Durata curs: 40 cursuri X 2 ore

Initiere in testarea de performanta

Descrierea Cursului

Cursul de Initiere in testarea de performanta este gandit pentru a ajuta fiecare QA Engineer sa isi insuseasca cunostintele noi in zona testarii automate de performanta.Acest curs este destinat persoanelor ce au un minim bagaj de cunostinte in industria IT ce isi doresc sa progreseze in cariera, prin cresterea competentelor avute, atat tehnice cat si analitice.

Fie ca abia ai inceput o cariera in testare sau profesezi de ceva timp, cursul de initiere in testarea automata de performanta vine ca un plus celor ce activeaza deja in zona testarii automate si doresc sa implementeze in proiectele de zi cu zi testarea de performanta dar si celor ce se afla la inceput de drum si vor sa profeseze in aria testarii de performanta.

Cursul este gandit ca o rampa de lansare in zona testarii automate de performanta dar si o ca o crestere in senioritate prin dobandirea skilurilor de inginer in testare automata de performanta.

Ce vei invata

- ¨ Sa lucrezi cu Microfocus LoadRunner,Postman, Jira,Confluence
- ¨ Sa testezi aplicatii web, folosindu-te de: HTML, JSON
- ¨ Sa intelegi cum lucreaza un utilizator concurrent si cat de important este timpul de gandire in dezvoltarea unui scenariu de performanta
- ¨ Sa testezi din punct de vedere performanta aplicatii web folosind Javascript
- ¨ Sa intelegi inca de la faza initiala a proiectului care sunt cerintele non-functionale de baza si mai ales scenariile de business ce trebuiesc urmate pentru dezvoltarea scripturilor
- ¨ Sa creezi raportul final de testare de performanta folosind Confluence

Cui se adreseaza

- ¨ Absolventilor cursului de Initiere in Software Testing / Advanced Software Testing
- ¨ Persoanelor care ocupa un rol de Manual QA Engineer/Analyst
- ¨ Persoanelor care ocupa un rol de Automation Engineer si doresc sa isi imbunatateasca dobandeasca cunostinte in testarea de performanta

Ce vei invata

Capitolul 1 – Introduction course

- ¨ Introduction in Performance Testing
- ¨ Get access to tools: Microfocus LoadRunner,JMeter, N++,Postman

Capitolul 2 – Performance Testing Terminologies

- ¨ NFR, script, business process(flow)
- ¨ Transaction, endpoint, pacing, iteration
- ¨ Concurrent user
- ¨ Performance Scenario
- ¨ Throughput
- ¨ Response Time , 90 Percentile
- ¨ Baseline, Test environment, Test Data, Dry Run, SLA,Load Generator,log

Capitolul 3 – Types of Performance Testing

- ¨ Single User Baseline
- ¨ Load Test
- ¨ Soak Test (Endurance test)
- ¨ Stress Test
- ¨ Combined Test
- ¨ Understanding the business critical flows

Capitolul 4 – Microfocus LoadRunner

- ¨ Load Runner Architecture
- ¨ Load Runner – Virtual User Generator
- ¨ Load Runner - Controller
- ¨ Load Runner - Analysis
- ¨ Load Runner – Load Generator

Capitolul 5 – Practice

- ¨ End to end exercise, using knowledge from Course 2, 3 & 4

Capitolul 6 – Javascript Basics

- ¨ Data Types introduction
- ¨ Working with Strings / variables

Capitolul 7 – LoadRunner Virtual User Generator

- - Recording mode
- - Parametrization
- - Correlation
- - About web_reg_save_param function
- - About lr.evalString function
- - Designing a first script
- - Introduction to transactions
- - Usage of text checkpoints (about web.regFind function)
- - Running a first script and analyse the first results
- - Error Handling & Implementation

Capitolul 8 – Practice

- - End to end exercise using knowledge from Course 6,7

Capitolul 9 – LoadRunner Controller

- ¨ Understanding the role and the main options of the Controller tool
- ¨ Performance scenario – how to design and implement
- ¨ Performance scenario - types of performance scenarios
- ¨ Running a first performance scenario
- ¨ Monitoring resources and the test in real time
- ¨ Working with Load Generators
- ¨ Collect the first performance results

Capitolul 10 – Practice

- - End to end exercise using knowledge from Course 9

Capitolul 11 – LoadRunner Analysis

- - Understanding the role and the main options of the Analysis tool
- - Default Graphs
- - Additional Graphs
- - Global Filters

- Analize the performance results

Capitolul 12 – Practice
- End to end exercise using knowledge from Course 11

Capitolul 13 – Confluence & JIRA tools (for raising defects)
- Understanding the role and the main options of the Confluence tool
- Design the performance test report

Capitolul 14 – Final Evaluation