedure:**

1. Navigate to the home page <http://411crystal.cpi.cs.odu.edu:3000/>
2. Click the register button.
3. Click the on ID.me button.
4. Enter ID.me username and password for user.
5. Enter Warrior Hope username, password, and email to register the user.
6. Enter registered Warrior Hope username and password to login.
7. Repeat steps 1-6 using an invalid formatted email address.
8. Enter a confirmation password that does not match password
9. Navigate to [http://411crystal.cpi.cs.odu.edu:3000/registration?code1987](http://411crystal.cpi.cs.odu.edu:3000/).
10. Enter registered Warrior Hope username and password to login.

**Expected Results:**

1. Redirected to Warrior Hope home page.
2. Redirected to the registration page.
3. Redirected to simulated ID.me page.
4. Redirected to the Warrior Hope registration page.
5. Redirected to Warrior Hope login page.
6. Redirected to the Warrior Hope user landing page.
7. Verify that the user is not registered and a message stating an invalid email address was used is displayed. The user is allowed to re-enter information.
8. Verify that the user is not registered and a message stating that the passwords do not match is displayed. The user is allow to re-enter information.
9. Redirected to Warrior Hope registration page.
10. Verify that the user is not registered and a message stating that the ID credentials are invalid.

**Special Instructions:** None

(O: Phillmon M1: Jackson, M2: Reed, M3:Panagiotopoulou)

**Test Case** 1.1.2- Change Email

**Specification Reference:** 3.1.2 - User Account Page

**Test Description:** To verify that a user can change their email.

**Initialization:**

1. Obtain the requirements document.
2. Obtain the email and password of a user.
3. Open a web browser.
4. Navigate to http://411crystal.cs.odu.edu:3000/
5. Click the login button on the home page.
6. Browser redirects to sign in page.
7. Enter the credentials of the user.
8. Click Account in the Navigation bar drop down.

**Test Inputs:**

**Username:** The username of a registered Warrior Hope user.

**Password:** The password of a registered Warrior Hope user.

**Unregistered email:** Used to change your email address.

**Test Procedure:**

1. Click on the Change Email button.
2. Enter the new Email into the first box and the confirmation box.
3. Click Submit.

**Expected Results:**

1. The user is redirected to the Change Email page.
2. The user can enter text into the boxes.
3. The user is presented with a message of success.

**Special Instructions:**

(O: Littlefield, M1: Panagiotopoulou)

**Test Case 1.1.3 -** Change Password

**Specification Reference:** 3.1.2 - User Account Page

**Test Description:** This test will verify that a user can change his/her password.

**Initialization:**

1. Obtain the username and password of a registered user.
2. Open a web browser.
3. Navigate to the home page <http://411crystal.cpi.cs.odu.edu:3000/>.
4. Click the login button on the home page.
5. Browser redirects to the sign in page.
6. Enter username and password credentials.
7. Click submit and the browser redirects to the user landing page.
8. Click Account in the navigation bar dropdown menu.
9. Click the “Change Email” button.

**Test Inputs:**

Username: the username of a registered user.

Password: the password of a registered user.

New password: the password to be used to replace the current password.

**Test Procedure:**

1. Click the Change My Password button.
2. Enter the new password in the first text box and repeat in the second text box.
3. Click the submit button.

**Expected Results:**

1. The browser redirects to the change password page.
2. The user can enter the password into the text boxes.
3. The user is given a “success” message.

**Special Instructions:** None

(O: Jackson)

**Test Case 1.1.4 -** User Post History

**Specification Reference:** 3.1.2 - User Account Page

**Test Description:** To verify the user can view his or her discussion post history.

**Initialization:**

1. Obtain the username and password credentials for a registered user.
2. Navigate to the home page <http://411crystal.cpi.cs.odu.edu:3000/>.
3. Click the login button on the home page.
4. Browser redirects to the sign in page.
5. Enter the username and password credentials of a registered user.
6. Browser redirects to the user landing page.
7. Click Account in the navigation bar dropdown menu.

**Test Inputs:**

Username: the username of a registered user.

Password: the password of a registered user.

**Test Procedure:**

Click the My Post History button.

1. View list of user created discussion posts.
2. Sort discussion posts by date in ascending order.
3. Sort discussion posts by date in descending order.

