***TOPS******Technologies Pvt.Ltd***

***Software testing Assignment***

**Module–5 (Manual Testing)**

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

**Ans:** 1. Load Generator generates the load against the application by following scripts.

2. VuGen (Virtual User Generator) for generating and editing scripts.

3. Controller controls, launches and sequences instances of Load Generator – specifying which script to use, for how long etc.

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

**Ans:** while running the test, go to Vuser - add users and it pop up another screen - here you have your selected script with LG and quantity to add user. go ahead and add the user. those users will be in DOWN status. you need to start the user from the VUSER screen.... make sure you have DATA in your scripts so that it supports 150 more user.

* **What is Correlation?**

**Ans:** The Indeed Editorial Team comprises a diverse and talented team of writers, researchers and subject matter experts equipped with Indeed's data and insights to deliver useful tips to help guide your career journey.

Understanding and analysing various correlations can be beneficial across different industries. For example, if you own a bakery, you might decide you'll make more coconut maple donuts on Fridays based on the correlation between coconut maple donut demand and the day of the week. Though there was a causal relationship in this circumstance, it's important to note that won't always be the case. All in all, knowing the correlation between two variables can help you make decisions that could positively impact your business. Calculating correlation is especially helpful if you're an investment manager or analyst.

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

**Ans:** The script development process in VUGen. 1. Record the Script: Usually, this is the first step of scripting where every user action is recorded into a script. 2. Replay and Verify: Once the script is recorded, reply the script to ensure its working right. Verify any impact through application frontend or database.

* **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:** All these have to be done for 10 users. So, now when we need to test the application load for 10 users then we can achieve this by manually putting load by 10 physical users from different machines instead of using a tool.

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

**Ans:** 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?**

**Ans:** Hits per second represents the number of requests sent to the server in one second (the load which the server is being hit). Hits per second is the total load set by the concurrent virtual users on the server, no matter if they are executed successfully or not on the server side.

* **(Selenium IDE)**
* **What is Automation Testing?**

**Ans:** With enterprises demanding faster and quality-driven releases of software to keep up with the market competition, manual testing can no longer serve the purpose. That is why Automation Testing has become a buzzword in today’s IT world. In this blog on what is Automation testing, you will learn to fulfill your organization’s goal to provide bug-free software with better quality that stands out from the competitors.

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

**Ans:** Selenium IDE : Selenium IDE can be used with Firefox as a plug-in. Selenium RC and Webdriver: Selenium RC and Webdriver can be used with a variety of browsers such as Internet Explorer, Mozilla Firefox, Google Chrome, Safari and Opera. The versions of these browsers that are supported can be found from the Selenium documentation here.

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

**Ans:** The core benefits of automation testing include that it can be performed as soon as the development starts, thereby detecting the bugs or defects earlier, helping you shift-left in a better and faster manner.

* **What are the advantages of Selenium?**

**Ans:** Selenium is an essential trace mineral that assists with cognitive function and fertility. Selenium may help prevent cardiovascular disease, thyroid problems, cognitive decline, which means disorders related to thinking, cancer, and others.

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

**Ans:** 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.