SOFTWARE TESTING ASSIGNMENT

(Module-5 Selenium IDE)

Que: **What is Automation testing?**
Ans: Automation testing is the execution of Testcase with the use of automation tools. It is done with the use of script, code and automation tools by a tester.

In Automation testing, QA engineer write the code in automation tools like "Selenium" and run it against the application which we want to test it. It will test the application & give result.

Que: **Which are the Browsers supported by Selenium Ide?**
Ans: The Browsers Supported by the Selenium Ide are Mozilla , Firefox, Google Chrome, Microsoft Edge, Safari and Opera.

Que: What are the benefits of Automation Testing?
Ans: Benefits of Automation Testing are:
i) Saves time
It helps the testing team to use less time to validate newly created features.
ii) Improve productivity
Automation tests do not require human intervention during executions, so testing an application can be done late at night, and we can get the results in the next morning.
iii) Increase accuracy
it reduces the chances of Errors. The chance of errors may increase when testing a complex use case. There is a good accuracy, as we get he same result each time on performing the same test case.

iv) Increases test coverage: Automation testing allows the user to test the application on different web browsers and operating systems. This helps to ensure that the application works well on all platforms

v) **Reduces costs**: Automated testing can reduce hourly fees by more than 75% .

vi) **Detects bugs earlier**: Automation testing is the only way to keep pace with Agile development and comprehensively verify software for all possible bugs .
vii) Easy regression testing: We can reuse the test scripts in automation testing, and we don't need to write the new test scripts again and again. These test cases can be used in various ways, as they are reusable. Reusability helps to reduce the cost and also eliminate the chances of human error .

viii) Better allocation of resources: Automation testing mainly focuses on reducing manual human activity with devices or systems. It increases the efficiency, effectiveness, and coverage of software testing. It saves time and effort .

Que: What are the advantages of Selenium?
Ans: The advantages of Selenium are:
i) Selenium is pure open source, freeware and portable tool.
ii) Selenium Supports variety of languages that include Java, Perl, Python, C#, Ruby, Groovy, Java Script and VB Script.
iii) It supports many operating systems like Windows, Macintosh, Linux, Unix .

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iv) It supports many browsers like Internet Explorer, Chrome, Firefox, opera, Safari etc.
v) It can be integrated with ANT or maven kind of framework for source code compilation.
vi) It can be integrated with testNG testing framework for testing our applications and generating reports.
vii) It can be used for Android, iphone, Blackberry based on application testing
viii) It Supports very less CPU and RAM consumption for scripts execution.

Que: Why testers should opt for Selenium and not QTP?
Ans: Testers should opt for Selenium and not QTP because:

- Selenium is an open source tool, while QTP is a commercial tool.
- Selenium is used specially for testing web based applications while QTP can be used for testing client server application also.
- QTP has much more functional capabilities than Selenium, but it is limited by its constraints in flexibility and cost-effectiveness, both of which is incorporated in Selenium.
- Parallel testing is not available on HP QTP, which gives Selenium an edge.

Que: **To validate the Swaglab website Login and logout process page**
https://www.saucedemo.com
Ans: