Assignment – Module-4

→ Which components have you used in Load Runner?

The key components of LoadRunner are:

1. **Vuser generator –** For generating Scripts
2. **Controller –** For creating and executing scenarios
3. **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 the capturing of dynamic values passed from the server to the client and back. We save this captured value into a LoadRunner parameter, and then use this parameter in the script in place of the original value.

→ What is the process for developing a Vuser Script?

There are four steps for developing a vuser script.
1- Record the Vuser Script.
2- Playback / Enhance the recorded vuser script.
3- Define the various run-time settings & check
4- Incorporate the script in a LoadRunner scenario

→ How Load Runner interacts with the application?

- LoadRunner 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.

→ How many VUsers are required for load testing?

- The number of users required depends on your system under test, network configuration, hardware settings, memory, operating system, software applications objective of a performance test. There cannot be any generic value for Vuser.

→ What is the relationship between Response Time and Throughput?

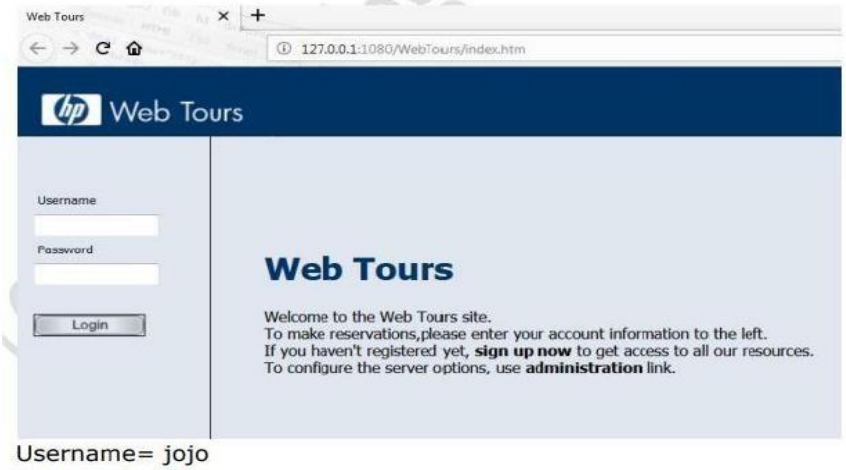
- The Throughput graph shows the amount of data in bytes that the Vusers received from the server in a second. When we compare this with the transaction response time, we will notice that as throughput decreased, the response time also decreased.

Similarly, 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.

→ create a normal script of above website with correlate using hp default website.



Username= jojo
Password = bean

To view goto link : **https://github.com/shukla2310/CAS/blob/main/DEMO_SCRIPT.rar**

→ What is Automation Testing?

- Automation testing is the process of testing software and other tech products to ensure it meets strict requirements. Essentially, it's a test to double-check that the equipment or software does exactly what it was designed to do. It tests for bugs, defects, and any other issues that can arise with product development.

→ Which Are The Browsers Supported By Selenium Ide?

It's available for :

Google Chrome,
Mozilla Firefox, and
Microsoft Edge.

→ What are the benefits of Automation Testing?

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

→ What are the advantages of Selenium?

- Selenium is an open-source automation testing tool and it is free of cost to use.
- Selenium provides high tester flexibility to write advanced and complex test cases.
- Supports test scripts written in any user-preferred languages such as C#, Java, Perl, PHP, Python, and Ruby
- Supports test case execution on multiple operating systems such as Windows, Linux, Android, Mac, and iOS.
- Supports testing on different web browsers such as Chrome, Firefox, Internet Explorer (IE), Opera, and Safari.
- Test cases can be executed while the browser window is minimized.
- Selenium supports parallel test execution.
- Selenium can be integrated with Jenkins, Docker, and Maven to attain continuous testing.

→ Why testers should opt for Selenium and not QTP?

- 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.

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To view goto link : **https://github.com/shukla2310/CAS/blob/main/TOPS_ASS.side**