Title: SnowSafe

Team: team3bestTeam

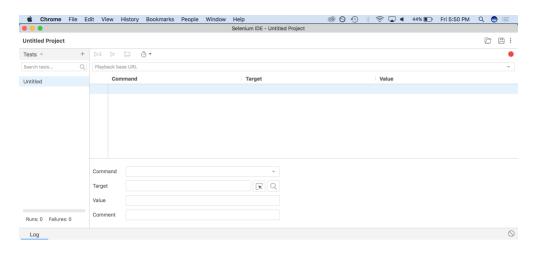
Team Members: Oliver Larsson, Vy Le, Tristan Neate, Spencer Holm, Alexander Wilson

Automated Test Cases

For our automated testing, we used a Chrome plug-in extension called Selenium IDE, by Selenium HQ. Here's their website: https://www.seleniumhq.org/
Once added to chrome, Selenium IDE functions as follows:

Set Up:

Upon opening the extension, you'll see a screen that looks like this.





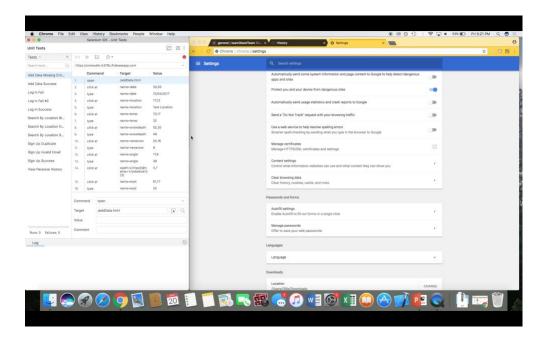
To begin creating a test script:

- 1. Create a new test.
- 2. Press red "record" button in upper-right corner of screen.
- 3. Navigate the web browser as you want the test to replicate.

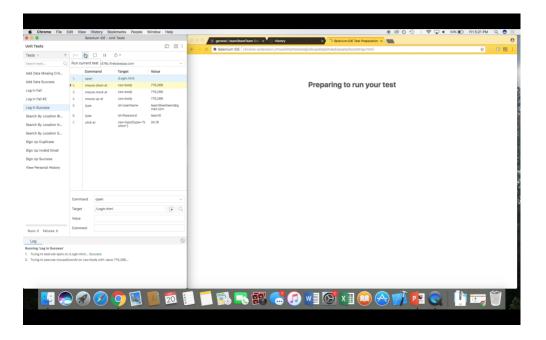
As you navigate the browser, Selenium continuously updates the test "Commands", "Targets", and "Values". You'll see these outputs further down in the document. These are all translated into executable scripts, which you can later run to test the site.

Running Tests:

To run a test, open the Selenium IDE extension and select the file containing all test cases previously recorded. The updated screen, alongside the browser, will look like this.

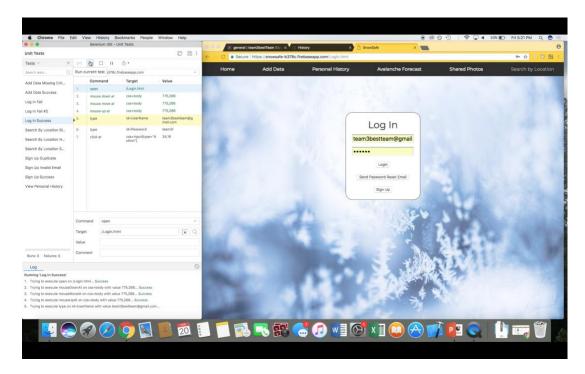


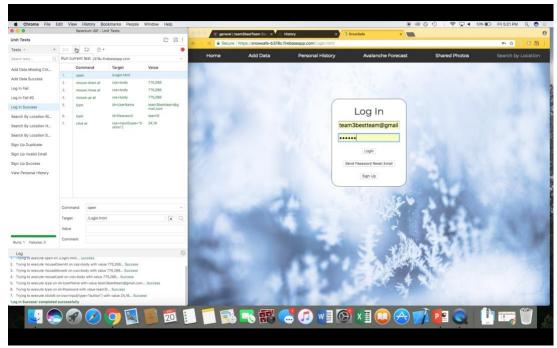
Find the test you wish to run on the left side of the screen, under "Tests." You can see in the photo above that all the commands are to the right of the "Tests" bar. To run the test, press the "play" icon. Selenium will load the base URL and begin the test.



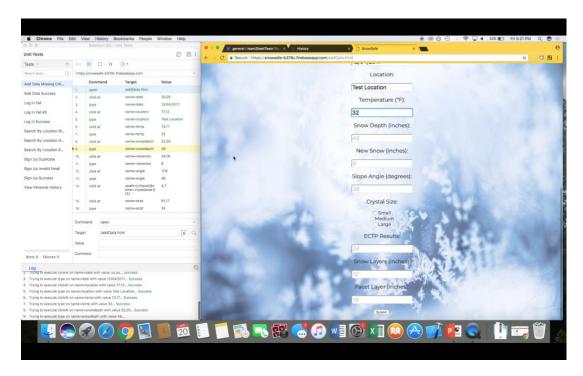
The following are screenshots of various tests in progress:

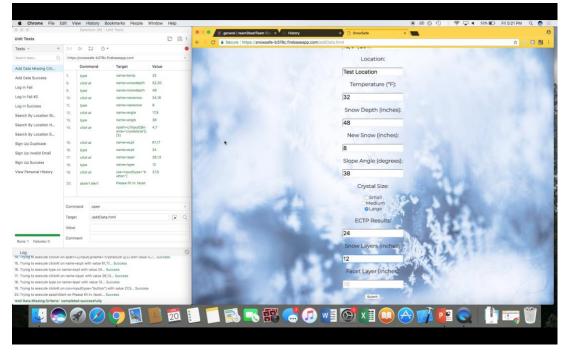
"Log In Success"



