

Driver Initialization

Firefox (Below v.47)^{Refer Part2-Page58} System.setProperty("webdriver.gecko.driver", "PathTo\\geckodriver.exe");

Download from <https://github.com/mozilla/geckodriver/releases>
WebDriver driver = new FirefoxDriver();

Chrome^{Refer Part2-Page59} System.setProperty("Webdriver.chrome.driver",
System.getProperty("user.dir")+"//Browse
rDrivers//chromedriver.exe");

Download from <https://sites.google.com/a/chromium.org/chromedriver/download>
WebDriver driver = new ChromeDriver();

Internet Explorer^{Refer Part2-Page59} System.setProperty("Webdriver.ie.driver",
"PathTo//IEDriverServer.exe");

Download from The Internet Explorer Driver Server at <http://docs.seleniumhq.org/download/>
WebDriver driver = new InternetExplorerDriver();

Selenium Locators

Locating by ID^{Refer Part2-Page37} driver.findElement(By.id("q")).sendKeys("Selenium 3");

Locating by Name^{Refer Part2-Page37} driver.findElement(By.name("q")).sendKeys("Selenium 3");

Locating by Xpath^{Refer Part2-Page37/38} driver.findElement(By.xpath("//input[@id='q']")).sendKeys("Selenium 3");

Locating Hyperlinks by Link Text ^{Refer Part2-Page38/39} driver.FindElement(By.LinkText("edit this page")).Click();

Selenium Locators (cont)

Locating by DOM^{Refer Part2-Page39} dom
=document.getElementById('signInForm')

Locating by CSS^{Refer Part2-Page40-43} driver.FindElement(By.CssSelector("#rightbar > .menu > li:nth-of-type(2) > h4"));

Locating by ClassName^{Refer Part2-Page37} driver.findElement(By.className("profile-header"));

Locating by TagName^{Refer Part2-Page37} driver.findElement(By.tagName("select")).Click();

Locating by LinkText^{Refer Part2-Page37-40} driver.findElement(By.linkText("NextPage")).click();

Locating by PartialLinkText^{Refer Part2-Page37-40} driver.findElement(By.partialLinkText("NextPage")).click();

Selenium Exceptions

'Server Exception : sessionId should not be null'^{Refer Part2-Page160} Replace Chrome Driver with Latest Version

ERROR: No sessionId provided^{Refer Part2-Page160} Use Jenkins

UnreachableBrowserException ^{Refer Part2-Page160} Registry Key Changes Recommended

Illegal state exception using Selenium 3^{Refer Part2-Page161} Get latest Firefox Gecko Driver

Selenium



Annotations

TestNG @BeforeSuite @AfterSuite @BeforeTest @AfterTest
@BeforeGroups @AfterGroups @BeforeClass @AfterClass
@BeforeMethod @AfterMethod

JUnit @After @AfterClass @Before @BeforeClass @Ignore @Test

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Practice Scripts

Launch driver.get("www.raghava.uk");

Webpage^{Refer}
Part2-Page60

Click driver.findElement(By.id("submit")).click();

Button^{Refer}
Part2-Page60

Store Text^{Refer}
Part2-Page60 String txtDropdown =
driver.findElement(By.ID("select")).getText();

Enter Text^{Refer}
Part2-Page61 driver.findElement(By.xpath("//input[@name='FirstName034']")).sendKeys("NarayananPalani");

Handle Alert^{Refer}
Part2-Page62 Alert Alertpopup = driver.switchTo().alert();

(Mouse)Click^{Ref}
er Part2-Page62 driver.findElement(By.xpath("//input[@value='OBJECTNAME']")).click();

Compare
Text^{Refer}
Part2-Page64 Assert.assertTrue(chkbox12.isSelected());

Practice Scripts (cont)

Disable a driver.getElementsByName('<ObjectID>')
Field^{Refer} [0].setAttribute('disabled', "");
Part2-Page64

