Module 4 Automation Core Testing (Load Runner Up and Selenium ID)

1.Which components have you used in Load Runner?

Ans. 1. Virtual User Generator: the virtual User Generator captures end-user  
business processes and creates and automated performance  
testing script, also known as a virtual user script.

2. Controller: The controller organizes, drives, manages and  
monitors the load test.

3. Analyzer: The Analysis helps you view, dissect and compare  
the performance results

4. Load Generator(S): the Load Generators create the load by  
running virtual users.

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

Ans. You can set the number of Vuser in the controller section while creating your scenario.

1. What is correlation?

Ans. Correlation is a statistical measure that indicates the extent to which two or more variables fluctuate in relation to each other.

1. What is the process for developing a Vuser Script?

Ans. There are 5 steps for developing a V user script.  
  
1-recording the V user script.  
  
2-edit the V user script.  
  
3-runtime setting.  
  
4-run the V user script in stand-alone mode.  
  
5-incorporate the V user script into a load runner scenario.

1. How Load Runner interacts with the application?

Ans. LoadRunner interacts with Software Applications based on Protocols.

1. How many VUsers are required for load testing?

Ans. The number of concurrent virtual users is one of the most important. Ideally, you could test with as many virtual users as you need.  It depends on website that how many virtual users are required to accurately simulate the expected load on a website.

1. What is the relationship between Response Time 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 requests/second?

Ans.  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.

1. Create a normal script of above website with correlate using hp default website.

Ans. Link is not working.

**Selenium (IDE)**

1. What is Automation Testing?

Ans. Automated testing is a software testing technique that automates the process of validating the functionality of software and ensures it meets requirements before being released into production.

2. Which Are the Browsers Supported By Selenium Ide?

Ans. The Browsers supported by Selenium Ide: Google chrome, Internet explorer 7 onwards, Safari, Opera, Firefox.

3.What are the benefits of Automation Testing?

Ans. Benefits of automation Testing are:

* + 70% faster than the manual testing.
  + Wider test coverage of application features.
  + Reliable in results.
  + Saves Time and Cost.
  + Improves accuracy.
  + Human Intervention is not required while execution.
  + Better speed in executing tests.
  + Re-usable test scripts.
* More cycle of execution can be achieved through automation Early time to market

4. What are the advantages of Selenium?

Ans. Advantage of Selenium

* Open source, free to use, and free of charge.
* Highly extensible.
* Supports various operating systems.
* Supports mobile devices.
* Can execute tests while the browser is minimized to be visible on the desktop.
* Can execute tests in parallel.

5.Why testers should opt for Selenium and not QTP?

Ans. Selenium, however, supports a wide range of programming languages. QTP 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.

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