

Snow Much Fun Project Proposal

CSCI 3308 Software Development Tools and Methods

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User Acceptance Test Plans

Test 1 – Sign Up

Summary: We will test the user login capabilities to ensure that new users can login and to test that you cannot create a duplicate user (i.e. two users with the same user name).

Procedure:

- Open main page
- Click “Sign up Here” on left side bar
- Confirm redirect to create account page
- Confirm fields on page are editable
- Create a user by editing the fields and submitting the form
- Attempt to add the same user name
- Confirm that it refuses to make duplicate user

Automated Test Results:

The screenshot displays a web browser window on the left and the Selenium IDE interface on the right. The browser shows a 'Sign Up' form with a red error message 'Username already exists' and input fields for 'testuser', 'Where are you from?', 'Password', and 'Confirm Password'. The Selenium IDE interface shows a test suite named 'Untitled Project' with a table of test steps. The table has columns for 'Test Activity Displays*', 'Command', 'Target', and 'Value'. The steps include 'pause', 'click', 'assert title', 'verify text', and 'assert editable'. The 'Log' section at the bottom shows the execution results of these steps, all marked as 'Success'. The final log entry states: '*Test Sign Up and Duplicate Users* completed successfully'.

Test Activity Displays*	Command	Target	Value
Test Login	2. pause		
Test Right Side Bar	3. click	//a[contains(text),'Sign up']	
	4. assert title	Create an account	
Test Sign Up and Dupl...	5. verify text	css=h2	Sign Up
	6. assert editable	name=username	
	7. assert editable	name=location	
	8. assert editable	name=password1	

Runs: 1 Failures: 0

Log

- 11. Trying to execute sendKeys on name=location with value Boulder... Success
- 12. Trying to execute sendKeys on name=password1 with value testpassword... Success
- 13. Trying to execute sendKeys on name=password2 with value testpassword... Success
- 14. Trying to execute click on name=registerUser... Success
- 15. Trying to execute assertText on css=p with value Username already exists... Success

Test Sign Up and Duplicate Users completed successfully

Test 2 – Login

Summary: Confirm that existing users can login on the main page.

Procedure:

- Open the main page
- Confirm that user login fields (username and password) are editable
- Enter existing username and corresponding password
- Submit form
- Assert that user is logged in (with username field set)

Automated Test Results:

The screenshot displays a web browser window on the left and a Selenium IDE test results window on the right.

Web Browser (Left):

- Address bar: `snowmuchfun.sportsonthe`
- Page Title: **Snow Much Fun!**
- Left Sidebar: Contains a warning message, login fields (Username, Password, Login), a "Sign up Here" link, a "Successfully logged in" message, a "Welcome apple" message, a "logout" link, and links for "Add Activities", "Add Weather Conditions", "About", and "Display Biking".
- Main Content: A map of Colorado with a location pin near Denver. To the right of the map are sections for "LOCATION NAME", "Summary", "Temperature", "Humidity", "Road Conditions", "Location Description", "Activity Description", and "Comments".

Selenium IDE (Right):

- Project: **Untitled Project**
- Test Suite: **Test Login**
- Test Steps:

Test Activity Displays*	Command	Target	Value
Test Login	2. <code>assert editable</code>	<code>name=username</code>	
	3. <code>assert editable</code>	<code>name=password</code>	
Test Right Side Bar	4. <code>send keys</code>	<code>name=username</code>	apple
	5. <code>send keys</code>	<code>name=password</code>	apple
Test Sign Up and Dupl...	6. <code>click</code>	<code>name=loginUser</code>	
	7. <code>assert text</code>	<code>css=div.content > p</code>	Welcome apple

- Log:

 - 3. Trying to execute `assertEditable` on `name=password`... Success
 - 4. Trying to execute `sendKeys` on `name=username` with value `apple`... Success
 - 5. Trying to execute `sendKeys` on `name=password` with value `apple`... Success
 - 6. Trying to execute `click` on `name=loginUser`... Success
 - 7. Trying to execute `assertText` on `css=div.content > p` with value `Welcome apple`... Success

- Summary: ***Test Login* completed successfully**

Test 3 – Activity Displays

Summary: A main feature of our website is displaying where certain activities are located on the map of Colorado. Users can select checkboxes to display which activities (climbing, biking, skiing, or hiking) should be displayed on the map.

Procedure:

- Open the main page
- Check that all activity boxes are clicked and activities are displayed
- Uncheck all the boxes to check that activities are removed from the map
- Start checking boxes again and confirm that activities are redisplayed

Automated Test Results:

The image shows a screenshot of a web browser displaying the 'Snow Much Fun!' website and a Selenium IDE test runner window.

Website Screenshot:

- Header:** 'Snow Much Fun!' with a snowflake icon.
- Left Sidebar:** Login form (Username, Password, Login), 'No account? Sign up Here', 'Welcome apple', 'logout', 'Add Activities', 'Add Weather Conditions', 'About', and a list of activities: ☒ Display Biking, ☒ Display Climbing, ☐ Display Hiking, ☐ Display Skiing.
- Map:** A map of Colorado with various locations marked.
- Right Panel:** 'LOCATION NAME' with a silhouette of a person, 'Summary', 'Temperature', 'Humidity', 'Road Conditions' (Describe road condition), 'Location Description' (text area), 'Activity Description' (text area), 'Submit', 'Comments', and 'SomeUser-'. There is also a 'Map' button.