Enable a driver.getElementsByName('<ObjectID>')
Field^{Refer} [0].removeAttribute('disabled';
Part2-Page64

Screenshot^{Ref} File snapshot =
er Part2-Page64 ((TakesScreenshot)driver).getScreenshotAs(OutputType
.FILE);

FileUtils.copyFile(snapshot, new
File("C:\\screenshot.jpg"));

Print the Title String pagetitle = driver.getTitle();
of the
Page^{Refer}
Part2-Page68

System.out.print(pagetitle);

Implicit driver.manage().timeouts().implicitlyWait(10,
Wait^{Refer} TimeUnit.SECONDS);
Part2-Page69

Explicit WebDriverWait wait = new WebDriverWait(driver, 20);
Wait^{Refer}
Part2-Page70

wait.until(ExpectedConditions.textToBePresentInElement
Located(By.xpath("//div[@id='<Object ID>']"), "Enter
Your Personal Details"));

Fluent Wait wait = new FluentWait(driver)
Wait^{Refer}
Part2-Page70

.withTimeout(20, SECONDS)

Sleep^{Refer} Thread.Sleep(10);
Part2-Page70



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Published 15th November, 2016.
Last updated 15th November, 2016.
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Selenium Automation Framework using Java

Java	Refer Part1-Page74	http://www.oracle.com/technetwork/java/javase/downloads/index.html
Java Configuration	Refer Part1-Page75	JAVA_HOME,PATH
Eclipse IDE	Refer Part1-Page79	http://eclipse.org/downloads/
Excel Data Driven Capability	Refer Part1-Page88	http://archive.apache.org/dist/poi/release/bin/
Logging Capability-Log4J	Refer Part1-Page90	http://logging.apache.org/log4j/1.2/download.html
Selenium	Refer Part1-Page92	http://docs.seleniumhq.org/download/
HTML/Email Reporting-XSLT Report	Refer Part1-Page93	http://mvnrepository.com/artifact/net.sf.saxon/saxon/8.7
Ant Build Capability	Refer Part1-Page93	http://ant.apache.org/antlibs/bindownload.cgi
Maven	Refer Part1-Page126	http://download.eclipse.org/technology/m2e/releases
TestNG-Test Execution Capability	Refer Part1-Page102	http://beust.com/eclipse
Cucumber	Refer Part1-Page204	https://cucumber.io/cucumber-eclipse/update-site

Cheat Sheet Book Reference

Software Automation Testing Secrets Revealed	https://www.amazon.com/Software-Automation-Testing-Secrets-Revealed/dp/9383952954/
Selenium WebDriver: Software Automation Testing Secrets Revealed Part 2	https://www.educreation.in/store/selenium-webdriver-software-automation-testing-secrets-revealed-part2-narayanan-palani.html

Software Automation Testing Secrets Revealed

Software Automation Testing Secrets Revealed

Narayanan Palani

Very First Book on Machine Learning Technology Using Selenium Automation Testing Reviewed by 34+ IT Industry Experts Examples and Industry Best Practices are Provided

Author is an experienced 4.5 rated Corporate Trainer in Test Automation

★★★★★

Part 1:

Automate Software Applications using Selenium Web Driver using Java, Selenium Web Driver using Dot Net, Selenium IDE, AutoIT, cucumber, Specflow, BDD, TDD, Jenkins, NUnit, ReportUnit, XSLT Reporting, Maven, James Phantom Ghost Driver, TestNG, JUnit, Ant, Eclipse, Team Foundation Server, Visual Studio, HP Unified Functional Testing (formerly Quick Test Professional), Ranorex, IBM Rational Functional Tester, Excel VBA Automation, Excel Objects Automation, SOA Testing-SOAP UI Automation, ETL Testing and SQL Testing for Agile-Continuous Integration with:
Sample Projects to download and practice on specific chapters!

SeleniumWebDriver

[illegible]