Module-4

Automation core Testing (Load runner Up and selenium IDE)

* Which components have you used in Load Runner?
* The key components of load runner
* Load generator generates the load against the application by following scripts
* Virtual user generator for generating and editing scripts
* 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?
* You can set number of virtual user in the controller section while creating your scenario
* Many other advanced option like ramp-up ramp-down of virtual user are also available in the controller section
* What is Correlation?
* Correlation test is used to evaluate the association between two or more variables.
* What is the process for developing a vuser Script?
* Recording the virtual user script
* Edit the virtual user script
* Runtime setting
* Run the virtual user script in stand alone mode
* Incorporate the virtual user script into a load runner scenario
* How load Runner interacts with the application?
* Load runner simulates user activity by generating messages between application components or by simulating interactions with the user interface such as key pressed or mouse movements
* The message and interactions to be generated are stored in scripts
* How many VUsers are required for load testing?
* For example if you ran a load test with 10,000 virtual user each making a request every 20 seconds(3 request 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 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
* What is the difference between hits/second and requests/second?
* Hits per second mean the number of hits the server receives in one second from the virtual user
* Request per second is the number of requests the virtual user will request from the server
* 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?
* Selenium IDE is chrome browsers and firefox browsers supported by selenium IDE.
* 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
* What are the advantages of Selenium?
* Very easy to use and install
* No programming experience is required, through knowledge of HTML and DOM are needed
* Can export tests to formats usable in selenium RC and webdriver
* Has built-in help and test results reporting module
* Provides support for extensions.
* Why tester should opt for Selenium and not QTP?
* Selenium however support a wide range of programming language.QTP/UFT test scripts run only on the windows environment
* They cannot be run across all browser on the other hand.
* Selenium is OS independent and allows test scripts to run across all browsers.