Assignments Module – 5

(Selenium IDE)

1. What is Automation Testing?

Automation testing is the execution of test cases using automation tools. It was executed with the help of script, code, and automation tools by a tester.

* In automation testing, a Quality analyst engineer writes the code in “Selenium automation” tools and runs it against the application so that we can test it.
* Results we receive with the help of automation tools.

There are a few steps that explain how to do automation testing.

1. Which Are the Browsers Supported by Selenium Ide?

The browser supported by the selenium ide are Mozilla, Firefox, Microsoft Edge, Safari, Google Chrome, and opera.

* It’s a Firefox plugin.
* It allows users to test web applications across different browsers ensuring compatibility and consistent behaviour.
* It’s a package of software tools.
* Each providing services to different testing needs of an organization.
* Selenium web Driver allows users to write tests in various programming languages.
* It also supports Linux/Unix, Mac, and Windows.

1. What are the benefits of Automation Testing?

Automation testing is a must in many ways. It helps to evaluate huge data efficiently tested and results are accelerated, time saving, helps in test coverage and many plus points are there with automation.

1. What are the advantages of Selenium?

Selenium is an open-source testing tool that supports different Web browsers, freeware, and portable tools.

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| * Supports a variety of languages | * like Java, Python, Perl, C#, Ruby, Groovy, JavaScript, and VB script. |
| * Supports many operating systems | * like Macintosh, Windows, Linux, and Unix. |
| * Compatible across multiple browsers. | * Internet Explorer, Firefox, Chrome, Opera, Safari etc. |
| * This can be used for | * Android, iPhone, and Blackberry based on application testing. |
| * Supports Very less CPU | * And RAM consumption for script execution. |
| * Integrated with testing framework. | * For source code compilation reports. |
| * Testing implementation is easy in Selenium. | * Re- usability testing is easy in Selenium. |
| * Benefits of web drivers | * Different language supports. |
| * Cross device testing. | * Parallel test execution. |

1. Why should testers opt for Selenium and not QTP?

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| Selenium | Not QTP |
| * Free and open source. | * While QTP is paid commercial tool. |
| * Supports multiple languages. | * Is mostly in VB scripting environment. |
| * OS independent and allows test scripts to run across all browsers. | * QTP test scripts run only on the Windows environment and cannot be run across all browsers. |
| * Allows you to write one script for any browsers. | * Can run tests only in specific versions of Firefox, Chrome, and IE. |
| * Allows recording and playback. | * Play it back repeatedly in future test runs. |
| * Selenium is web-based applications. | * QTP is client server applications. |
| * Incorporated in both ways. | * QTP is more functional capability. |
| * But it’s limited by its constraints in flexibility and cost effectiveness. |
| * This gives selenium an edge that is advantage. | * Parallel testing is not available on HP QTP. |

1. To validate the Swaglab website Login and logout process page