**Expected Results:**

1. Browser redirects to the Post History page.
2. All user created posts appear on the web page.
3. Discussion posts automatically sorted by date in ascending order.
4. Discussion posts automatically sorted by date in descending order.

**Special Instructions:** None

(O: Jackson)

**Test Case 1.2.1 - User Reporting Functionality**

**Specification Reference:** 3.1.2.1 - User Reporting

**Test Description:** This test will verify that a user shall be able to report another user for an inappropriate post or private message. The user shall not be allowed to report another user for the same post and can revoke the report in case it was accidental.

**Initialization:**

1. Open a web browser.

**Test Inputs:** None

**Test Procedure:**

**Expected Results:**

**Special Instructions:** None

(O: Phillmon)

**Test Case 1.2.2.1 - Censoring Messages**

**Specification Reference:** 3.1.2.2 - Censoring Messages

**Test Description:** To verify that a Moderator account can remove inappropriate messages.

**Initialization:**

1. Obtain the requirements document.
2. Obtain the email and password of a Moderator.
3. Open a web browser.
4. Navigate to http://411crystal.cs.odu.edu:3000/
5. Click the login button on the home page.
6. Enter the credentials of a Moderator.
7. Navigate to http://411crystal.cs.odu.edu:3000/reported\_messages

**Test Inputs:**

**Username(Moderator):** The username of a registered Warrior Hope moderator.

**Password(Moderator):** The password of a registered Warrior Hope moderator.

**Offensive Message:** “Butt”

**Test Procedure:**

1. Click the “Remove Message” button to censor the message.

**Expected Results:**

1. The reported message is deleted from the database; The message is removed from the forum and the reported messages page.

**Special Instructions:** None

(O: Littlefield)

**Test Case 1.2.3 - Moderator Review**

**Specification Reference:** 3.1.2.3 - Moderator Review

**Test Description:** This test will verify that a Moderator shall be able to view reported messages. Non-Moderator accounts should not be able to view these reports.

**Initialization:**

1. Obtain the requirements document.
2. Obtain the email and password of a Moderator.
3. Obtain the email and password of a non-Moderator.
4. Open a web browser.

**Test Inputs:**

**Username(Non-Moderator):** The username of a registered Warrior Hope user.

**Password(Non-Moderator):** The password of a registered Warrior Hope user.

**Username(Moderator):** The username of a registered Warrior Hope moderator.

**Password(Moderator):** The password of a registered Warrior Hope moderator.

**Test Procedure:**

1. Navigate to http://411crystal.cs.odu.edu:3000/
2. Click the login button on the home page.
3. Enter the credentials of a non-Moderator.
4. Log out from non-Moderator account.
5. Enter the credentials of a Moderator.
6. Log out from the Moderator account.
7. Navigate to <http://411crystal.cs.odu.edu:3000/reported_messages>
8. Enter the credentials of a non-Moderator.
9. Navigate to http://411crystal.cs.odu.edu:3000/reported\_messages

**Expected Results:**

1. Warrior Hope home page appears.
2. Login page appears.
3. Application verifies the user but does not add the additional drop down to view reported messages.
4. The user is returned to the home page and is successfully logged out of the non-Moderator account.
5. Application verifies the user and adds an additional drop down to view reported messages.
6. The user is returned to the home page and is successfully logged out of the Moderator account.
7. The user is directed to http://411crystal.cs.odu.edu:3000/login with an error message asking them to log in with a Moderator account
8. Application verifies the user but does not add the additional drop down to view reported messages.
9. The user is directed to http://411crystal.cs.odu.edu:3000/login with an error message asking them to log in with a Moderator account

**Special Instructions:** None

(O: Littlefield)

**Test Case 1.2.4 - Automatic Moderation**

**Specification Reference:** 3.1.2.4 - Automatic Moderation

**Test Description:** This test will verify that the automatic moderation provided by the “Text Toxicity Detection” machine learning algorithm functions correctly.