Selenium IDE Screenshot:

- Test Suite:** 'Test Activity Displays*'
- Test Cases:** 'Test Login', 'Test Right Side Bar', 'Test Sign Up and Dupl...'
- Test Steps:**

Step	Command	Target	Value
6.	click	id=Biking	
7.	assert not checked	id=Biking	
8.	click	id=Climbing	
9.	assert not checked	id=Climbing	
10.	click	id=Hiking	
11.	assert not checked	id=Hiking	
12.	click	id=Skiing	

Log:

- 16. Trying to execute assertElementPresent on //div[@id="map"]/div/div/div/div/div[3]/div[2]/div[3]/div[2]/img... Success
- 17. Trying to execute assertElementPresent on css=div.gmnoprint > img... Success
- 18. Trying to execute click on id=Climbing... Success
- 19. Trying to execute assertChecked on id=Climbing... Success
- 20. Trying to execute assertElementPresent on css=div.gmnoprint > img... Success

Test Activity Displays* completed successfully

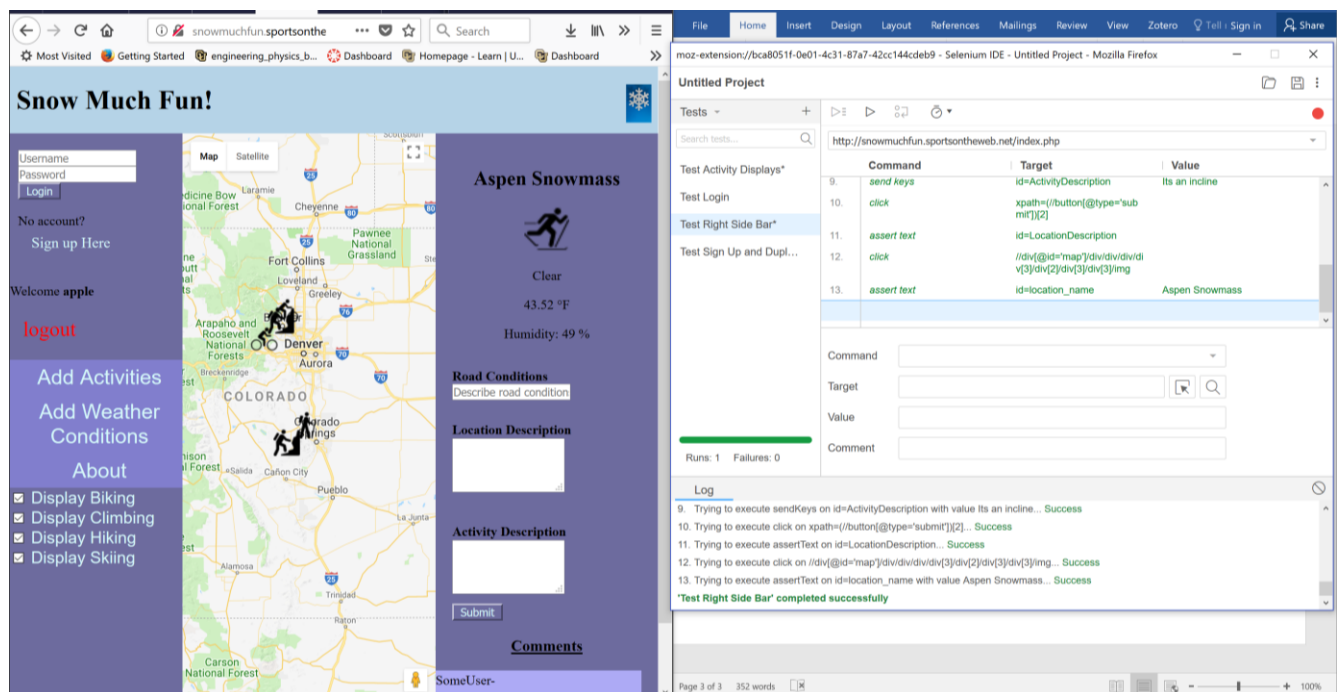
Test 4 – Right Sidebar

Summary: The right sidebar shows the collected information regarding the location that the user selects on the map. We want to confirm that the right location is displayed and that the fields are editable.

Procedure:

- Open the main page
- Click on a drop pin location
- Confirm that the location listed on the right sidebar corresponds to the selected location
- Ensure that the fields are editable
- Submit a custom report using the right sidebar
- Click on another location on the map
- Ensure that the new sidebar title corresponds to the new location is selected

Automated Test Results:



Automated Test Cases

All above tests were automated using Selenium IDE for Firefox. The test code can be found in the file Milestone5_Unit_Testing in our github milestones folder. It can be run by loading the file into the IDE and hitting the run button at the top of the IDE.

In the above screenshots on the right is the Selenium IDE display with the test script and on the left is our website as the script is run (in the final configuration after the test script is run).