



Mobile Test Automation Workshop

Course Overview

With the growing number of mobile OSs, browsers, and platform combinations, comprehensive mobile web application testing can be a nightmare—but it doesn't have to be! We will demonstrate ways to leverage the open source Selenium (IDE) with cloud services to test **mobile web applications** across multiple browsers and platforms.

During this course you will:

- Understand mobile web page architecture and referencing page elements in test automation
- Discover how to leverage Selenium IDE tests using WebDriver for mobile web testing
- Learn how to troubleshoot mobile test automation scripts
- Understand technologies to optimize WebDriver test execution

Hands-on Exercises

In this workshop you will learn about mobile web application testing through hands-on activities, exercises, discussions, and demos. Students will experience how Selenium interacts with web browsers to test actions, inputs, and expected outcomes. Participants will examine how the Selenium framework works and learn how to expand Selenium tests to improve device and platform coverage. Students will also learn how to troubleshoot mobile web test automation scripts and technologies to optimize WebDriver test execution. This tooling and practice will then be applied to emulation testing techniques covered in the 2 day course to show how traditional web testing techniques can be transitioned to mobile web applications.

Students will complete hands-on exercises with their own laptops, so a laptop is required and software will need to be pre-loaded and configured before class begins.

Who Should Attend

This course is appropriate for experienced software test professionals and software developers

Course Structure

The Mobile Test Automation Workshop is a 1-day, hands-on course.

1-Day Workshop Course Outline

1. Understanding Web Page Construction and Automation
 - Web page architecture and page elements
 - Referencing web page elements in test automation scripts
 - Automated validation and verification of web page elements
2. Build Automated Tests using Selenium IDE
 - Test recording and playback
 - Test recording limitations and how to overcome them



- Troubleshooting failing or oddly behaving tests
 - Customizing and optimizing recorded tests
3. Introduction to Selenium RC
 - What is Selenium Remote Control?
 - How does Selenium RC interact with web pages?
 4. WebDriver (Selenium 2)
 - Advantages and disadvantages of WebDriver implementation
 - Leveraging Selenium IDE tests using WebDriver
 - Troubleshooting failing or oddly behaving tests
 - Customizing and optimizing recorded tests
 - WebDriver test automation best practices
 5. Execute WebDriver Tests using Selenium Grid
 - Distributing tests across multiple browsers
 - Distributing test execution across multiple machines
 6. Mobile Device Emulation in the Cloud using Sauce Labs
 - Leveraging Selenium IDE and WebDriver tests with Sauce Labs
 - Troubleshooting failing or oddly behaving tests
 - Optimizing testing for Sauce Labs
 - Expanding compatibility testing

Class Daily Schedule

Sign-In/Registration 7:30-8:30 a.m.

Morning Session 8:30 a.m.-12:00 p.m.

Lunch 12:00-1:00 p.m.

Afternoon Session 1:00-5:00 p.m.

Times represent the typical daily schedule and do not include morning and afternoon breaks typically included. Please confirm your schedule at registration.

Contact Us for More Information:

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