**Initialization:**

1. Open a web browser.

**Test Inputs:**

**Username:** The username of a registered Warrior Hope user.

**Password:** The password of a registered Warrior Hope user.

**Acceptable Message:** “Hey everyone!”

**Offensive Message:** “You suck.”

**Test Procedure:**

1. Navigate to http://411crystal.cpi.cs.odu.edu:3000.
2. Click the login button on the home page.
3. Browser redirects to the sign in page.
4. Enter username and password credentials.
5. Click the user icon and then live chat.
6. Enter an offensive message as a post in the live chat.
7. Edit offensive message to be accepted.

**Expected Results:**

1. Redirected to the Warrior Hope login page.
2. Redirected to the Warrior Hope homepage.
3. Redirected to the live chat page.
4. Censor message and display “Offensive messages are prohibited!” to the user.
5. Message box is not cleared and the user can edit the message.
6. Edited message is accepted.

**Special Instructions:**

(O: Phillmon, M1: Lapira, M2: Argenbright)

**Test Case 1.3.1 - Live Chat**

**Specification Reference:** [3.1.3.1](https://docs.google.com/document/d/1UUdt0_uI5IYiCbSBNT2yWWA4Iqa7qM_k/edit#heading=h.2dlolyb) - Live Chat

**Test Description:** This test will check a user’s ability to view and interact with the live chat.

**Initialization:**

1. Open a web browser.

2. Obtain credentials of a registered Warrior Hope user.

**Test Inputs:**

1. The username of a registered Warrior Hope user.

2. The password of a registered Warrior Hope user.

3. The text-based message to be sent in the chat window.

**Test Procedure:**

1. Navigate to http://411crystal.cpi.cs.odu.edu:3000/signin

2. Navigate to http://411crystal.cpi.cs.odu.edu:3000/chat

3. Send a text based message in the chat.

4. View members present in the chat.

**Expected Results:**

1. The browser redirects to the signin web page.

2. The browser redirects to the chat web page.

3. The new chat message appears in the chat window with the associated username along with the date and time the message was submitted.

4. The chat page displays the usernames and icons of all members and moderator(s) currently present in the live chat session. Each username is displayed adjacent to its respective purple user icon. Each moderator is displayed adjacent to its respective yellow user icon.

**Special Instructions:** None.

(O: Jackson, M1: Argenbright)

**Test Case 1.3.2 – Group Creation**

**Specification Reference: 3.1.3.2 –** Create New Group

**Test Description:** Test the system’s ability to create a new discussion group to prevent an active discussion group from exceeding 16 users. This test will verify that the system creates a new discussion group and moves the most recent members to the new group. A moderator will automatically be assigned. The first group shall not exceed 16 members and the new group shall not have fewer than 5 members.

**Initialization:**

1. Generate an initial test discussion group with 5 users with mental condition ‘A’ with a moderator assigned.

2. Generate an additional test user population of 25 users with the same mental health condition ‘A’.

3. Generate at least 2 available moderators.

**Test Procedure:**

1. Sequentially add 7 users to the active discussion group.

2. Sequentially add 4 more users to the active discussion group.

3. Assign 1 user to the group.

4. Sequentially add the remaining 13 users.

**Expected Results:**

1. All 7 users are added into the group and no additional groups are created. Current member count should be 12, not including the moderator.

2. All 4 users added with no additional group created. Each of these 4 users are notified that this group is temporary until more users sign on.

3. A new group is created. The user added in this step, plus the 4 users from the previous step are moved to the new group. An available moderator is assigned to the new group. The moderator is informed of the new group at the next login. The new group size should be 5, the original group 12, not including the moderators.

4. A total of 3 groups exist. The first group contains 12 members. The second group contains 12 members. The third group contains 6 members. These member counts do not include the moderator. All groups have a moderator assigned.

**Special Instructions:**

(T. Reed)

**Test Case 1.3.3 – Group Merge**

**Specification Reference: 3.1.3.3 –** Merge Small Groups

**Test Description:** Test the system’s ability to merge two groups whenever a group contains less than 5 active members, not including the moderator. This amount of member is achieved when a member reaches the threshold for inactivity and is removed from the group. This test will ensure that groups do not contain less than 5 members if another group is available, and the merged group will not contain more than 16 members.

**Initialization:**

1. Generate two groups containing 6 members each with health condition ‘A’ and an assigned moderator. One group is the group to lose members and the other group is the group to be merged with.

