Test report

Why did you choose the test for the video above?

We did four tests for two methods in one class. We chose this method to test as it was a key functionality for the map application. We chose to test this method as they had defined criteria that could be tested with NUnit tests as opposed to GUI displays.

The acceptance test for this piece of functionality

The first test is the map initialization test with a location name. It is trying to see if it can convert the location into the correct latitude and longitude points. Correct longitude and latitude points that were researched were used to compare with the result returned from the test to see if they were the same or similar.

The second test is a map initialization test with empty input. This test is supposed to return an exception message *“No Query or Address value specified”* when the input string was empty.

The third test initializes the map with an incorrect location name This test sees how the map handles a location with an incorrect name such as *“Dunde”,* the expected result was that it should be able to recognize the location name and return the correct location.

The fourth test was the Haversine test. This test is to prove that the formula implemented in the program is accurate. We used coordinates of Dundee and Glasgow, applied the formula to get the distance in miles and compared it to online web results to see how accurate it was. The final result was +/- 5 miles which was accepted in the acceptance test.

Evidence of all tests that were created during the development of your application and how these have been used during the project process

We did tests in accordance with the test plan that we made in the beginning of sprint 2. The evidence is in GitHub repository for Sprint 2.