

JMeter - Performance Testing Tool

Duration: 4 Weekends (Weekend Batch)

Prerequisites

- Knowledge of Basic Software Testing

Course Content

1. Introduction to Performance Testing

- What is Performance Testing?
- Benefits of Performance Testing
- Types of Performance Testing
- Performance Testing Life cycle
- Complete process involved in performance testing projects
- Key Business Processes & Use Cases
- Performance Testing concepts and terminologies
- HTTP Request/Response Structure

2. Tool Introduction

- Introduction about the JMeter
- Other Tools available in the market
- Installation & Running
- Introducing the JMeter GUI

3. JMeter

- JMeter Overview
- Features of JMeter- Advantages of JMeter
- JMeter Architecture
- JMeter Elements- Components of JMeter
- Installation

4. Building a Test Plan

- Elements of Test Plan
- Loading and Saving Elements
- Configuring Tree Elements
- Executing a Test Plan
- Reading Results of Test Plan

5. Scripting using JMeter

- Recording Web Application
- Scripts enrichment- Make the script work for different users, different environments

- Parameterization – Create variables for user input
- Correlation- Handling dynamic values
- Validation checks- Check the server response
- Transactions- Script standards
- Think Time
- Pacing

6. Parameterize with test data

- Identifying the test data on AUT
- Open a csv file with JMeter
- Reading the data from CSV files
- Using the parameters in JMeterTests

7. Execution

- Setup of Load Generators machines
- Scenario Set-up
- Execution in GUI Mode
- Execution in Non- GUI Mode

8. Result analysis

- Understanding of different formats of results in JMeter
- Client-side Metrics
- Server-side Metrics

9. Reporting- Report presentation to client

- Configuring and Generating the Spline Visualizer
- Generating the Aggregate Graph for multi group test
- Generating the Aggregate Report for multi thread group test
- Generating the Summary Report

❖ **Hands on Experience on Live Project**

❖ **Focus on performance testing core concepts.**

❖ **Practice exercises on different live applications**