

## **Module – 5 (Automation Core Testing)**

### **(Load Runner Up and Selenium IDE)**

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

- In Load Runner, various components work together to facilitate performance testing of applications
- Virtual User Generator :
  - For generating and editing scripts.
- Load Generator :
  - Generates the load against the application by following scripts.
- Controller :
  - During runs the Controller receives real-time monitoring data and displays status.
- Agent Process :
  - Manages connection between Controller and Load Generator instances.
- Analysis :
  - assembles logs from various load generators and formats reports for visualization of run result data and monitoring data.

#### **2. 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.

#### **3. What is Correlation?**

- Correlation in Load Runner is a critical process that ensures the smooth execution of scripts during load testing.
- It handles the dynamic nature of client-server communication, making scripts more robust and reliable.

#### **4. What is the process for developing a Vuser Script?**

- The development process in VuGen.
- Record the script
- Replay and Verify
- Enhance the Script
- Replay and Verify
- Configure Runtime Settings
- User for Load Scenarios

#### **5. How Load Runner interacts with the application?**

- Load Runner can simulate thousands of users concurrently using application software, recording and later analyzing the performance of key components of the application.
- Load Runner can generate the scripts by recording them, such as logging HTTP requests between a client web browser and an application's web server.

#### **6. How many VUsers are required for load testing?**

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

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

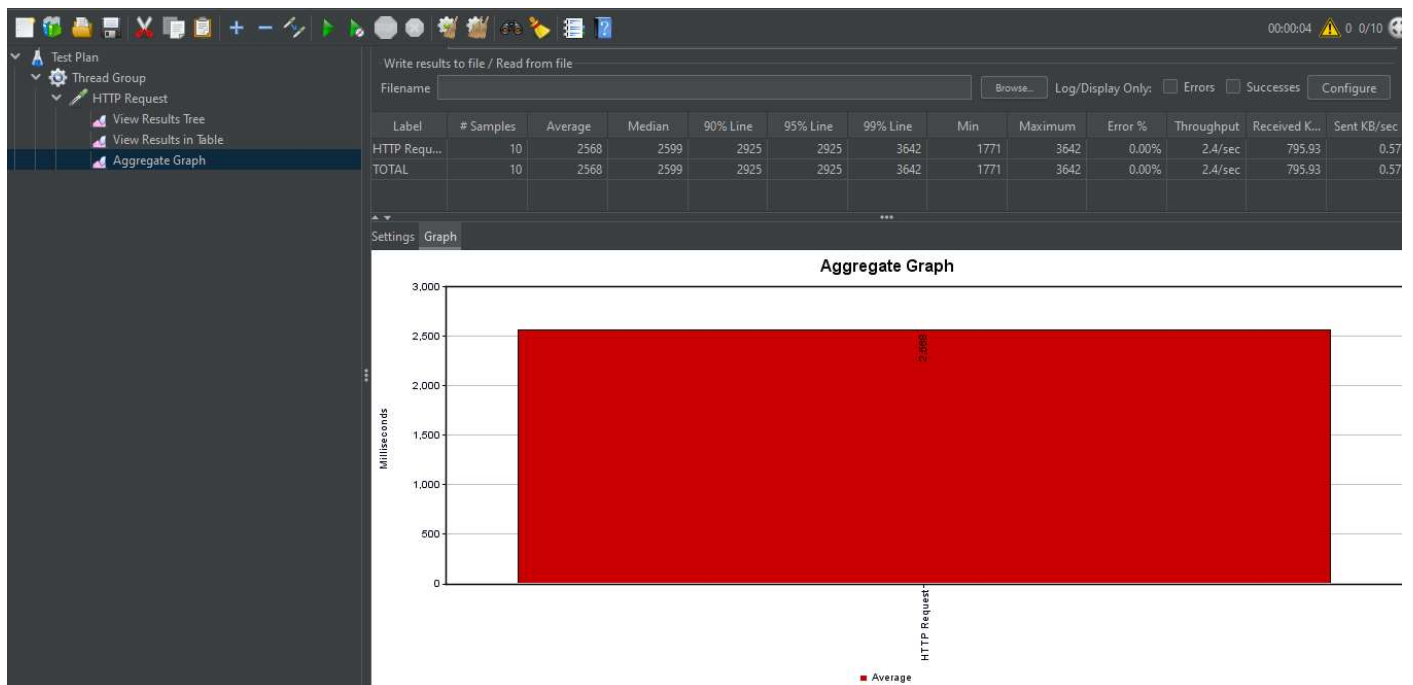
- The Throughput shows the amount of data in bytes that the Vusers received from the server in a second. When It is compared with transaction response time, throughput and response time get decreased.

