Software Testing Assignment

# Module-4 Automation Core Testing

# (Load Runner Up and Selenium IDE)

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# \* Which Components have you used in Load Runner?

* Load Runner has **4** Components: Virtual User Generator, Analyzer, Controller and Load Generator.

# \* 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 in JMeter is **the process of capturing and storing the dynamic response from the server and passing it on to subsequent requests**.
* In JMeter, correlation is very important. That's because dynamic sites require correlation during performance load test scripting.

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

1. Open a script in VuGen.
2. Select **File > User-Defined Templates > Export to Template**.
3. Enter a name and location for the template.
4. Click **OK** to create the template.

# \* 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.
* LoadRunner can generate the scripts by recording them, such as logging HTTP requests between a client web browser and an application's web server.

# \* How many Vusers are required for load testing?

* (concurrent users) x (requests per user per minute) = total requests per minute
* 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.

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

* Response time and throughput are related. The response time for an average transaction tends to decrease as you increase overall throughput.

# \* 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**.

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