**Module:-4**

**Which components have you used in Load Runner?**

**ANS:-**

Vuser generator - For generating Scripts

Controller - For creating and executing scenarios

Analyzer - To analyze results

**How can you set the number of Vusers in Load Runner?**

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

**What is Correlation?**

**ANS:**- Correlation is used to obtain data which is unique for each run of your test script (ex: session ids). While recording, these dynamic values are hard-coded in your script causing the script to fail during playback. Correlation is a technique where dynamic values are not hard-coded in your script but are extracted at run-time to avoid failure.

**What is the process for developing a Vuser Script?**

**ANS:-**

There are 5 steps for developing a vuser script.

recording the vuser script .

edit the vuser script.

runtime setting .

run the vuser script in stand-alone mode.

incorporate the vuser script into a load runner scenario.

**How Load Runner interacts with the application?**

**ANS:**- LoadRunner 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.

**How many VUsers are required for load testing?**

**ANS:-** While many variables affect accuracy, the number of concurrent virtual users is one of the most important. Ideally, you could test with as many virtual users as you need. In practice, this may be too expensive because load testing software is priced on the number of concurrent virtual users.

**What is the relationship between Response Time and Throughput?**

**ANS:-**

**Throughput** and r**esponse time** are related. The average transaction’s response time tends to decrease as overall throughput increases. However, by allocating a disproportionate amount of resources to a specific query, you can reduce response time at the expense of overall throughput.

That’s all there is to it! When we test websites and apps to ensure they work well for a large number of people, we pay close attention to throughput and response time. Just as we want our roads to be able to handle a large number of cars without becoming too congested, we want our websites and apps to be able to handle a large number of users without becoming too slow or frustrating.

**To test the Performance testing on “Tops Technologies website”**

**ANS:-**

**Normal script of web tours:-**

**ANS:-**

**What is Automation Testing?**

**ANS:-** Testautomation is the use of software to control the execution of tests, the comparison of actual outcomes to predicted outcomes, the setting up of test preconditions, and other test control and test reporting functions.

**Which Are The Browsers Supported By Selenium Ide?**

**ANS:-**

**Chrome**

**Edge**

**Firefox**

**IE**

**Safari**

**What are the benefits of Automation Testing?**

1. Saving Costs

2. Faster Feedback Loop

3. Better Allocation of Resources

4. Guarantees Higher Accuracy

5. Increased Test Coverage

6. Detects Bugs Earlier

7. Test at Scale

8. Maximizes ROI

**What are the advantages of Selenium?**

* Flexibility
* Extensibility
* Open source, no licensing cost
* Supports test scripts written in various programming languages
* Test case execution on multiple operating systems
* Parallel and distributed testing
* Supports many browsers
* Non-programmers can also use it by using the record and playback feature

**Why testers should opt for Selenium and not QTP**

License:-It is an open source tools

Programming language:-JAVA,C#,RUBY,PYTHON,PERL,OHP AND JAVA SCRIPT

Operating system:-Work on windows, macOS,Linux,UNIX

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