STQA Mini Project No. 2

Title

Create a small web-based application by selecting relevant system environment/platform and programming languages. Narrate concise Test Plan consisting features to be tested and bug taxonomy. Narrate scripts in order to perform regression tests. Identify the bugs using Selenium WebDriver and IDEand generate test reports encompassing exploratory testing.

Problem Definition:

Perform Web testing and identify the bugs using Selenium WebDriver and IDEand generate test reports encompassing exploratory testing.

Prerequisite:

Knowledge of Core Java

Software Requirements:

Eclipse photon R latest Version, JAVA 1.8, selenium-server-standalone-3.13.0 Chromedriver.exe

Hardware Requirement:

PIV, 2GB RAM, 500 GB HDD, Lenovo A13-4089Model.

Learning Objectives:

We are going to learn how Identify the bugs using Selenium WebDriver and IDEand generate test reports encompassing exploratory testing.

Outcomes:

You are able to Web Testing using Automation Tool like Selenium Web driver and IDE

TheoryConcepts:

What is Selenium?

Selenium is a free (open source) automated testing suite for web applications across different browsers and platforms.

Selenium is a suite of software tools to automate Web Browsers.

• It is an Open source suite of tools mainly used for Functional and Regression Test Automation.

Selenium is a free (open source) automated testing suite for web applications across different browsers and platforms.

It is quite similar to HP Quick Test Pro (QTP now UFT) only that Selenium focuses on automating webbased applications. Testing done using Selenium tool is usually referred as Selenium Testing.

• Selenium supports various Operating environments.

- ✓ MS Windows
- ✓ Linux
- ✓ Macintosh etc...

• Selenium supports various Browsers.

- ✓ Mozilla Firefox
- ✓ IE
- ✓ Google Chrome
- ✓ Safari
- ✓ Opera etc...

Note: Selenium IDE supports Mozilla Firefox only.

• Selenium supports various programming environments to write programs (Test scripts)

- 🗸 Java
- ✓ C#
- ✓ Python
- ✓ Perl
- ✓ Ruby
- ✓ PHP

History of the Selenium Project

Selenium first came to life in 2004.

• In 2006, Selenium WebDriver was launched at Google.

• In 2008, the whole Selenium team decided to merge Selenium WebDriver with Selenium RC in order to form more powerful tool called Selenium 2.0

- ✓ Selenium 1 (Selenium IDE + Selenium RC + Selenium Grid)
- ✓ Selenium 2 (Selenium IDE + Selenium RC + Selenium WebDriver + Selenium Grid)

Selenium's Tools Suite

Selenium is not just a single tool but a suite of software's, each catering to different testing needs of an organization.

It has four components.

- Selenium Integrated Development Environment (IDE)
- Selenium Remote Control (RC)
- WebDriver
- Selenium Grid



Brief Introduction Selenium IDE

It is a Firefox browser plug in, used to create and execute Test cases.

1. Selenium IDE Features:

• Create Test Cases, Test suites (We can Record test cases or type Test steps using element locators and Selenese commands)

- Edit Test Cases
- Execute Test cases, Test suites
- Debug Test Cases.
- Enhance Test Cases
- Export Test cases to other formats (java, ruby etc...)

Note: selenium IDE Test case default format is .html

2. Drawbacks of Selenium IDE

- It supports Mozilla Firefox browser only.
- It doesn't support Programming logic/features to enhance Test cases.
- It doesn't support Data Driven Testing.
- It is not suitable for complex test case design.
- No centralized maintenance of Objects/Elements

3. Selenium RC (* Out dated) -Currently, Selenium RC is still being developed but only in maintenance mode.

4. Selenium WebDriver

✓ It is a Programming interface to create and execute Test cases.

Selenium IDE has IDE but doesn't have Programming interface

- ✓ Selenium WebDriver has Programming interface but doesn't have IDE
- ✓ It communicates Directly to the browser.
- ✓ No need of Separate Server such as RC Server
- ✓ UFT/QTP has both IDE as well as Programming interface
- ✓ Faster Execution than IDE & RC
- Selenium WebDriver supports various programming environments to write programs.
 - ✓ Java,
 - ✓ C#
 - ✓ Perl
 - ✓ Python
 - ✓ Ruby
 - ✓ PHP
- Using Element/Object locators/properties and Webdriver Methods we can create and execute Test cases.
- Selenium Webdriver supports various browsers to create and execute test case/test script/test

Note: Browser driver varies from one browser to another.

