StackOverflow Web Testing

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FINAL DELIVERABLE

Summary:

For deliverable 5 I decided to test stackoverflow.com. I chose stackoverflow because it is a common site which people use to ask almost any computer related question. The website also had many functionalities which I was able to test using Gherkin and and JUnit tests via selenium. I personally chose to do JUnit tests via selenium for practice and because I like the logic structure of Gherkin/Selenium tests.

Issues faced:

One of the main issues that consistently occurred was an issue where when attempting to compare the output of two different URLs, the website would switch from having a http tag to a https tag. Initially I could not figure why the URL kept changing one letter a time which was problematic, because sometimes it would test correctly and sometimes it would not. This issue was fixed by using driver.get(baseUrl). By calling this method, I ensured that the URL was secure and always contained https.

Another issue I faced was trying to select WebElements by their class names. I would start to run the selenium tests, and when I exported the files and tried to write tests I discovered that the selenium IDE had incorrectly called on some of the different Web elements. This was remedied by using either a cssSelector or a findElement command which allowed me to specifically call on the element I wanted. In order to find name of the class I was looking for I went to the page and inspected the element using firefox.

The largest issue that I came across was an issue during the settings test. In some cases, when I tried to send keys to a certain value, selenium entered the information so quickly that when the submit button was clicked, stackoverflow gave me an error which said the request currently cannot be handled right now. I reasoned that the error came from time, so I added a thread.sleep() line which causes the program to pause for a short amount of time before resuming again. Once I implemented this sleep function I no longer got the error and the tests were able to run properly.

Overall assessment:

Stackoverflow is a creditable site where people can congregate together and ask/answer questions for the benefit of others. As it is a site where lots of computer science questions are asked, it is well designed, allowing questions to be asked with coding blocks and implementing a karma system which shows who the most credible people are.

Is this product ready for release:

Stackoverflow is ready for release. It has the basics of a customizable user profile and has basic navigation and login systems set up based off of my tests. Stackoverflow also has many other features such as question asking and answering, forums and much much more.





