



JMeter Training Course Content

Introduction

- Why use JMeter?
- Overview of functional/regression/stress testing principles

Designing a basic test plan

- How to identify your testing needs
- Defining the steps of your test

Creating your first JMeter test

- Introducing the JMeter GUI
- The basic elements of a JMeter test plan
- Building a functional test with your Internet browser
- Executing your functional test
- Reading the results of your test

The power of JMeter

- Comprehensive overview of the available JMeter components and functions
- Implementing an advanced functional test using the key JMeter functions and components
- Designing and implementing your own practical example to "test" a website of your choice

Regression testing

- Using your functional tests for regression testing
- Future proofing your tests

Stress testing

- Analysing your website traffic

- Identifying what you need to test
- Mimicking the real world in JMeter
- Extracting and reading the results

Other key features

- Stress testing a database
- Using JMeter from the command line
- Editing a test plan in a text/XML editor

JMeter Advanced Training Course

Distributed (Remote) Testing

- Preparing remote environment
- Running distributed
- Gethering and analysing results
- Using distributed testing with load balancers

Variables

- Creating user variable
- Extracting data from a web page to a variable

Functions

- Using functions
- Function helper

Using BeanShell Scripting

- Short introduction to BeanShell
- Creating samplers
- BeanShell listener
- __BeanShell function

Testing Application with Real Data

- Configuring Apache Web Server to record appropriate data
- Access Log Sampler
- Security issues

Advanced Options (depends on time in Public Course)

- Using Artificial Intelligence (Markov4Jmeter and others)
- Installing External Plugins

Web Application Performance Testing with JMeter Training Course

Performance Testing Fundamentals

- Stress testing
- Load testing
- Soak testing
- Running multiple threads
- Setting rump-up period
- Threads and users

Distributed Testing

- Configuring servers
- Gathering results

Submitting Forms

- Extracting form ID or checksums
- Generating sequence or random data
- Getting data from database
- Recording forms with a JMeter proxy server
- Submitting data recorded in log files

Managing Sessions

- Session managers
- Session per thread
- Session per user

Load Distribution

- Using Apache log files to determine distribution
- Analysing distribution and creating appropriate test plans

- Timers
- Gaussian Random Timer

Other Resources and Load Time

- Images
- Java scripts
- JMeter and HTTP headers policy (browser and proxy caching)

Resource Monitoring

- Monitoring and analysing CPU resources
- Monitoring database queries
- Monitoring memory utilization
- Monitoring network traffic
- Running monitoring tools periodically

Analysing and Interpreting Load Test Results

- Running tests at night and creating periodical reports
- Statistics available from JMeter
- Sample, Average, Median, Deviation, Throughput
- Response time graphs
- Margins of Error
- Analysing results with Excel
- Interpreting statistical results
- Finding the bottlenecks
- Regression and correlations

Agile Software Testing Training Course

Where the requirements come from?

- Traditional Business Analysis
- Use Cases, Scenarios and Tests
- Non functional requirements
- Performance
- Conformance
- UML in Business Analysis

Introduction to testing

- Functional Tests
- Regression Test
- UAT Tests
- Unit Tests
- Usability Tests
- Non Functional Tests
- Performance test
- Load test
- Stress test
- Soak test

Test or not to test

- Who is making decisions about what to test?
- The cost of testing irrelevant things
- Calculating ROI (what if something fails analysis)
- The role of Test Manager

The process of Testing

- Testing is a process and a strategy
- Identifying testing needs
- Gathering requirements (use cases, user stories)
- Scoping (choosing and prioritize scenarios)
- Designing tests
- Preparing data
- Preparing environment
- Creating or Recording tests
- Perform the test
- Analysis and reports
- Conclusions and improvement
- When to say "stop"

Product owner and Tests

- The customer representative and test priority

- Prioritizing tests
- Writing effective stories for UAT
- Acceptance criteria
- Group exercise to produce customer requirements and write stories based on the requirements and create tests

The sprint

- Sprint backlog and tests user stories
- Group exercise to plan a sprint

Finishing a sprint

- Scrum review meeting is a test

Is Agile and Scrum for you?

- Review of the Scrum process
- Comparison with other methodologies
- Benefits of pair programming
- Question and Answers Session



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