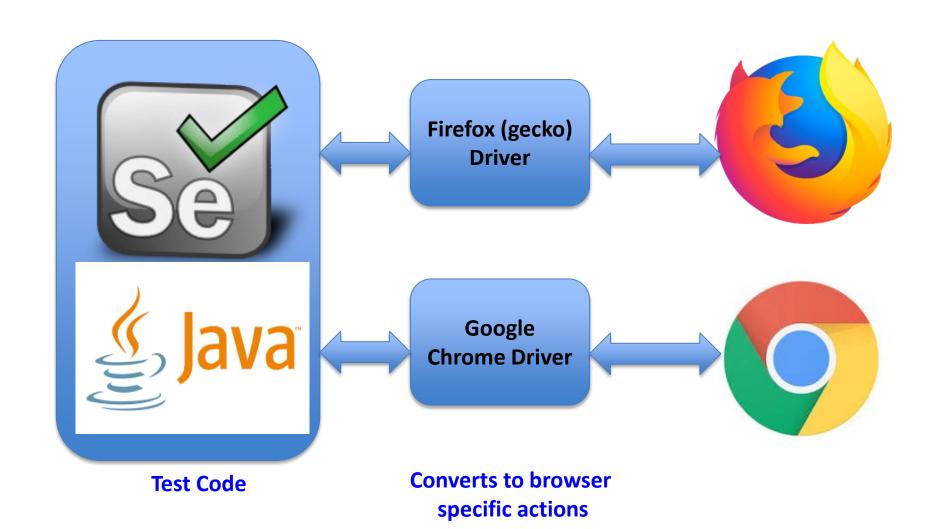
Software Testing (System Level)

Week 10 (Part 1)

Web System Testing

- Automated testing of web application is often required
 - To test UI activities
 - Checking links and connections
 - Submitting web forms
 - More...

Web System Testing



Link Objects

 Find a link in a webpage with a given name and click the link

Link Objects

 Find all link objects in a webpage. Click on all these links.

Filling Button Texts

 Fill up login and password and login to your Google account automatically.

Explicit Wait

 Consider the Google login example. We do not need to wait always 10 seconds. We only need to wait until the "password" field becomes visible in the page. Selenium provides the class ExpectedCondition for this purpose.

Checking Broken Links

 Finding and clicking all links still require a human observer to check what is happening with the software. It will be useful if all links are checked automatically for potential breakage.

Cohort Exercise 1.1

 Test the new istd.sutd.edu.sg webpage by randomly clicking links. The process may go on forever.

Cohort Exercise 1.2

 Write a test to do the following: Send N invalid usernames to Google login form (be innovative about the invalid user names) before the captcha appears and then login with your user name and password.

Cohort Exercise 1.3

 Write a test to check whether all web pages directly reachable from a given webpage have titles. The test will fail if any such directly reachable webpage has an empty title. Hint: Use getTitle() from the web driver.

More on Web App Testing

https://www.guru99.com/accessing-forms-in-webdriver.html