**Module – 4**

**AUTOMATION CORE TESTING ( LOAD RUNNEER UP AND SELENIUM IDE)**

1. Which components have you use in load runner?

Ans.  The components of Load Runner are The **Virtual User Generator, Controller, and the Agent process, Load Runner Analysis and Monitoring, Load Runner Books Online**.

1. How can you set the number of users in load runner ?

Ans. You can set the number of users **in the controller section while creating your scenarios**. Many other advanced options like ramp-up, ramp-down of users are also available in the Controller section.

1. What is correlation ?

Ans. Correlation is a statistical term describing the degree to which two variables move in coordination with one another. If the two variables move in the same direction, then those variables are said to have a positive correlation. If they move in opposite directions, then they have a negative correlation.

1. What is the process for developing a user script?

**Ans. There are 5 steps for developing a vuser script.**

1. recording the vuser script .
2. edit the vuser script.
3. runtime setting .
4. run the vuser script in stand-alone mode.
5. incorporate the vuser script into a load runner scenario.
6. How load runner interacts with application ?

Ans. Load Runner simulates user activity by **generating messages between application components or by simulating interactions with the user interface such as keypresses or mouse movements**. The messages and interactions to be generated are stored in scripts.

1. How many vuser are required for load testing ?

**Ans.** In that case you could configure the load test to stay at **60 users** for most of the day, and ramp-up to 100 users during the peak hours of operation, then ramp-down back to normal load.

1. What is the relation between response and throughput ?

**Ans.** Response time and throughput are related. **The response time for an average transaction tends to decrease as you increase overall throughput**. However, you can decrease the response time for a specific query, at the expense of overall throughput, by allocating a disproportionate amount of resources to that query.

1. What is the difference between hits/second and request /second ?

Ans. Hits/second are the number of HTTP requests made by VUsers to the Web Server in a scenario or session step run on a per second basis. Requests/second are the number of requests completed during each second of scenario run.

1. What is automation testing ?

Ans. Automation Testing is **a software testing technique conducted by quality assurance with the help of a computer program or Test automation tools**. It is a process of executing a set of predefined tests to validate the functionality of a software product.

1. Which are the browser supported by selenium ide ?

Ans. Selenium IDE has add-ons for **Firefox and Chrome** browsers. Selenium IDE comes with a rich set of commands that are powered by Selenese and it allows you to record and test different interactions of a web application with the browser.

1. What are the benefits of automation testing ?

Ans. Test automation **reduces the instances of human errors, generating consistent and reliable results every time**. This means higher quality, reduced bug-fixing cost, lesser effort, and higher productivity for teams.

1. What are the advantage of selenium ?

Ans. Selenium is the most popularly used freeware and open source automation tool. The benefits of Selenium for Test Automation are immense. Importantly, it **enables record and playback for testing web applications and can run multiple scripts across various browsers**.

1. Why tester should opt for selenium and not QTP ?

Ans. With Selenium grid, you have the ability to run as many tests as you want. Further, you can achieve this when you need and in parallel. You will just need a browser so that you can run the test. **With QTP testing tool, there is no resource like selenium grid and hence selenium takes preference here.**

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