• Selenium WebDriver supports various operating environments

- ✓ MS Windows
- ✓ Linux Macintosh etc...

Drawback of Selenium WebDriver

- It doesn't generate detailed Test Reports.
- No centralized maintenance of Object/elements
- It require Programming Knowledge
- cannot support the readily new browser
- Installation is More Complicated than Selenium IDE

• No built-in mechanism for logging runtime message

5. Selenium Grid

• Selenium Grid is used to execute tests across multiple browsers, operating environments and machines in parallel.

Selenium Grid 2 supports Selenium RC Tests as well as Selenium WebDriver Tests.
i) Selenium WebDriver to create Test cases using element locators and Webdriver methods.
ii) Java Programming to enhance test cases.

iii) TestNG Framework to group test cases, execute test batches and generate detailed test reports. **Features:**

- Enables simultaneous running of tests in multiple browsers and environments.
- **Saves time** enormously.
- Utilizes the **hub-and-nodes** concept. The hub acts as a central source of Selenium commands to each node connected to it.

Note on Browser and Environment Support

• Because of their architectural differences, Selenium IDE, Selenium RC, and WebDriver support different sets of browsers and operating environments.

	Selenium IDE	WebDriver
Browser Support	Mozilla Firefox	Internet Explorer versions 6 to 11, both 32 and 64-bit
Sapport	I HOION	Microsoft Edge version 12.10240 & above (partial support some

	Selenium IDE	WebDriver
		functionalities under development) Firefox 3.0 and above Google Chrome 12.0. and above Opera 11.5 and above Android - 2.3 and above for phones and tablets (devices & emulators) iOS 3+ for phones (devices & emulators) and 3.2+ for tablets (devices & emulators) HtmlUnit 2.9 and above
Operating System	Windows,Mac OS X, Linux	All operating systems where the browsers above can run.

• Note: Selenium WebDriver is termed as the successor of Selenium RC which has been deprecated & officially announced by SeleniumHQ.

How to Choose the Right Selenium Tool for Your Need

Tool	Why Choose?						
	• To learn about concepts on automated testing and Selenium, including:						
	• Selenese commands such as type, open, clickAndWait, assert, verify, etc.						
	• Locators such as id, name, xpath, css selector, etc.						
	• Executing customized JavaScript code using runScript						
Selenium IDE	• Exporting test cases in various formats.						
	• To create tests with little or no prior knowledge in programming.						
	• To create simple test cases and test suites that you can export later to RC or WebDriver.						
	• To test a web application against Firefox only.						
	• To design a test using a more expressive language than Selenese						
Selenium RC	• To run your test against different browsers (except HtmlUnit) on different operating systems.						
	• To deploy your tests across multiple environments using Selenium Grid.						

Tool	Why Choose?
	 To test your application against a new browser that supports JavaScript. To test web applications with complex AJAX-based scenarios.
WebDriver	 To use a certain programming language in designing your test case. To test applications that are rich in AJAX-based functionalities. To execute tests on the HtmlUnit browser. To create customized test results.
Selenium Grid	 To run your Selenium RC scripts in multiple browsers and operating systems simultaneously. To run a huge test suite, that needs to complete in the soonest time possible.

Advantages of Selenium

- i) It is an Open source Software.
- ii) It supports various Operating environments (Windows, Linux, Mac etc...)
- iii) It supports various browsers (IE, Mozilla Firefox, Chrome, safari, Opera etc...)
- iv) It supports various programming environments (Java, Perl, Python, Ruby and PHP)
- v) It supports parallel Test execution.
- vi) It uses less Hardware resources.

Disadvantages of Selenium

- i) It supports Web based Applications only.
- ii) No reliable support from anybody.
- iii) No centralized maintenance of Elements/objects
- iv) Difficult to setup environment.
- v) Difficult to use.
- vi) Limited support for Image based testing.
- vii) New features may not work properly.
- viii) No other tool integration for test management & No built in Reporting facility.

SeleniumVersus UFT

Selenium	UFT / QTP
1) Open Source	Vendor tool, License is required.
2) Supports various OS Environments.	MS Windows only.
3) Supports various Programming Environments	VBScript only.
4) No Object Repositories	Local and Shared object Repositories.
5) No built-in Reporting feature.	Built-in reporting feature.
6) Selenium WebDriver has no IDE and Selenium IDE has no Programming Interface.	UFT has both IDE and Programming Interface.
7) Uses less Hardware resources.	Uses more Hardware resources
8) Difficult to setup environment and use.	Easy to setup and use.
9) Limited support for Image Testing	Rich support for Image Testing
10) No Reliable support	Support from HP
11) No other tool integration for Test management.	UFT can be integrated with ALM/QC for Test Management.
12) New features may not work properly.	New features will properly.
13) No Add ins for supporting Application Environments.	Add ins are required for supporting Application environments.
14) Supports Web Applications only	Supports Desktop and Web Applications.
15) No Authorized Certification	Authorized Certification program.

What is TestNG?

TestNG is a powerful testing framework, an enhanced version of JUnit which was in use for a long time before TestNG came into existence. NG stands for 'Next Generation'.

TestNG framework provides the following features -

- Annotations help us organize the tests easily.
- Flexible test configuration.
- Test cases can be grouped more easily.
- Parallelization of tests can be achieved using TestNG.
- Support for data-driven testing.
- Inbuilt reporting.

2.8.9 Step by Step Tutorial

- 1. First of Download Latest Eclipse java photon-R version.
- 2. Download latest selenium-server-standalone-3.13.0 jar File from following link

https://www.seleniumhq.org/download/ here on site 3.14.0 version is latest

With spage seach stearum: Go Selenium Downloads Projects Download Doumentation Support About Selenium Downloads Previous Releases Source Code Below is where you can find the latest releases of all the Selenium components. You can also find a list of previous releases, source code, and additional information for Maven users (Maven is a popular Java build tool). Donate to Selenium Below is where you can find the latest releases of all the Selenium webDriver. Selenium 3.X is no longer apable of running Selenium RC directly, rather it does it through emulation and the webDriverBackedSelenium interface. Donate to Selenium Download version 3.14.0 To can sponsor the Selenium project if you'd like some public contribution. To run Selenium Server in a Grid configuration see the wiki page. Muncal sponsor the Selenium project if you'd like some public contribution. Download version 3.14.0 Selenium Sponsor the Selenium retzplorer Driver Server This is required if you want to make use of the latest and greatest features of the WebDriver Interest Selenice	(mar. 1997)		
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3. Download and Extract Chromedriver.exefor windows on any drive of computer.

http://chromedriver.chromium.org/downloadshere 2.42 is latest version

→ C (① N	lot secure chromedriver.chromium.org/download		\$
	ChromeDriver -		
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	CONTRIBUTING DOWNLOADS		
	GETTING STARTED ANDROID	Latest Release: ChromeDriver 2.42	
	CHROMEOS	Supports Chrome v68-70	
	ERFORMANCE LOG	Changes include:	
	MOBILE EMULATION	Fixed ClickEelement in Mobile Emulation Fixed orbital literal Density ID-4	
	NEED HELP?	 Fixed writelisted IPS with IPV4 Fixed starting ChromeDriver with whitelisted-ips flag on Mac OS 	
	CHROME DOESN'T START OR CRASHES IMMEDIATELY	Fixed SetTimeout to accept both pre-W3C and W3C formats Fixed take element screenshot	
	CHROMEDRIVER CRASHES	 Fixed ChromeDriver is looking for Chrome binaries in a system PATH as well Fixed Maximize window and Full Screen 	
	CLICKING ISSUES	Implemented log-replay functionality. (Does not work for Android and Remote Browser yet)	
	DEVTOOLS WINDOW KEEPS CLOSING	 Fixed some error codes were not compliant to W3C standard Fixed console log with multiple arguments not bandled property. 	
	OPERATION NOT SUPPORTED WHEN	Fixed GetElementRect should allow doubles	

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 Now Open Eclipse IDE----> Create Java Project-→ Right Click Project Name→Properties→ Java Build Path→Libraries→Add External JAR→ add selenium-server-standalone-3.13.0 jar →Apply and Close.

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- Now Want Open the chrome browser with facebook.com page via Selenium Web driver Java
 Coding so here we need to write Java Code in Class file which we already created
- 7. Here in My Program I Create Ghanshyam_Selenium Java Project Folder name and

Opensite.java is my class file so write java code in this class file



 Right click on java program, select Run As and > "Java Application". After Code Successfully Run now see the output in Console Prompt



9. Now Your browser Open Automatically it shown data;

10. one more message display chrome is being controlled by Automated Test Software

It mean we open chrome browser and facebook.com page by selenium web driver java code

Successfully.