2. Generate an additional group with 5 members with health condition ‘B’.

3. Generate an additional group with 12 members with health condition ‘A’ and an assigned moderator.

**Test Procedure:**

1. Set one member of the first group inactive.

2. Set another member of the first group inactive.

**Expected Results:**

**1.** Inactive member is removed from the group. First group member count is 5, not including the moderator. No groups are merged.

2. Inactive member is removed from the group. First group merges with the other group of 6 members. One of the original moderators is assigned. The group with 12 members of health condition ‘A’ is not merged. The group with 5 members with health condition ‘B’ is not merged.

**Special Instructions:**

(T. Reed)

**Test Case 1.3.4 - Discussion Posts**

**Specification Reference: 3.1.3.4 - Discussion Board**

**Test Description:** This test will verify the discussion post displays the appropriate data associated with each user created message.

**Initialization:**

1. Open a web browser.

2. Obtain credentials of a registered Warrior Hope user.

**Test Inputs:**

1. The username of a registered Warrior Hope user.

2. The password of a registered Warrior Hope user.

3. Test message to be posted in the discussion forum.

**Test Procedure:**

1. Navigate to <http://411crystal.cpi.cs.odu.edu:3000>.
2. Click the login button.
3. Enter username and password credentials.
4. Click “My Groups” on the user landing page.
5. Click the link to the desired group.
6. Click the desired subforum.
7. Click the “create new post” button.
8. Enter the test message in the text box and submit the test message.

**Expected Results:**

1. The Warrior Hope landing page is displayed.
2. The browser redirects to http://411crystal.cpi.cs.odu.edu:3000/signin.
3. The browser redirects to the user landing page.
4. The groups assigned to the user are displayed.
5. The discussion forum is displayed.
6. The subforum is displayed.
7. The browser redirects to http://411crystal.cpi.cs.odu.edu:3000/createPost.
8. The browser redirects to a page with the newly created post. The following are displayed: the associated username, the date the post was submitted in MM/DD/YYYY format, and the time the post was submitted in HH:MM format.

**Special Instructions:** None

(O: Jackson)

**Test Case 1.3.5 - Discussion Thread Creation**

**Specification Reference:** 3.1.3.5 - Discussion Post

**Test Description:** To verify that a user can create and submit a new discussion thread.

**Initialization:**

1. Open a web browser.
2. Obtain valid username and password in Group 1.
3. Navigate to http://411crystal.cpi.cs.odu.edu:3000
4. Click the login button on the home page.
5. Enter the credentials and click log in.
6. Click My Group on the Home page.

**Test Inputs:**

**Username:** The username of a registered Warrior Hope user in Group 1.

**Password:** The password of the username.

**Thread Title:** “New Thread”

**Content Body:** “This is my first thread.”

**Test Procedure:**

1. Click the New Thread button.
2. Enter the Thread Title in the Title box, Content Body in the Body box, and click submit.

**Expected Results:**

1. Displays the Thread Creation window.
2. The user is redirected to a page containing their new thread, named after the Thread Title and containing the Content Body.

**Special Instructions:** (O: Littlefield)

**Test Case 1.3.6 - Replying to Discussions**

**Specification Reference:** 3.1.3.6 - Message Reply

**Test Description:** To verify that a user can send a message replying to a previously created message.

**Initialization:**

1. Open a web browser.
2. Obtain valid username and password in Group 1.
3. Navigate to http://411crystal.cpi.cs.odu.edu:3000
4. Click the login button on the home page.
5. Enter the credentials and click log in.
6. Click My Group on the Home page.
7. Click on the thread created in Test Case 1.3.5.

**Test Inputs:**

**Username:** The username of a registered Warrior Hope user in Group 1.

**Password:** The password of the username.

**Content Body:** “This is my first reply.”

**Test Procedure:**

1. Click on the Reply Button.
2. Enter the Content Body in the body box and click submit.

**Expected Results:**

1. Displays the Reply Creation window below the initial post.
2. The user is redirected to a page containing the initial thread and their reply containing the Content Body.

