**Software Testing Plans**

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December 3, 2013

1. **Introduction**

This document lays out the testing plans to be brought out by our team when verifying that its implementation matches the requirements laid out in the specification document. The test plans will not include these requirements: R2, R3, R6, R14, R16. As we have discussed, R2 and R14 will not be implemented by our group, the others are to be absent for testing. This leaves the agreed number of 13 requirements to be tested at this stage. To test, we have laid out the testing requirements in section 2, and list the test cases in section 3. The testing report will show the results of our testing.

**2.0 Testing Requirements**

To sufficiently test our program, we have produced testing requirements that will help us cover the requirements laid out in the requirements specification document. We will list the testing requirements in terms of the requirements that they satisfy in the requirements specification document. They will be written as TR#, where TR means testing requirement, and # indicates the requirement it satisfies from the specification document.

TR1: This will require that the user can successfully register with the system by using a UI to sign up. They should be able to enter data in all fields and have this data available in the model the next time they sign in.

TR4: This will require that, during user registration, the user is shown an indication of password strength, they should be required to enter the password twice, and returned to the registration page if the passwords in the two fields did not match. The password should be obscured by dots while being typed, and after 5 failed attempts, they will be locked out for 1 minute.

TR5: This will require that the user can log into the system using a username and password that correspond to the account that they signed up with. This should mean after they sign in, they are greeted with the main page with the posts from the users they follow and their own posts. Anything they do in the system until they sign out will be under the account they signed up with.

TR7: This will require that the user can sign out of the system. This means after they sign out, they cannot interact with the system under their account until they sign back in.

TR8: This will require that the user can see a list of all users registered in the system. This means when they search for a user with an empty string, they are shown a page with a list of all users in the system.

TR9: This will require that the user can search for other users. This means they can enter either the first name, last name, full name, or username of the user they are looking for and after pressing search, are shown a page with a list of users that match their query.

TR10/11: This will require that it is impossible for the user to follow the same user twice or unfollow a stranger. This means when clicking on the follow/unfollow button, the appropriate action is taken depending on the current state of the system.

TR12: This will require that when typing a post, the user is not allowed to type more than 200 characters and is shown how many characters they can still type. This means the character count is correct and the user is completely blocked from typing over the 200 character limit.

TR13: This will require that when viewing the current user’s main page, they are shown a list of posts that they have posted, and the users they are following have posted. Default view is chronological, they can also sort by username and hashtags. When looking at the posts, the user should be able to see the username and timestamp of each post. The system should refresh the page or the user every 30 seconds.

TR15: This will require that the user can include hashtags in their posts. This means that when a user makes a post and includes text following the character ‘#’, each unique string will constitute a new hashtag in the system that is associated with that post.

TR17: This will require that the user can search for posts by the hashtags associated with them. This means when indicating search by hashtag, a list of posts that are associated with the given hashtag will be listed. The user should also be able to search for posts by the indicated username.

TR18: This will require that the user can like a post. This means, after liking a post, the system will contain a number indicating how many times the post has been liked.

**3.0 Test Cases**

**Test 1**

PURPOSE:

Test registering of a user.

SETUP:

Navigate to localhost/views/login.php

INPUTS and EXPECTED OUTPUTS:

inputs expected output

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Click ‘Create an account’ Create account page

The Email textbox: w

The Username textbox: y

First Name Textbox: a

Last Name Textbox: b

Password Textbox: password

Confirm Password Textbox: password

Pressing ‘Create account’ Login page

REQUIREMENTS COVERED:

1

**Test 2**

PURPOSE:

Test a user logging in to the system

SETUP:

Localhost/views/login.php, the user to test must have registered.

INPUTS and EXPECTED OUTPUTS:

inputs expected output

-------------------------------------------

Username textbox: y

Password textbox: password

Press the Login Button home page should be displayed

REQUIREMENTS COVERED:

5

**Test 3**

PURPOSE:

Test the password policy

SETUP:

User should be on create account page and filled out every field besides passwords.

INPUTS and EXPECTED OUTPUTS:

inputs expected output

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Password Textbox: abc123 Password text is changed to dots. Displays the strength of the password

Confirm Password Textbox: abc124 User is directed back to the registration page

REQUIREMENTS COVERED:

4.1-4.3

**Test 4**

PURPOSE:

Test the lockout functionality after 5 attempts for 1 minute.

SETUP:

Localhost/views/login.php, Complete Test 1

INPUTS and EXPECTED OUTPUTS:

inputs expected output

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Username Textbox: y

Password Textbox: q

Click Login

Click ‘logging in’

Repeat previous four steps 4 more times. Redirected to lockout.php

Wait one minute and repeat Test 2 redirected to home page

REQUIREMENTS COVERED:

4.4

**Test 5**

PURPOSE:

Test the logout button

SETUP:

Test 2

INPUTS and EXPECTED OUTPUTS:

inputs expected output

-------------------------------------------

Click logout button User is directed to login page and is logged out of the system.

REQUIREMENTS COVERED:

7

**Test 6**

PURPOSE:

Test the Users Page which shows a complete list of registered users in the system.

SETUP:

Test 2

INPUTS and EXPECTED OUTPUTS:

inputs expected output

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Click Search Search Page displayed

Click Search all users displayed

REQUIREMENTS COVERED:

8

**Test 7**

PURPOSE:

Test the posting functionality

SETUP:

Test 2

INPUTS and EXPECTED OUTPUTS:

inputs expected output

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Click Make a Post Post page

Into Post TextArea enter “This post contains a #hashtag”

Click Post Home page, Post shows up

REQUIREMENTS COVERED:

12, 13, 15,

**Test 8**

PURPOSE:

Test the Hashtag page

SETUP:

Test 7, User on their home page

INPUTS and EXPECTED OUTPUTS:

inputs expected output

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Click Search display search page

Enter ‘#’ into Search Textbox

Select Hashtag from dropdown

Click Search list all hashtags in system

REQUIREMENTS COVERED:

17.1

**Test 9**

PURPOSE:

Test the search functionality

SETUP:

Test 2, User on their home page

INPUTS and EXPECTED OUTPUTS:

inputs expected output

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Click Search Search page displayed

Enter y into textbox

Click Search return a list of users with similar names

REQUIREMENTS COVERED:

9,R17,

**Test 10**

PURPOSE:

Test the follow functionality

SETUP:

Repeat Test 1 and Test 2 with a different username, etc, Test 9 with user y

INPUTS and EXPECTED OUTPUTS:

inputs expected output

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Click the Follow/Unfollow Button the zero is now a one when the search is repeated

F5 other User’s posts show up

REQUIREMENTS COVERED:

10, 11

**Test 11**

PURPOSE:

Test sorting of the post feed

SETUP:

Test 7, Repeat Test 7 with different input (including hashtags) in the textbox

INPUTS and EXPECTED OUTPUTS:

inputs expected output

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Selects sort by Username from dropdown

Click Sort Posts are displayed by Username alphabetically

Selects sort by Hashtag from dropdown

Click Sort Posts are displayed by Hashtag alphabetically based on the first hashtag appearing in the post

Selects sort by Likes from dropdown

Click Sort Posts are displayed by Like Count

Selects sort by Date from dropdown

Click Sort Posts are displayed based on the time created

REQUIREMENTS COVERED:

13