Module : 4

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**\*Which components have you used in load runner?**

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?**

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?**

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 proccess for devloping a vuser scripct?**

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 LoadRunner scenario.

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

Protocol is used in Load Runner to interact with the application.

How many VUsers are required for load testing?

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

The Throughput shows the amount of data in bytes that the Vusers received from the server in a second. When It is compared with transaction response time, throughput and response time get decreased.

The peak throughput and highest response time would occur approximately at the same time.

**\*What is the difference between hits/second and requests/second?**

Hits per second means the number of hits the server receives in one second from the vuser.

Request per second is the number of request the vuser will request from the server.

**\*To test the Performance testing on “Tops Technologies website” :- https://www.topsint.com/**

1. to Record all top level menu

2. to Record minimum 10 Vuser on this website

3. save all (Script,Design,Graph)

**\*what is automation testing?**

automation Testing is a software testing technique that performs using special automated testing software tools to execute a test case suite ...

**\*. which are browser supported by selenium ide?**

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.

**\* What are the benefit of automationtesting?**

The advantages of automation testing are given as follows –

Fast development and delivery

Automated tests can be executed repeatedly and completed rapidly. We do not have to wait for weeks to execute the tests; few hours are enough for execution. Switching from manual to automation reduces the waiting time and boosts development.

Accuracy improvement

In manual testing, there is a chance of mistakes whether you are an experienced testing engineer. The chances of errors may increase when testing a complex use case. But Automation testing reduces the chances of errors. There is good accuracy, as we will get the same result each time on performing the same test cases.

Saves time

Automating the testing process helps the testing team to use less time to validate newly created features. For instance, in manual testing, there is a need to write thousand test cases for a calculator application, but automation makes the process much faster.

Productivity improvement

As during execution, automation tests do not require human intervention, so testing an application can be done late at night, and we can get the results next morning. Software developers and testers require less time on automation testing.

Early bug detection

By automation testing, it is easy to detect critical bugs in the initial phases of software development. It reduces the cost and helps us to spend fewer working hours to fix such problems. It increases the efficiency of the team.

other benefits of automation testing are listed as follows -

In comparison to manual testing, automation testing requires fewer resources.

It makes load and performance testing, stress testing, and reliability testing possible.

It is more reliable, as it reduces the occurrence of errors. It is reliable because it tests the application with the help of tools and test scripts.

With automation testing, test engineers are free to focus on other work.

It improves the testing coverage as the automatic execution of test cases is faster than manual execution.

Automation testing allows the execution of test cases in a 24x7 environment.

It enhances the knowledge of test engineers by producing a repository of different test cases.

Batch execution is possible using automation testing because all the written scripts can be executed simultaneously.

Automation testing is 70% faster than manual testing.

**What are the advantages of Selenium?**

1)Very easy to use and install.

2)No programming experience is required, through knowledge of HTML and DOM are needed

3)Can export tests to formats usable in Selenium RC and WebDriver

4)Has built-in help and test results reporting module.

5)Provides support for extensions.

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

Selenium is an open source whereas 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

Selenium supports Firefox, IE, Opera, Safari on operating systems like Windows, Mac, Linux etc. however QTP is limited to Internet Explorer on Windows.

Selenium supports many programming languages like Ruby, Perl, Python whereas QTP supports only VB script