**Special Instructions:**

(O: Littlefield, M1: Lapira)

**Test Case 1.4.1 - Retake Assessments**

**Specification Reference:** 3.1.4.1 - Assessment Retake

**Test Description:** To verify that a user can take the initial assessment at any time.

**Initialization:**

1. Open a web browser.
2. Obtain valid username and password.
3. Navigate to http://411crystal.cpi.cs.odu.edu:3000
4. Click the login button on the home page.
5. Enter the credentials and click log in.
6. Click Account in the Navigation bar drop down.

**Test Inputs:**

**Username:** The username of a registered Warrior Hope user.

**Password:** The password of a registered Warrior Hope user.

**Test Procedure:**

1. Click on the Retake Assessment button.
2. Fill out the form and click submit (Procedure for test case 1.4.2).

**Expected Results:**

1. Redirected to the initial assessment page.
2. Expected outcome for test case 1.4.2.

**Special Instructions:**

(O: Littlefield)

**Test Case 1.4.2 - Initial Assessments**

**Specification Reference:** 3.1.4.2 - Initial assessment

**Test Description:** To verify that a user can take the initial assessment.

**Initialization:**

1. Open a web browser.
2. Obtain valid username and password.
3. Navigate to http://411crystal.cpi.cs.odu.edu:3000
4. Click the login button on the home page.
5. Enter the credentials and click log in.
6. Click Assessment in the Navigation bar drop down.

**Test Inputs:**

**Username:** The username of a registered Warrior Hope user.

**Password:** The password of a registered Warrior Hope user.

**Test Procedure:**

1. Click a radio button for the first question.
2. Repeat step 1. for each subsequent question.
3. Once all questions are answered Click the Submit button.

**Expected Results:**

1. The selected radio button will be filled.
2. Selection of subsequent question radio buttons does not affect previously selected answers.
3. The Assessment is scored and any relevant secondary assessments are loaded. The user is taken back to the home page.

**Special Instructions:**

(O: Littlefield)

**Test Case 1.5.1 - Access SAMHSA Treatment Locator**

**Specification Reference:** 3.1.5.1 - Substance Abuse and Mental Health Services (SAMHSA) Locator

**Test Description:** This test will verify that the SAMHSA locator button is accessible to all users from the home page, whether registered or not registered.

**Initialization:**

1. Open a web browser.

**Test Inputs:**

1. The username of a registered Warrior Hope user.

2. The password of a registered Warrior Hope user.

**Test Procedure:**

1. Navigate to http://411crystal.cpi.cs.odu.edu:3000.
2. Click the Treatment Locator button.
3. Navigate to <http://411crystal.cpi.cs.odu.edu:3000>.
4. Click Login
5. Enter login credentials
6. Click the Treatment Locator button.

**Expected Results:**

1. Redirected to Warrior Hope homepage.
2. Redirected to the SAMHSA Treatment Locator
3. Redirected to Warrior Hope homepage.
4. Redirected to Warrior Hope login page
5. Redirected to Warrior Hope landing page
6. Redirected to the SAMHSA Treatment Locator

**Special Instructions:** None

(O: Argenbright, M1: Phillmon, M:2 Jackson, M3: Reed)

**Test Case 1.5.2.1 - User Input Validation: Registration/Login with HTML Markup**

**Specification Reference:** 3.1.5.2 - Input Validation and Sanitation

**Test Description:** This test will verify that the application validates and sanitizes user input of symbols used for HTML markup (<, >, &, and ;) during registration and login.

**Initialization:**

1. Obtain ID.me username and password for one user.
2. Append ID.me username and password with character string “>&;<”.
3. Create Warrior Hope username and password to register the chosen user.
4. Append Warrior Hope username and password with character string “>&;<”.
5. Open web browser.­­­

**Test Inputs:**

**ID.me username:** vet

**ID.me password:** vet

**Warrior Hope username:** InputValidationHTML>&;<

**Warrior Hope password:** InputValidationHTML>&;<

**Test Procedure:**

1. Navigate to http://411crystal.cpi.cs.odu.edu:3000/registration and click the on ID.me button.
2. Enter appended ID.me username and password for user.
3. Enter appended Warrior Hope username and password to register user.
4. Click on the drop-down menu and select “Login”.
5. Enter appended Warrior Hope username and password to login.