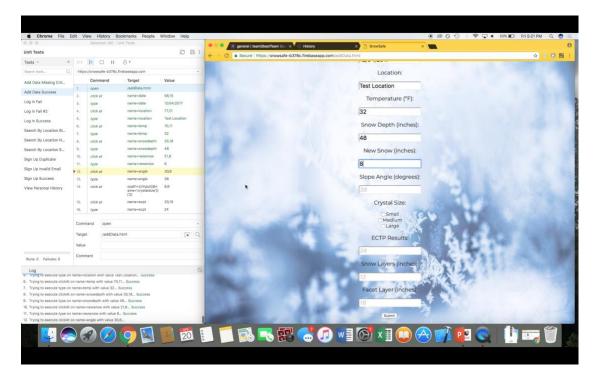


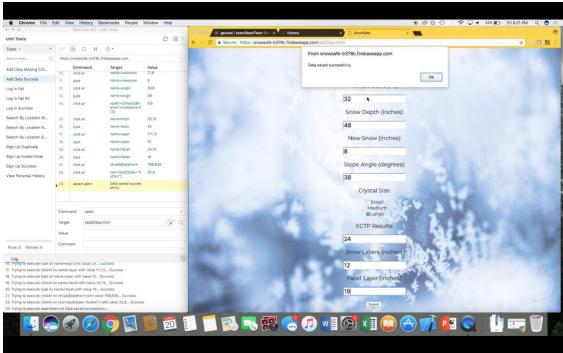
"Add Data Missing Criteria"



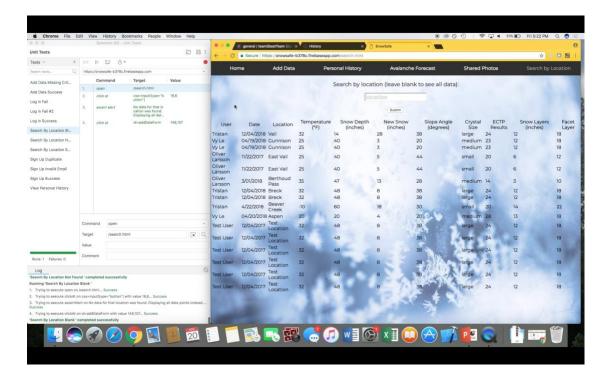


"Add Data Success"

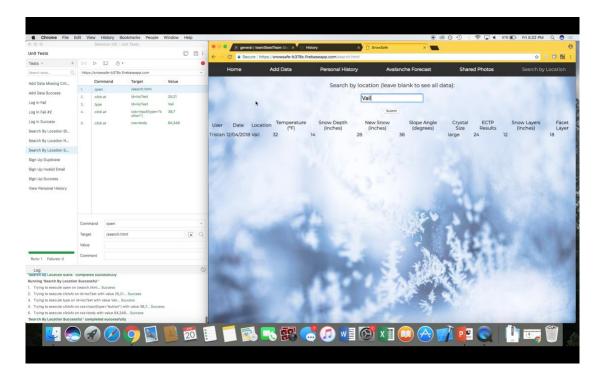




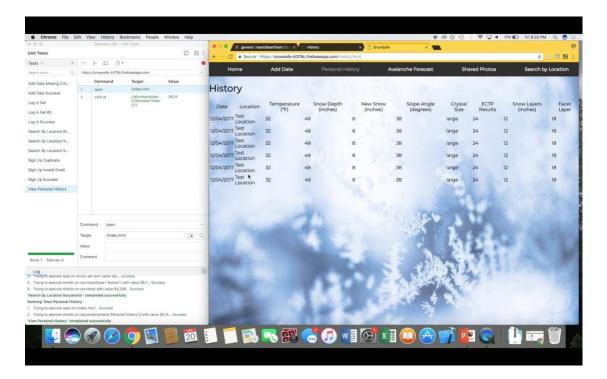
"Search By Location Blank"



"Search By Location Success"



"View Personal History"



User Acceptance Test Plans

Feature 1: Add Data

Users will be able to log data into our database using a form. However, every section in the form must be filled out before they can submit.

The test case "Add Data Missing Criteria" tests if there is an alert prompting the user to finish filling out the form if they've left something empty but tried to submit the data. There are tests for every individual section on the form to make sure users can't leave anything empty. This is tested by filling out every section on the form except one, and also by leaving multiple sections empty. In either case, there should be an alert.

The test case "Add Data Success" tests if there is an alert when the data is submitted successfully. This means that every section of the form was filled out and the data was sent to our database successfully. This is tested by filling out every section in the form and pressing submit.

Feature 2: View Personal History

Users will be able to view all of the data that they've personally submitted.

The case "View Personal History" tests if our Personal History page displays the data that the user has submitted by using asserts to see if the table is displayed. This is tested by clicking the "Personal History" tab.

Feature 3: Search by Location

Users will be able to search the database for a specific location and see all of the data submitted for that location. If no location is specified, it will display all the data.

The test case "Search By Location Blank" tests if there's an alert saying that no location was specified. Then it asserts that there should be a table displayed afterwards. This is tested by leaving the location field empty on the "Search by Location" page and just pressing submit.

The case "Search By Location Success" tests if the table displays the data for the specified location. It tests this by using an "assert element present" and checks if the location(s) displayed in the table match the input. This is tested by inputting a valid location on the "Search by Location" page.

Another test case tests what happens if the user enters a location but there's no data in the table for it. It tests for an alert which says "No data for that location was found. Displaying all data points instead." It also asserts that there should be a table displayed afterwards. This is tested by inputting an invalid location on the "Search by Location" page.

Output showing the results of the automated test cases running:

