Introduction To Selenium Based Automation

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Introduction To Selenium Based Automation ***2022-09-22***

SLADE LANG

Selenium Python Framework Design in Keyword-Driven Testing Independently Published
A practical guide on automated web testing with Selenium using Python About This Book Write and automate tests for your applications with Selenium Explore the Selenium WebDriver API for easy implementations of small to complex operations on browsers and web applications Packed with easy and practical examples that get you started with Selenium WebDriver Who This Book Is For If you are a quality testing professional, or a software or web application developer looking to create automation test scripts for your web applications, with an interest in Python, then this is the perfect guide for you. Python developers who need to do Selenium testing need not learn Java, as they can directly use Selenium for testing with this book. In Detail Selenium WebDriver is a popular automated testing tool for web applications. Python is one of the top programming languages and when used with Selenium it can automate and test web applications. Using Python's unittest module, you can write test cases in Selenium. Over the years, Selenium has become a very powerful testing platform and many organizations are adopting Selenium WebDriver for creating automated user interface tests. The book's main aim is to cover the fundamentals related to Python Selenium testing. You will learn how the Selenium WebDriver Python API can be integrated with CI and Build tools to allow tests to be run while building applications. This book will guide you through using the Selenium WebDriver Python client library as well as other tools from the Selenium project. Towards the end of this book, you'll get to grips with Selenium Grid, which is used for running tests in parallel using nodes for cross-browser testing. It will also give you a basic overview of the concepts, while helping you improve your practical testing skills with Python and Selenium.
Selenium WebDriver Quick Start Guide Guru99
If you are a quality testing professional, or a software or web application developer looking to create automation test scripts for your web applications, with an interest in Python, then this is the perfect guide for you. Python developers who need to do Selenium testing need not learn Java, as they can directly use Selenium for testing with this book.
Selenium Testing Tools Cookbook Addison-Wesley Professional
An easy-to-understand guide that will get you acquainted with the core concepts of Selenium WebDriver Key Featuresa- Understand and work with the core concepts of Selenium WebDriver 3.0a- Learn how to design a Keyword driven framework with Database a- Find how to use Build triggers in Jenkins to automate tests DescriptionThe book starts by introducing the Selenium WebDriver 3 and Selenium Server by covering each aspect of it in detail. You will learn different concepts like instances and how instances relate to browser sessions. You will further explore the new features in Java 8 with the help of easy to follow examples. Moving on, you will create a Singleton class for fetching WebDriver instances and then explore the different kinds of waits in Selenium. You will then delve into the advanced WebDriver interactions using the Actions class and the JavascriptExecutor. You will then understand the various database operations which will help you with using the MySQL database to store our framework. Next, you will go through the TestNG framework, followed by parallel execution. Further, you will use Maven as a build tool and Jenkins as a build automation tool. You will go through the working of Selenium Grid along with Mobile automation. Lastly, you will be taken through Selenium 4 and it's AI integrated features.What will you learna- Learn the process of building a Selenium Framework a- Understand the Keyword Driven Framework concept a- Work with Document Object Model to access page elementsa- Integrate Maven and Jenkins with Selenium WebDrivera- Use Selenium Grid to run multiple tests across Who this book is forThis book has been designed for Automation developers who would like to build a Keyword Driven framework that fetches keywords from Database. It is also intended for audiences who are interested in understanding Selenium and designing a framework.Table of Contents1. First look at Selenium WebDriver and Web Elements 2. Looking at the various WebDrivers3. A brief look at Java 84. Deep dive into Selenium WebDriver5. Actions class and the JavascriptExecutor6. WebDriver Events7. Database Operations8. Introduction to TestNG framework9. Parallel Execution10. Understanding Maven11. Jenkins Introduction and Scheduling12. Selenium grid and executing in the cloud13. Mobile test automation using Appium14. A look at Selenium-4About the AuthorPinakin Chaubal, a BE (Computer Science) with 19+ years of experience in the IT area. He has done PMP, ISTQB, HP0-M47 (QTP 11.0 Functional testing expert), and INS-21(General Insurance). He is working as an Automation Architect at Intellect Design Arena Ltd. (Previously Polaris Consulting). Previously he has worked with companies like Patni, Accenture, ACS International (USA), L&T Infotech(USA & India), Polaris Financial Technology, and SQS. He carries six years of onsite experience in the US and eight months in Hong Kong & China, working closely with the client and getting involved in senior management and stakeholder meetings. The clients that he has worked for are YES Bank, HSBC, Travelers Insurance, Harleysville Insurance, Albertsons retail chain, Bellsouth Telecommunications GE-Fleet Services, and GE-Supply. He is the creator of Youtube channel 'Automation Geek, ' which teaches PMP, ISTQB, Test Automation using Selenium and Cucumber, and Performance testing using

JMeter 3.0. He is the author of 'Page Object Model using Selenium WebDriver and Java' and 'Selenium WebDriver Quick Start Guide'. He is also the reviewer of the newly released book on Selenium Frameworks - 'Selenium Framework Design in Data-Driven Testing' by Carl Cocchiaro.
Automating Software Tests Using Selenium BPB Publications
To learn about software-testing job opportunities and practice with sample scripts on how to automate software applications using Selenium Webdriver, TestNG, JUnit, Cucumber BDD within Eclipse-based Java Projects and build an extensive Data Driven Automation Framework that consists of Screenshot capability, Log4J Integration, XSLT Reporting, Parameterisation, Object Repositories, Excel Sheets–based Data Input/Outputs, Cross Browser Tests using Firefox, Chrome and Internet Explorer, this book is an unmatchable one. You can also enhance tests with Page Object Model, Reuse Selenium IDE scripts to Load Testing using JMeter!
Selenium WebDriver Practical Guide Apress
If you are a software developer with a basic knowledge of testing and are interested in automated testing using Selenium, this is the book for you. No prior knowledge of Selenium is required.
Instant Approach to Software Testing BPB Publications
Step by step directions to get started with Selenium using Python as a programming languageKey features Get introduced to the world of Selenium Understand the concept of locators in Selenium Learn how to write scripts using Selenium WebDriver in Python Learn the concepts of synchronization Learn how to handle different HTML elements like form, table, alert, frame, and dropdown Learn about design patterns like the page object model, data-driven tests, and adding assertionsDescriptionSelenium is the most popular open source test automation tool available in the market. In the last decade, its usage has dramatically increased in the IT sector across all types of organizations. The reason for its popularity is mainly because it supports multiple programming languages, test executions on multiple browsers and operating systems. In this book, we will learn about the different components of Selenium. We will discuss the concepts of WebDriver and learn how to apply test automation concepts with it to automate the testing of our application. We will learn the process of recognizing the test objects on the screen and writing Selenium commands using Python as a programming languageWe will also discuss how to use design patterns like the page object mode and data-driven testing to ensure building a robust test framework, which is modular and scalable in nature. What will you learnThe objective is to introduce the world of Selenium to a manual tester who knows Python as a programming language. You will learn to demystify the concept of identifying test objects and writing Selenium commands to create robust test scripts. This book will help learn to automate different HTML elements, which we come across in the web applications we need to test. You will understand how to build a good test suite by learning the concept of design patterns like the page object model and data-driven tests to ensure maintainability of code. Who this book is for This book is for people who have experience in manual testing and knowledge in Python as a programming language. This book will also be helpful for a developer who knows Python as a programming language and is looking for test automation as a career option. Table of contents1. Selenium - Important Conceptual Background2. Selenium IDE3. Locators in Selenium4. Installation and Setup5. Selenium WebDriver6. Unit Test Creation n Python7. Synchronizing Tests8. Parameterization of Tests9. Handling Different Web Elements10. Working with Frames11. Concept of the Page Object Model12. Implementing Selenium Grid About the authorPallavi has an overall professional experience of 14 years. She has worked in varied roles as a product/project manager in the presales team and marketing team for solutions on test automation tools.She holds two provisional patents along with other contributors for her work on building tool agnostic test automation framework solutions. Currently, she is acting as a test automation coach, writer, speakerand owner at 5 Elements Learning where she collaborates and works with test automation enthusiasts across the globe. As an avid learner, she likes to keep herself updated to the latest trends andTechnologies. She is a firm believer in a larger good and likes to live by example.She volunteers her time for the organization eVidyaloka where she acts as a centre administrator. She is a lifetime member for the Jabarkhet forest reserve and People for Animals.Her Website: http://5elementslearning.comHer LinkedIn Profile: https://www.linkedin.com/in/pallavirsharma/
Learn Selenium BPB Publications
Whether you are an experienced WebDriver developer or someone who was newly assigned a task to create automated tests, this book is for you. Since the ideas and concepts are described in simple terms, no previous experience in computer coding or programming is required.
Selenium Webdriver Packt Publishing Ltd
This is a cookbook packed with code examples and step-by-step instructions to ease your learning curve. This book is intended for software quality assurance/testing professionals, software project managers, or software developers with prior experience in using Selenium and Java for testing web-based applications. This book also provides examples for C#, Python, and Ruby users.
Learn Selenium in 1 Day Adactin Group Pty Limited
Take a deep dive into building data-driven test frameworks using Selenium WebDriver Key Features A comprehensive guide to designing data-driven test frameworks using the Selenium 3 WebDriver API, AppiumDriver API, Java-Bindings, and TestNG Learn how to use Selenium Page Object Design Patterns and D.R.Y. (Don’t Repeat Yourself) Approaches to software development in automated testing Discover the Selenium Grid Architecture and build your own grid for browser and mobile devices Use third party tools and services like ExtentReports for results processing, reporting, and SauceLabs for cloud-based test services Book Description The Selenium WebDriver 3.x Technology is an open source API available to test both Browser and Mobile applications. It is completely platform independent in that tests built for one browser or mobile device, will also work on all other browsers and mobile devices. Selenium supports all major development languages which allow it to be tied directly into the technology used to develop the applications. This guide will provide a step-by-step approach to designing and building a data-driven test framework using Selenium WebDriver, Java, and TestNG. The book starts off by introducing users to the Selenium Page Object Design Patterns and D.R.Y Approaches to Software Development. In doing so, it covers designing and building a Selenium WebDriver framework that supports both Browser and Mobile Devices. It will lead the user through a journey of architecting their own framework with a scalable driver class, Java utility classes, JSON Data Provider, Data-Driven Test Classes, and support for third party tools and plugins. Users will learn how to design and build a Selenium Grid from scratch to allow the framework to scale and support different browsers, mobile devices, versions, and platforms, and how they can

leverage third party grids in the Cloud like SauceLabs. Other topics covered include designing abstract base and sub-classes, inheritance, dual-driver support, parallel testing, testing multi-branded applications, best practices for using locators, and data encapsulation. Finally, you will be presented with a sample fully-functional framework to get them up and running with the Selenium WebDriver for browser testing. By the end of the book, you will be able to design your own automation testing framework and perform data-driven testing with Selenium WebDriver. What you will learn Design the Selenium Driver Class for local, remote, and third party grid support Build Page Object Classes using the Selenium Page Object Model Develop Data-Driven Test Classes using the TestNG framework Encapsulate Data using the JSON Protocol Build a Selenium Grid for RemoteWebDriver Testing Construct Utility Classes for use in Synchronization, File I/O, Reporting and Test Listener Classes Run the sample framework and see the benefits of a live data-driven framework in real-time Who this book is for This book is intended for software quality assurance/testing professionals, software project managers, or software developers with prior experience in using Selenium and Java to test web-based applications.This book is geared towards the quality assurance and development professionals responsible for designing and building enterprise-based testing frameworks.The user should have a working knowledge of the Java, TestNG, and Selenium technologies

An Introduction to Testing Web Applications with Twill and Selenium Packt Publishing Ltd
Work through practical examples to unlock the full potential of web scraping with Python and gain valuable insights from high-quality data Key Features Build an initial portfolio of web scraping projects with detailed explanations Grasp Python programming fundamentals related to web scraping and data extraction Acquire skills to code web scrapers, store data in desired formats, and employ the data professionally Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionWeb scraping is a powerful tool for extracting data from the web, but it can be daunting for those without a technical background. Designed for novices, this book will help you grasp the fundamentals of web scraping and Python programming, even if you have no prior experience. Adopting a practical, hands-on approach, this updated edition of Hands-On Web Scraping with Python uses real-world examples and exercises to explain key concepts. Starting with an introduction to web scraping fundamentals and Python programming, you'll cover a range of scraping techniques, including requests, lxml, pyquery, Scrapy, and Beautiful Soup. You'll also get to grips with advanced topics such as secure web handling, web APIs, Selenium for web scraping, PDF extraction, regex, data analysis, EDA reports, visualization, and machine learning. This book emphasizes the importance of learning by doing. Each chapter integrates examples that demonstrate practical techniques and related skills. By the end of this book, you'll be equipped with the skills to extract data from websites, a solid understanding of web scraping and Python programming, and the confidence to use these skills in your projects for analysis, visualization, and information discovery.What you will learn Master web scraping techniques to extract data from real-world websites Implement popular web scraping libraries such as requests, lxml, Scrapy, and pyquery Develop advanced skills in web scraping, APIs, PDF extraction, regex, and machine learning Analyze and visualize data with Pandas and Plotly Develop a practical portfolio to demonstrate your web scraping skills Understand best practices and ethical concerns in web scraping and data extraction Who this book is for This book is for beginners who want to learn web scraping and data extraction using Python. No prior programming knowledge is required, but a basic understanding of web-related concepts such as websites, browsers, and HTML is assumed. If you enjoy learning by doing and want to build a portfolio of web scraping projects and delve into data-related studies and application, then this book is tailored for your needs.

Learn Selenium in 24 Hours Packt Publishing Ltd
Filled with practical examples, taking a Step-by-Step approach Selenium By Example - Volume III: Selenium WebDriver will not only give the reader an overview and introduction to Selenium WebDriver, it will also give the reader an overview of best practices in Automated Testing, Automation Frameworks, and advice on introducing Automated Testing. Selenium By Example - Volume III: Selenium WebDriver takes a step-by-step approach to teaching the reader how to effectively use Selenium WebDriver.

Selenium Webdriver 3 Practical Guide - Second Edition Createspace Independent Publishing Platform
Get started with functional testing of both web apps and Windows apps using different test frameworks. This book will take you on a deep dive into integrating functional automation testing with deployment pipelines. Hands-On Functional Test Automation contains step-by-step lessons that will give you an understanding of how to do functional test automation using Selenium with C# and Python. Also, you will learn how to enhance your test automation development with third-party frameworks. You will configure test clients, run functional tests through Azure DevOps release management, and carry out performance and load-testing to gain a good understanding of how to do cloud-based load testing. Each lesson comprises an introduction to the related concepts to help you understand how things work. This will broaden your knowledge so you can implement test automation in the correct way. At the end of each lesson alternative options and other enhancement possibilities are discussed to allow you to do further exploration. You will: · Implement functional test automation of Windows and web applications · Use Visual Studio for load and performance testing · Configure and run cloud-based load testing · Integrate testing with deployment pipelines

Selenium Fundamentals Test Automation Using Selenium with Java
Real-world examples of cross-browser, mobile, and data-driven testing with all the latest features of Selenium WebDriver 3 Key Features Unlock the full potential of Selenium to test your web applications Use Selenium Grid for faster, parallel running, and cross-browser testing Test iOS and Android Apps with Appium Book Description Selenium WebDriver is an open source automation tool implemented through a browser-specific driver, which sends commands to a browser and retrieves results. The latest version of Selenium 3 brings with it a lot of new features that change the way you use and setup Selenium WebDriver. This book covers all those features along with the source code, including a demo website that allows you to work with an HMTL5 application and other examples throughout the book. Selenium WebDriver 3 Practical Guide will walk you through the various APIs of Selenium WebDriver, which are used in automation tests, followed by a discussion of the various WebDriver implementations available. You will learn to strategize and handle rich web UI using advanced WebDriver API along with real-time challenges faced in WebDriver and solutions to handle them. You will discover different types and domains of testing such as cross-browser testing, load

testing, and mobile testing with Selenium. Finally, you will also be introduced to data-driven testing using TestNG to create your own automation framework. By the end of this book, you will be able to select any web application and automate it the way you want. What you will learn Understand what Selenium 3 is and how is has been improved than its predecessor Use different mobile and desktop browser platforms with Selenium 3 Perform advanced actions, such as drag-and-drop and action builders on web page Learn to use Java 8 API and Selenium 3 together Explore remote WebDriver and discover how to use it Perform cross browser and distributed testing with Selenium Grid Use Actions API for performing various keyboard and mouse actions Who this book is for Selenium WebDriver 3 Practical Guide is for software quality assurance/testing professionals, software project managers, or software developers interested in using Selenium for testing their applications. Prior programming experience in Java is necessary.

Test Automation Using Selenium Webdriver 3.0 with C# Educreation Publishing

Learn to write automation test scripts using Selenium Web driver version 3.x and 2.x in java programming, java script, C#, python and run in Cucumber BDD feature files. Conduct experiment to write protractor-based Cucumber BDD framework in java script. Build TDD frameworks with the help of Testing, Visual Studio, Jenkins, Excel VBA, Selenium, HP UFT (formerly QTP), Ranorex, RFT and other wide-ranged QA testing tools. Design first Appium scripts after setting up the framework for mobile test automation. Build concurrent compatibility tests using Selenium Grid! Repeated interview questions are explained with justifications for Cucumber BDD, Selenium IDE, Selenium web driver and Selenium Grid.

Automated Software Testing Smashwords

One-stop Guide to software testing types, software errors, and planning process Key featuresa- Presents a comprehensive investigation about the software testing approach in terms of techniques, tools and standardsa- Highlights test case development and defect trackinga- In-depth coverage of test reports developmenta- Covers the Selenium testing tool in detaila- Comprehensively covers IEEE/ISO/IEC software testing standardsDescriptionSoftware testing is conducted to assist testers with information to improvise the quality of the product under testing. The book primarily aims to present testing concepts, principles, practices, methods cum approaches used in practice. The book will help the readers to learn and detect faults in software before delivering it to the end user. The book is a judicious mix of software testing concepts, principles, methodologies, and tools to undertake a professional course in software testing. The book will be a useful resource for students, academicians, industry experts, and software architects to learn artefacts of testing. Book discuss the foundation and primary aspects connected to the world of software testing, then it discusses the levels, types and terminologies associated with software testing. In the further chapters it will gives a comprehensive overview of software errors faced in software testing as well as various techniques for error detection, then the test case development and security testing. In the last section of the book discusses the defect tracking, test reports, software automation testing using the Selenium tool and then ISO/IEEE-based software testing standards. What will you learn Taxonomy, principles and concepts connected to software testing. Software errors, defect tracking, and the entire testing process to create quality products. Generate test cases and reports for detecting errors, bugs, and faults. Automation testing using the Selenium testing tool. Software testing standards as per IEEE/ISO/IEC to conduct standard and quality testing. Who this book is forThe readers should have a basic understanding of software engineering concepts, object-oriented programming and basic programming fundamentals. Table of contents1. Introduction to Software Testing2. Software Testing Levels, Types, Terms, and Definitions3. Software Errors4. Test Planning Process (According to IEEE standard 829)5. Test Case Development6. Defect Tracking7. Types of Test Reports8. Software Test Automation9. Understanding the Software Testing Standards About the authorDr Anand Nayyar received PhD (Computer Science) in the field of Wireless Sensor Networks. He is currently working in Graduate School, Duy Tan University, Da Nang, Vietnam. A certified professional with 75+ professional certificates from CISCO, Microsoft, Oracle, Google, Beingcert, EXIN, GAQM, Cyberoam, and many more. He has published more than 250 research papers in various National and International Conferences, International Journals (Scopus/SCI/SCIE/SSCI Indexed). He is a member of more than 50+ associations as a senior and life member and also acts as an ACM Distinguished Speaker. He is currently working in the area of Wireless Sensor Networks, MANETS, Swarm Intelligence, Cloud Computing, Internet of Things, Blockchain, Machine Learning, Deep Learning, Cyber Security, Network Simulation, and Wireless Communications. His Blog links: http://www.anandnayyar.comHis LinkedIn Profile: https://in.linkedin.com/in/anandnayyar