**Expected Results:**

1. Redirected to simulated ID.me page.
2. Redirected to Warrior Hope registration page.
3. Redirected to the Warrior Hope homepage and display to the user that registration was successful.
4. Redirected to Warrior Hope login page.
5. Redirected to the Warrior Hope homepage and display that user is logged in.

**Special Instructions:** None

(O: Phillmon)

**Test Case 1.5.2.2 - User Input Validation: Registration/Login with SQL Statement**

**Specification Reference:** 3.1.5.2 - Input Validation and Sanitation

**Test Description:** This test will verify that the application validates and sanitizes user input that has SQL statement symbols (\* and ;) during registration and login.

**Initialization:**

1. Obtain ID.me username and password for one user.
2. Append ID.me username and password with character string “ SELECT \* FROM table;”.
3. Create Warrior Hope username and password to register the chosen user.
4. Append Warrior Hope username and password with character string “ SELECT \* FROM table;”.
5. Open web browser.

**Test Inputs:**

**ID.me username:** vet SELECT \* FROM table;

**ID.me password:** vet SELECT \* FROM table;

**Warrior Hope username:** InputValidationSQL SELECT \* FROM table;

**Warrior Hope password:** InputValidationSQL SELECT \* FROM table;

**Test Procedure:**

1. Navigate to http://411crystal.cpi.cs.odu.edu:3000/registration and click on the ID.me button.
2. Enter appended ID.me username and password for user.
3. Enter correct ID.me username and password for user.
4. Enter appended Warrior Hope username and password for user.
5. Enter correct Warrior Hope username and password to register user.
6. Click on the drop-down menu and select “Login”.
7. Enter appended Warrior Hope username and password for user.
8. Enter correct Warrior Hope username and password to login.

**Expected Results:**

1. Redirected to simulated ID.me page.
2. Display “Incorrect username/password”.
3. Redirected to Warrior Hope registration page.
4. Display “Incorrect username/password”.
5. Redirected to the Warrior Hope homepage and display to the user that registration was successful.
6. Redirected to Warrior Hope login page.
7. Display “Incorrect username/password”.
8. Redirected to the Warrior Hope homepage and display that user is logged in.

**Special Instructions:** None

(O: Phillmon)

**Test Case 2.1 - Browser Compatibility**

**Specification Reference:** 3.2.1 - Single Interface & 3.2.2 - Browser Compatibility

**Test Description:** This test will verify that the application is accessible as a single interface through four different browsers: (1) Google Chrome, (2) Microsoft Edge, (3) Apple Safari, and (4) Mozilla Firefox.

**Initialization:**

1. Open a Google Chrome browser window.
2. Open a Microsoft Edge browser window.
3. Open an Apple Safari browser window.
4. Open a Mozilla Firefox window.

**Test Inputs:** None

**Test Procedure:**

1. In the Google Chrome window, navigate to http://411crystal.cpi.cs.odu.edu:3000.
2. In the Microsoft Edge window, navigate to http://411crystal.cpi.cs.odu.edu:3000.
3. In the Apple Safari window, navigate to <http://411crystal.cpi.cs.odu.edu:3000>.
4. In the Mozilla Firefox window, navigate to http://411crystal.cpi.cs.odu.edu:3000.

**Expected Results:**

1. Redirected to the Warrior Hope home page.
2. Redirected to the Warrior Hope home page.
3. Redirected to the Warrior Hope home page.
4. Redirected to the Warrior Hope home page.

**Special Instructions:** None

(O: Phillmon, M1:Lapira)

**Test Case 2.2 - Web Page and Assessment Loading Times**

**Specification Reference:** 3.2.3 - Load Time Performance & 3.2.4 - Database Access Performance

**Test Description:** This test will verify that the application is able to load web pages and retrieve assessments within 5 seconds.

**Initialization:**

1. Obtain the username and password of a registered Warrior Hope user.
2. Open a web browser.

**Test Inputs:**

**Username:** The username of a registered Warrior Hope user.

**Password:** The password of a registered Warrior Hope user.

**Test Procedure:**

1. Navigate to http://411crystal.cpi.cs.odu.edu:3000/signin.
2. Enter username and password for user.
3. Click on the drop-down menu and select “Assessments”.
4. Answer all the questions associated with the initial assessment.
5. Answer all the questions associated with the secondary assessments.

