

3. Testing

This training website will require a great deal of testing to make sure all of the interaction points within it are functioning properly. Given the nature of the website, most of the test cases are user-driven, and must be performed manually. They will all be tested at each milestone/scrum cycle against the conditions listed here. If a test fails, the tester will create a story for a possible bug fix or another test case that could reveal more about why the initial test failed.

3.1 User Driven Testing

3.1.1. Non-Logged-In Users

Testing for non-logged-in users consists of testing their ability to register, log in, and subscribe/unsubscribe. Non-logged-in users must enter a valid email and password to either register or log in. In both cases, the system will check if the email is already in the system. If it is, registration will fail and the user will be notified. They will then be able to try again. If the user is logging in, the system will then check if the password entered matches the email, and if the check is successful the user will be logged in. If the check fails, the user is notified and able to attempt again. Subscribing works similarly, but only the email entered is checked against the subscription database. Some of the tests for logged in users that involve accessing the training area of the site will also check against non-logged-in users.

3.1.2 Logged In Users

Testing for logged in users currently consists of testing their ability to log out, subscribe/unsubscribe, and access the training area of the site. Logging out simply deletes the current user session. Subscribing/unsubscribing works the same way it should for non-logged-in users, but without the requirement to enter a valid email, as it is just pulled from the current user session. The tests for accessing the training area of the site are currently few, as this section of the website has not been fully planned yet.

3.2 Test Cases

The following table lists all of the test cases that have been formulated thus far, as well as their respective pass and fail conditions. It is very likely that this list will change as development of the website continues, and the customer may wish to add or remove certain functionalities from the site.

#	Test Case	Pass Condition	Fail Condition
1	Click on "Register" button on the homepage	User is redirected to the registration page	User is not redirected or is redirected to the wrong page

2a	User attempts registration with valid email/password	System registers user and redirects to homepage	System does not register user or does not redirect to home
2b	User attempts registration with invalid email/password	System does not register user and tells the user the reason they were not registered	User is registered with invalid login information or is not told why attempted registration is invalid
3	User clicks "Login" button on the homepage	User is redirected to the login page	User is not redirected or is redirected to the wrong page
4a	User attempts login with registered information	Session created and user alerted of successful login and user redirected to homepage	Session not created or user not alerted or user not redirected
4b	User attempts login with non-registered information	Notify user login information is not in Active Directory and allow another attempt	No notification of invalid information or session is created or user is given access to the site
5	User clicks "Logout" button	User's session is killed and user is redirected to homepage	Session is not deleted or user is not redirected
7a	Non-logged in User clicks "Subscribe" button	User is redirected to subscription page	User is not redirected, or is redirected to the wrong page
7b	Non-logged-in user that is not subscribed enters email to subscribe	Adds email to subscription list	Email not added
7c	Non-logged-in user that is already subscribed enters email to subscribe	User is notified that email is already in the system	User is not notified
7d	Logged in user that is not subscribed clicks "Subscribe" button	Adds email from current session to subscribed database	Email is not added
7e	Logged in user that is already subscribed clicks "Subscribe" button	User notified they are already subscribed and no email added	User is not notified

8a	User clicks the "Unsubscribe" button	User is redirected to the unsubscribe page and "Confirm" button appears	User is not redirected or "Confirm" button does not appear
8b	User clicks the "Confirm" button	Email is removed from subscription database, user notified of success, redirects to homepage	User is not removed, notified or redirected home
9a	Non-logged-in user goes to homepage	"Login" "Register" and "Subscribe" buttons are shown with the homepage	Any of the three buttons are missing or an incorrect button appears
9b	Logged in user goes to homepage	"Logout" and "Subscribe" buttons are shown	Either of the buttons are missing or an incorrect button is shown
10	Logged in user navigates to training section	Training section is displayed	Training section is not displayed
11	Logged in user navigates to a specific training page	Requested page is displayed	Page is not displayed