**Module-4 Automation Core Testing**

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

**Ans:**

Load Generator generates the load against the application by following scripts.

* (Virtual User Generator) for generating and editing scripts.
* Controller controls, launches and sequences instances of Load Generator - specifying which script to use, for how long etc

1. **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

1. **What is Correlation**

Ans:

Correlation is the capturing of dynamic values passed from the server to the client and back. We save this captured value into a Load Runner parameter, and then use this parameter in the script in place of the original value.

1. **What is the process for developing a VUser Script?**Ans:  Record the VUser Script.

Playback and improve the recorded VUser script.

Define and test the different run-time parameters.

Use the script in a Load Runner scenario

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

Ans:

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

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1. **How many Virtual Users are required for load testing?**

**Ans**:

For example, if you run a load test with 10,000 virtual users, each making a request every 20 seconds (3 requests per minute), then you're making 30,000 requests per minute, which equals 500 requests per second.

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

Ans:

In terms of load/Performance testing. Throughput and Response times are inversely proportional. i.e With increase in response time throughput should decrease. With increase in Throughput response time should decrease.

1. **What is Automation Testing?**

Ans:

Automated testing is a process that validates if software is functioning appropriately and meeting requirements before it is released into production. This software testing method uses scripted sequences that are executed by testing tools.

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

**Ans:**

Selenium IDE has add-ons for Firefox and Chrome browsers.

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

Ans:

Automated Testing Saves Time and Money. ...

* Vastly Increases Your Test Coverage. ...
* Testing Improves Accuracy. ...
* Automation Does What Manual Testing Cannot. ...
* Automated Testing Helps Developers and Testers. ...
* QA and Dev Team Morale Improves. ...
* Ease of Test Creation. ...
* Automate in Your CI/CD.

1. What are the advantages of Selenium?

Ans:

Open-Source:

* Supports Operating Systems:
* Support across browsers:
* Tests across devices.
* Constant updates.
* Ease of implementation.
* Reusability and Add-ons

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

Ans:

Selenium, however, supports a wide range of programming languages. QTP/UFT test scripts run only on the Windows environment. They cannot be run across all browsers. On the other hand, Selenium is OS independent and allows test scripts to run across all browsers