Selenium Framework Design in Keyword-Driven Testing CreateSpace

Test Automation using Selenium with Java - This book teaches how to automate using Selenium.

Learning Selenium Testing Tools with Python Packt Publishing Ltd

With the urgent demand for rapid turnaround on new software releases--without compromising quality--the testing element of software development must keep pace, requiring a major shift from slow, labor-intensive testing methods to a faster and more thorough automated testing approach. Automated Software Testing is a comprehensive, step-by-step guide to the most effective tools, techniques, and methods for automated testing. Using numerous case studies of successful industry implementations, this book presents everything you need to know to successfully incorporate automated testing into the development process. In particular, this book focuses on the Automated Test Life Cycle Methodology (ATLM), a structured process for designing and executing testing that parallels the Rapid Application Development methodology commonly used today. Automated Software Testing is designed to lead you through each step of this structured program, from the initial decision to implement automated software testing through test planning, execution, and reporting. Included are test automation and test management guidance for: Acquiring management support Test tool evaluation and selection The automated testing introduction process Test effort and test team sizing Test team composition, recruiting, and management Test planning and preparation Test procedure development guidelines Automation reuse analysis and reuse library Best practices for test automation

Selenium WebDriver 3 Practical Guide Lulu.com

Learn How To Perform Test Automation Using Selenium WebDriver A Powerful Guide That Will Help You Automate Any Application Note: Book available on your tablet, phone, PDF, PC, Mac, and paperback (Black/White & Color). You will find details of downloading the PDF document inside the book. 3 Tips To Master Selenium Within 30 Days Copy and paste this URL http: //tinyurl.com/3-Tips-For-Selenium into your browser to receive your tips A New Automation Engineer Should Not Pass Up

This Book ! If you were interested in a book, what would you look for in that book? Would you look for a book that offers valuable information? How about a book that provides multiple ways to carry out a task? What about a book that is easy to understand? You Will Like Part 1 - Selenium WebDriver for Functional Automation Testing Because The Concepts Are Explained In A Step-By-Step Manner Target Audience Absolute Beginner Don't Miss Out! You Need To Read This Book So You Can Learn: ✓ Java / Object - Oriented Programming (OOP) ✓ Why JUnit Is NOT Preferred Over TestNG Unit Test Framework ✓ How To Implement WebDriver Object and Its Methods ✓ How To Find WebElements via HTML ✓ How To Perform Actions On The WebElements ✓ Last But Not Least , View Practical Automation Test Scripts Executed On Several Popular Web Sites Scroll Up and Order Your Copy

