Selenium Test Automation: From the Ground Up

- Understand the role and benefits of automation
- Learn the fundamentals of automating browsers with Selenium
- Learn how the principles of Object Oriented programming can be used to improve testing
- Understand how to apply automation to solving your testing challenges

Agile and automation are now playing an increasingly important role in the evolution of software development, and it's now more critical than ever for testing to keep pace with the shorter development cycles. Selenium is a popular open source browser automation tool which helps test teams increase the speed and quality of testing. This course provides those in testing and development roles the foundational skills required to leverage Selenium in order to write meaningful automated tests using sustainable methodologies.

Who Should Attend
This course is designed for those in software testing roles and developers interested in adopting test automation with Selenium. Attendees should have some familiarity with programming languages and concepts.

Laptop Required
This class involves hands-on activities using sample software to better facilitate learning. Each student should bring a laptop with a remote desktop protocol (RDP) client preinstalled. Connection specifics and credentials will be supplied during class. Please verify permissions with your IT Admin before class. If you or your Admin have questions about the specific applications involved, contact our Client Support team [1].

Course Outline

Introduction

Understanding the Web
What is the Domain Object Model (DOM)?
Anatomy of the DOM structure
Locating web elements
Exercise

WebDriver
Types of UI automation
WebDriver commands
Tooling

Record and Playback
Tooling Choices
Limitations
Troubleshooting and Debugging

Kantu
Exercise

Selenified
What is Selenfied?
Why use Selenfied?
Exercise

Writing Effective Tests
Basic Selenium steps
Overall test automation best practices
Exercise
Mobile Web compatibility
Exercise
Parameterized Testing
Exercise
Separate Selenium class tips

Distributed Testing
Selenium Grid
Configuring Selenium Grid Node
Demonstration

Wrap Up

Selenium
Selenium tools
Selenium WebDriver
Exercise
Advanced Selenium
Exercise

Additional resources