## 8. To test the Performance testing on “Tops Technologies website” :-

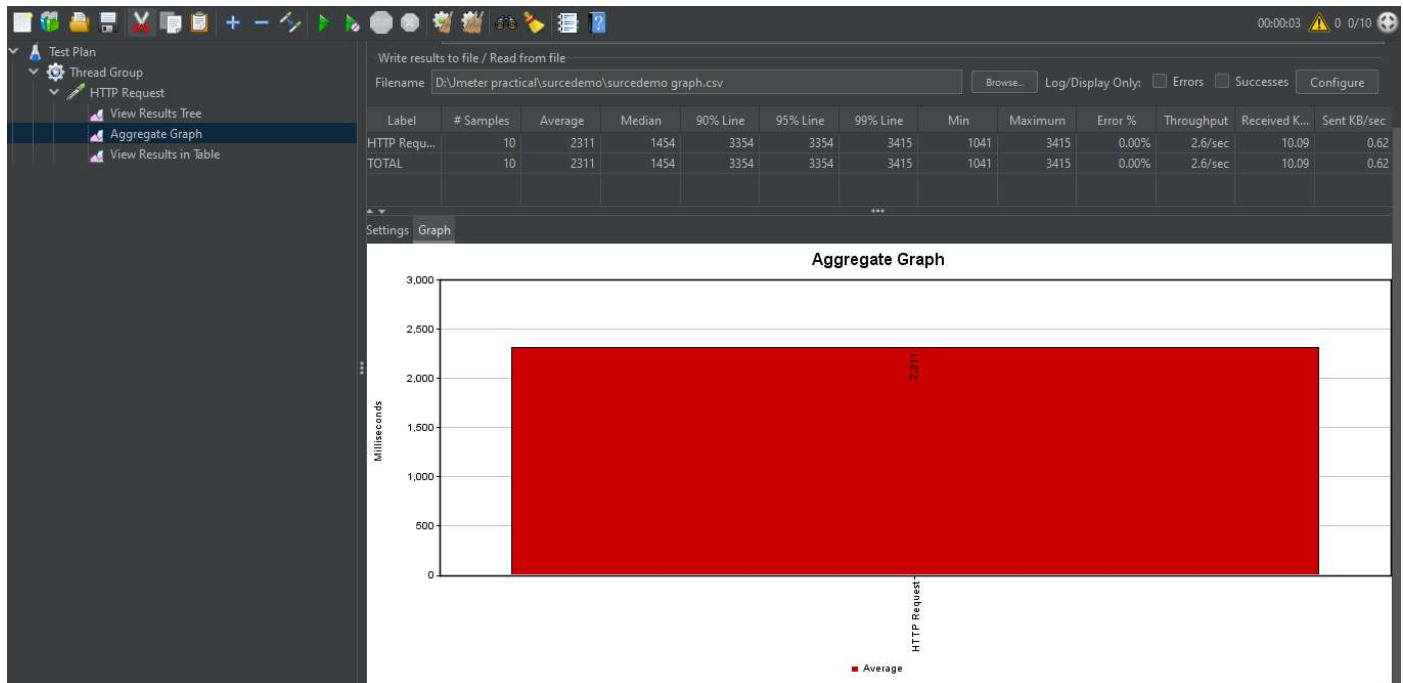
<https://www.saucedemo.com/>

- To record all top level menu
- To record minimum 10 Vuser on this website
- Save all (Script, Design, Graph)

### ➤ Tops Technologies graph



## ➤ Surecedemo graph



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

## 10.What is Automation Testing?

➤ Automation Testing or Test Automation is a software testing technique that performs using special automated testing software tools to execute a test case suite.

## 11.Which Are The Browsers Supported By Selenium Ide?

➤ Three components of selenium are: Selenium Web Driver, Selenium IDE, Selenium RC. Browsers supported by selenium are: Google chrome, Internet explorer 7 onwards, Safari, Opera, Firefox.

## 12.What are the benefits of Automation Testing?

➤ Some benefits of Automation Testing as follows:

- 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
- Reusable test scripts
- Test Frequently and thoroughly
- More cycle of execution can be achieved through automation
- Early time to market

### **13.What are the advantages of Selenium?**

- Advantages of Selenium as follow:
  - Open Source
  - Supports all browsers like IE, Firefox, Mozilla, Safari
  - Supports all Operating Systems.
  - Supports all programming languages Java, Ruby, C# and Python.
  - Run multiple tests at a time.

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

- With Selenium, you can easily build a Data Driven and Keyword Driven automation framework.
- Selenium Web Driver runs faster than Selenium RC. It supports executing tests on headless browsers. Selenium also supports iOS and Android platforms.

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