Selenium Framework Design in Data-Driven Testing BPB Publications

An easy-to-understand guide that will get you acquainted with the core concepts of Selenium WebDriver KEY FEATURESÊÊ - Learn how to build a Keyword Driven Automation Framework with Selenium using Java - Understand and work with the core concepts of Selenium WebDriver 3.0 - Find how to use Build triggers in Jenkins to automate testsÊ DESCRIPTIONÊÊ The book starts by introducing the Selenium WebDriver 3 and Selenium Server by covering each aspect of it in detail. You will learn different concepts like instances and how instances relate to browser sessions. You will further explore the new features in Java 8 with the help of easy to follow examples. Moving on, you will create a Singleton class for fetching WebDriver instances and then explore the different kinds of waits in Selenium. You will then delve into the advanced WebDriver interactions using the Actions class and the JavascriptExecutor. You will then understand the various database operations which will help you with using the MySQL database to store our framework. Next, you will go through the TestNG framework, followed by parallel execution. Further, you will use Maven as a build tool and Jenkins as a build automation tool. You will go through the working of Selenium Grid along with Mobile automation. Lastly, you will be taken through Selenium 4 and it's AI integrated features. WHAT WILL YOU LEARNÊ - Learn the process of building a Selenium FrameworkÊ - Understand the Keyword Driven Framework conceptÊ - Work with Document Object Model to access page elements - Integrate Maven and Jenkins with Selenium WebDriver - Use Selenium Grid to run multiple tests acrossÊ WHO THIS BOOK IS FORÊÊ This book has been designed for Automation developers who would like to build a Keyword Driven framework that fetches keywords from Database. It is also intended for audiences who are interested in understanding Selenium and designing a framework TABLE OF CONTENTS 1. First look at Selenium WebDriver and Web ElementsÊ 2. Looking at the various WebDrivers 3. A brief look at Java 8 4. Deep dive into Selenium WebDriver 5. Actions class and the JavascriptExecutor 6. WebDriver Events 7. Database Operations 8. Introduction to TestNG framework 9. Parallel Execution 10. Understanding Maven 11. Jenkins Introduction and Scheduling 12. Selenium grid and executing in the cloud 13. Mobile test automation using Appium 14. A look at Selenium-4

Absolute Beginner (Part 1) Selenium Webdriver for Functional Automation Testing

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A beginner's guide to using Selenium with C# for automated web testing KEY FEATURES ● Explore different ways to handle web elements using Selenium and C#. ● Learn how to manage data using popular file types such as Excel and CSV. ● Learn how to integrate NUnit with Selenium to create a powerful testing framework. DESCRIPTION Selenium, a web browser automation tool that has been around for a long time, is extensively utilized by developers and testers to generate automated tests for verifying the proper functioning of web applications. When combined with C#, Selenium can produce automated tests that are both robust and efficient. This book is a comprehensive guide to learning Selenium, one of the most popular web automation tools in the industry. It starts with an introduction to Selenium and its three projects - Selenium IDE, Selenium WebDriver, and Selenium Grid. It then provides a comprehensive overview of the various entities in the Selenium C# client libraries, such as the WebDriver, WebElement, and By classes. The subsequent sections of the book elucidate how to handle different HTML elements, including forms, tables, dropdowns, windows, alerts, and frames. The book also explores the Option class, which is utilized for managing web browsers. In addition, the book emphasizes the significance of unit testing in test automation and explains how to implement the NUnit framework. To manage object information, the book delves into the Page Object model design pattern. Lastly, the book will help you set up and execute tests in parallel across various environments using Selenium Grid. By the end, you will be able to create automated tests for web applications with ease. WHAT YOU WILL LEARN ● Perform Cross-browser testing using Selenium WebDriver. ● Implement Synchronization using Implicit and Explicit wait. ● Learn how to handle the Action class in Selenium. ● Learn how to implement the Page Object Model using PageFactory. ● Setup and use Selenium Grid to execute tests in parallel. WHO THIS BOOK IS FOR This book is for Test automation engineers, software testers, and software developers who are interested in learning about test automation using Selenium and C#. TABLE OF CONTENTS 1. Introduction to the Selenium Project 2. Web Applications Used in the Book 3. Browser Automation and More Using WebDriver 4. Handling Web Elements 5. Locate HTML Elements Using the By Class 6. Synchronization with Selenium 7. Working with HTML Elements - Part 1 8. Working with HTML Elements - Part 2 9. Working with HTML Elements - Part 3 10. Actions, Options, and Capturing Screenshots 11. Unit Testing with NUnit 12. Learn How to Manage Objects Using a Page Object Model 13. Handling Test Data 14. Selenium Grid