In this way Our First Module Run Successfully.

Module-2 In This Project I want to collect all Rating Feedback related our college available on website Justdial.com

1. Create One Java Project Folder Give Name→Review Demo→Now Create One Class File give name Practo.com

2. Right Click Project Name \rightarrow Properties \rightarrow Java Build Path \rightarrow Libraries \rightarrow Add External JAR \rightarrow add selenium-server-standalone-3.13.0 jar \rightarrow Apply and Close.

3. Similarly Copy the Chromedriver.exe file on my D Drive D:/soft/chromedriver.exe in this way.

4. Now Start right writing code for Practo.java to Collect all review of any Hospital.

Here I want search all feedback of SNJB-s-Late-Sau-Kantabai-Bhavarlalji-Jain-College-Of-

Engineering-Neminagar-Chandwad

Link of Feedback of All Customer-

https://www.justdial.com/Nashik/SNJB-s-Late-Sau-Kantabai-Bhavarlalji-Jain-College-Of-

Engineering-Neminagar-Chandwad/0253PX253-X253-151019113056-B2P9 BZDET/reviews/page-6

- 5. Now to save Feedback of all pages here I create one text file give name
- C:\Users\admin\eclipse-workspace\SeleniumProject\ReviewProj\Snjb.txt

Now First of All Execute Code here my file name Mouthshut.java

Mouthshut.com is website like Justdialcom



After Execution Code Mouthshut.java Chrome Browser Opened Automatically with Specified website you can also see the output of rating in console as well as file you created.



Now Lets Check the Feedback of All Customer go to your Eclipse Workspace Path my path is

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After Open Txt File See the Output



In This you can Collect all different kind of colleges, hospital rating and review from various website like mouthshout.com,Justdial.com via Selenium Web driver Tool

Module-3 Now I want Collect Review of Aditya-Birla-Memorial-Hospital-Chinchwad-Pune

Link- https://www.mouthshut.com/product-reviews/Aditya-Birla-Memorial-Hospital-Chchwad-Pune-reviews-925602748-page-2

After Execution of Code-

Aditya-Birla-Memorial-Hospital-Chinchwad-Pune-reviews - Notepad
File Edit Format View Help
url :https://www.mouthshut.com/product-reviews/Aditya-Birla-Memorial-Hospital-Chchwad-Pune-reviews-925602748-page-2
Post :I myself is a healthcare professional and I just want to share my personal amazg experience with Dr Madhulika 5gh. My spouse was admitted to hospital for maternit
My experience with the staff was also good. May almighty bless Dr Madhulika Sgh for her service.
All best to the hospital and team.
Regards
Mehboob Hudewala
Flag this review
Post :My younger cous brother hospitalized Aditya birla memorial hospital February 2017.
My experience is so good this hospital. This hospital is very clean nature. It is well mataed by hospital government.
This hospital whole staff is good and well educated and helpg nature. The various department are separated and specialist available for each department. The coastg is
Flag this review
Post :Aditya Birla is one of the best hospitals pune . It has huge and shy frastructure. The medical care is quite good . The surgeons are at their best and polite . I
Flag this review
Post :My younger brother hospitalized Aditya Birla Memorial hospital July 2017. My experience is so good this hospital. the whole staff is well educated and helpg n
the various department are separated and specialist available for each department.
the costg is more as compared to the other hospital. But they charge for the service they are offerg. Charges are of their high quality services.
frastructure is very good.
Flag this review
Post :They r dacoits. I took my daughter for eye check up. They took ?500. Then they called next week for their own confirmation on the power value her eyes. So next a
Flag this review
Post :Worst phone- attendants.
The cident took place on 6th June 2017. I had called for an urgent consultation with the doctor.the followg happened.
Me. Hello, can I talk to dr # it is very urgent.
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Selenium IDE:

1. Download Selenium IDE Chrome Extension from following Link_

https://chrome.google.com/webstore/detail/selenium-ide/mooikfkahbdckldjjndioackbalphokd?hl=en

- 2. Click on Add to Chrome
- 3. Check the icon on of IDE Square in right side after browser after successfully installation to chrome
- 4. Now Click on record button do some operation on website...see the report in console of IDE command target and value....in this way you also find out xpath etc information.

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You can also check the Automated Test Case Pass or Fails see the following figure

Conclusion

In this way you learn how to use Selenium Open Source Tool for perform Automation Testing on web based application.