



# SWE 4604

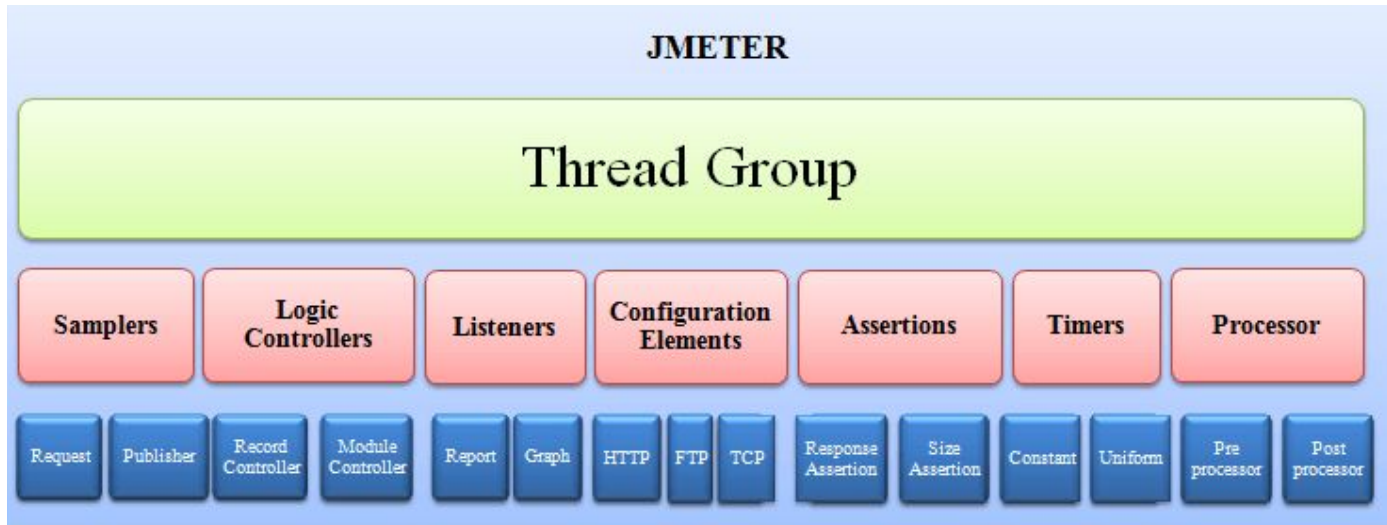
Software Testing and Quality Assurance Lab

Lab 7

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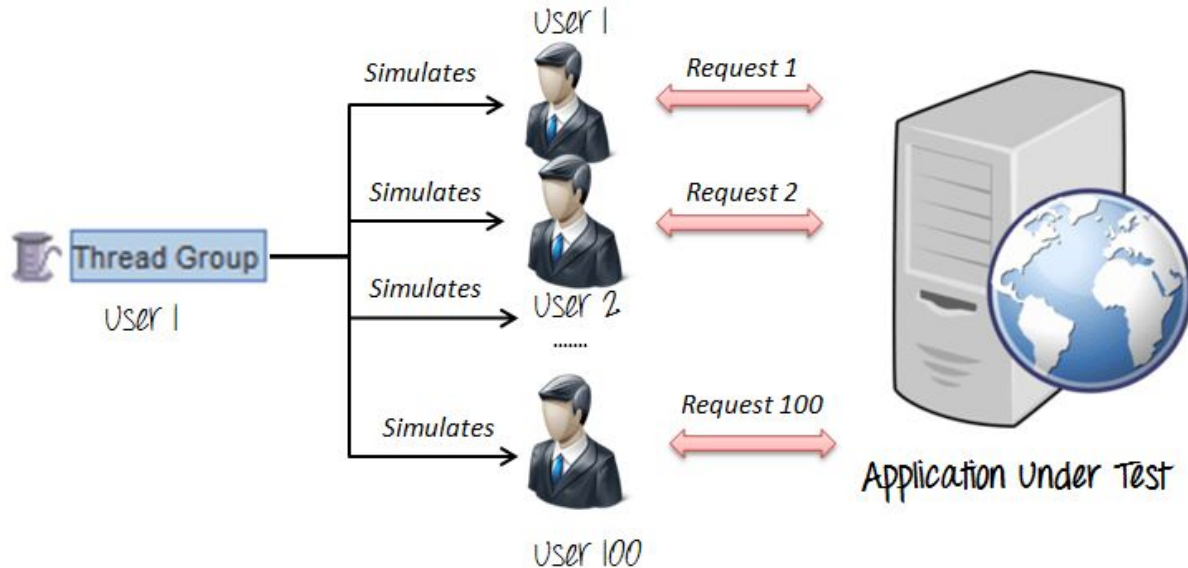
# Jmeter

- ❖ JMeter is an Open Source testing software.
- ❖ It is 100% pure Java application for load and performance testing.
- ❖ JMeter is designed to cover various categories of tests, such as load testing, functional testing, performance testing, regression testing, etc.



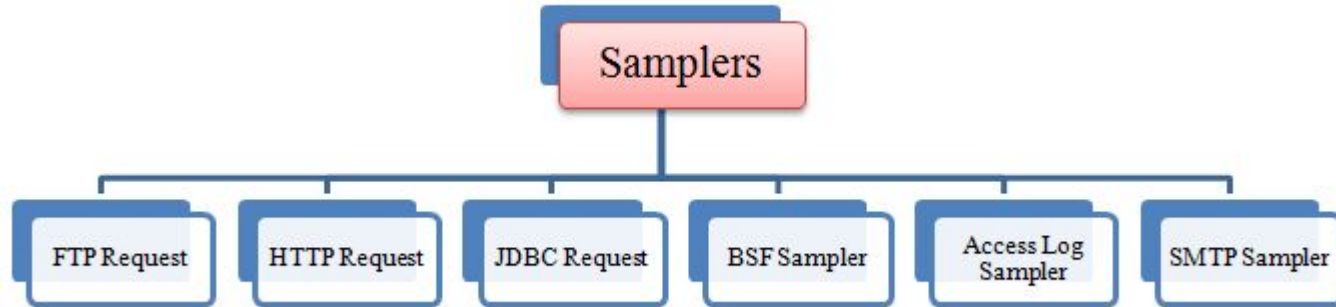
# Jmeter Components

**Thread Group:** Thread Groups is a collection of Threads. Each thread represents one user using the application under test. For example, if you set the number of threads as 100; JMeter will create and simulate 100 user requests to the server under test.



# Jmeter Components

**Samplers:** jMeter supports testing HTTP, FTP, JDBC and many other protocols. This are called samplers.



# Jmeter Components

**Listeners:** shows the results of the test execution. They can show results in a different format such as a tree, table, graph or log file.



# Jmeter Components

**Configuration Elements:** set up defaults and variables for later by samplers.

**Logic Controllers:** Let you define the order of processing requests in a thread. It lets you control “when” to send a user request to a web server. I.e., simple, random, recording module controllers.

**Assertion:** Assertion helps to verify that your server under test returns the **expected** results.

**Processor:** A processor is used to modify the samplers in their scope.

# Jmeter Testing Steps

Step 1 - Start Jmeter

Step 2 - Create a Test plan

Step 3 - Create a Thread Group (Users)

Step 4 - Add a Sampler (Http)

Step 5 - Add Listeners

Step 6 – Run Test Plan

Step 7 – Save Test Plan

# JMeter Alternatives



Locust



Load Runner

