Non- Functional Requirements for Demoguru99 Application

* Site should be support for 50 concurrent user counts with 10 ramp-up-period of seconds.
* Store the All the modules in Controller using Transaction controller.

Logon the application using credential and then validate the Text response in the login page.

* Navigate the New Customer page and enter the customer details then click on submit and validate text response message in the CustomerRegMsg.
* Validate Multiple New Customer details use parameterization.
* Add time delay as 2 seconds under the New Customer Controller using constant timer.
* Navigate the Logout page and validate text response messages.
* Add time delay as 2 seconds under the Logout Controller using constant timer.
* Validate all the module should not take more than 3 seconds, response message and response status code using assertions.
* Validate Test results using listeners.
* Test the results using Balzemeter tool.
* Validate the client side metrics.
* Response time
* Throughput
* Error rate
* 90% Response time.
* Validate the server side metrics using jp@gc - PerfMon Metrics Collector.
* CPU, Memory, Disk I/O, Network Utilizations.

Performance Testing Tool

* Apache JMeter

The **Apache JMeter™** application is open source software, a 100% pure Java application designed to load test functional behavior and measure performance. It was originally designed for testing Web Applications but has since expanded to other test functions.

Advantages

* Ability to load and performance test many different applications/server/protocol types
* Full-featured Test IDE that allows fast Test Plan recording
* CLI mode to load test from any Java-compatible OS
* A complete and ready to present dynamic HTML report
* Easy correlation through the ability to extract data from most popular response formats, HTML, JSON, XML or any textual format
* Complete portability and 100% Java purity
* Full multithreading framework
* Caching and offline analysis/replaying of test results