**Expected Results:**

1. Redirected to the Warrior Hope login page within 5 seconds.
2. Redirected to the Warrior Hope homepage within 5 seconds.
3. Redirected to the initial assessment page within 5 seconds.
4. Redirected to the secondary assessments page within 5 seconds.
5. Redirected to the group placement landing page within 5 seconds.

**Special Instructions:** None

(O: Phillmon, M1: Lapira)

**Test Case 2.3 - Chat Spamming Prevention**

**Specification Reference:** 3.2.5 - Chat Spamming

**Test Description:** This test will verify that the user cannot enter more than ten messages per minute in a live chat session.

**Initialization:**

1. Obtain the username and password of a registered Warrior Hope user.
2. Open a web browser.

**Test Inputs:**

**Username:** The username of a registered Warrior Hope user.

**Password:** The password of a registered Warrior Hope user.

**Message:** The message to be sent by the user during the live chat session.

**Test Procedure:**

1. Navigate to http://411crystal.cpi.cs.odu.edu:3000/signin.
2. Enter username and password for user.
3. Click on the drop-down menu and select “Live Chat”.
4. In the live chat, enter any message more than ten times in a minute.

**Expected Results:**

1. Redirected to the Warrior Hope login page.
2. Redirected to the Warrior Hope homepage.
3. Redirected to the live chat page.
4. Display “Spamming in live chat is prohibited!” to the user.

**Special Instructions:** None

(O: Phillmon)

**Test Case 4.1.3 - HIPAA Compliant Session Timeout**

**Specification Reference:** 3.1.4.3 - Session Timeout

**Test Description:** This test will verify that the user’s session will timeout after ten minutes while logged into the application.

**Initialization:**

1. Obtain the username and password of a registered Warrior Hope user.
2. Open a web browser.

**Test Inputs:**

**Username:** The username of a registered Warrior Hope user.

**Password:** The password of a registered Warrior Hope user.

**Test Procedure:**

1. Navigate to http://411crystal.cpi.cs.odu.edu:3000/signin.
2. Enter username and password for user.
3. Wait for ten minutes.

**Expected Results:**

1. Redirected to the Warrior Hope login page.
2. Redirected to the Warrior Hope homepage.
3. User is logged out and redirected to the logout page.

**Special Instructions:** None

(O: Phillmon)

# 5 Traceability to Requirements

**Note: Feel free to make test cases that cover multiple requirements. The test cases that have a \* next to them are not yet complete.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Test Case** | **Requirement** | | | | | | | | | | | | | | | |
| **3.1.1.1** | **3.1.1.2** | **3.1.1.3** | **3.1.2.1** | **3.1.2.2** | **3.1.2.3** | **3.1.2.4** | **3.1.3.1** | **3.1.3.2** | **3.1.3.3** | **3.1.3.4** | **3.1.3.5** | **3.1.3.6** | **3.1.4.1** | **3.1.4.2** | **3.1.5.1** |
| **1.1.1** | X |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **1.1.2\*** |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **1.1.3** |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **1.1.4** |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **1.2.1\*** |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |
| **1.2.2\*** |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |
| **1.2.3** |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |
| **1.2.4\*** |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |
| **1.3.1** |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |
| **1.3.2** |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |
| **1.3.3** |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |
| **1.3.4** |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |
| **1.3.5** |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |
| **1.3.6** |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |
| **1.4.1** |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |
| **1.4.2** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |
| **1.5.1** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |

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| **Test Case** | **Requirement** | | | | | | | | | | | | | | | |
| **3.1.5.2** | **3.2.1** | **3.2.2** | **3.2.3** | **3.2.4** | **3.2.5** | **3.4.1.1** | **3.4.1.2** | **3.4.1.3** | **3.4.2.1** | **3.4.2.2** | **3.4.3.1** | **3.4.3.2** | **3.4.3.3** | **3.4.3.4** | **3.4.3.5** |
| **1.5.2.1** | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **1.5.2.2** | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **2.1** |  | X | X |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **2.2** |  |  |  | X | X |  |  |  |  |  |  |  |  |  |  |  |
| **2.3** |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |
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| **4.1.3** |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |
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