



Selenium GUI Automation with Java

An Orasi Training Course

Course Overview

Test Automation has a special place within the SDLC. It increases long-term efficiency of the software testing process. Selenium is an open-source suite of tools that can be used to automate web application testing. Selenium may be used for any task that requires automating interactions with the browser.

This class offers an introduction to Selenium, focusing primarily on Selenium WebDriver basics. Students will use Selenium WebDriver to drive a browser just as a user would manually, performing actions such as navigating a web application, clicking, entering and verifying text, interacting with checkboxes, dropdowns, radio buttons, and other elements on a webpage. Students will also be introduced to Selenium Grid, which offers distributed and parallel processing.

The class also offers the student the opportunity to use the Java programming language to perform basic WebDriver commands and accomplish tasks such as using mouse commands, handling windows, frames, and alerts, how to submit a form, as well as more advanced functions such as working with static and dynamic web tables and dynamic objects.

Orasi™ Software, Inc. delivers Selenium GUI Automation with Java as both on-site and instructor-led virtual classes to help organizations meet today's automated SOA testing challenges. This training is an opportunity for automation staff to gain basic WebDriver skills and is presented with a balance of lecture and hands-on exercises.

Duration: 3 days

Class Limit: 15 students

Labs: 50% of class time

Prerequisite: Knowledge of Java is encouraged but not required.

Target Audience

- Automation Engineers
- Quality Assurance Testers
- Business Analysts
- Anyone who desires a basic knowledge of open-source testing

Agenda

- Purpose of Test Automation
- Selenium Overview
- Key Features
- Selenium Suite
- Planning and Architecting
- Web Elements
- WebDriver Commands
- Keyboard Mouse events
- Exceptions and exception handling
- Creating JUnit Tests
- Assertions
- Windows and Frames
- Alerts
- Dynamic Object Handling
- Page Object Model
- Selenium Grid
- Next Steps

Objectives

This class teaches:

- How to perform functional testing using WebDriver, Java and Eclipse
- How to automate user interactions using WebDriver commands
- How to verify expected application results
- How to set up and run tests and test suites in JUnit
- How to implement exception error handling and waits
- Automated Testing Best Practices

For more information or to schedule this course, email training@orasi.com or call 678-819-5300.

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