Cheat Sheet for Selenium WebDriver with Java, TestNG and Maven		
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Selenium Components		
Selenium Integrated Development Environment (IDE)	Firefox add-on that you can only use in creating	
,	relatively simple test cases and test suites	
Selenium Remote Control (RC)	First Selenium tool that allowed users to use	
Solicing the solicing of the solicing the so	programming languages in creating complex tests	
Selenium WebDriver	Newer breakthrough that allows your test scripts to	
Scientian Webbilder	communicate directly to the browser, thereby	
	controlling it from the OS level	
Colonium Crid		
Selenium Grid	To run parallel tests across different machines and	
	different browsers all at the same time. Parallel	
Dulina de la libraria de	execution means running multiple tests at once.	
Driver Initilization Web Driver driver = new Chromo Driver():		
WebDriver driver = new ChromeDriver();		
WebDriver driver = new FirefoxDriver();		
WebDriver driver = new InternetExplorerDriver(); WebDriver driver = new EdgeDriver();		
WebDriver driver = new EdgeDriver(); WebDriver driver = new SafariDriver();		
The state of the s		
WebDriver driver = new HtmlUnitDriver();		
Advanced Browser Cnfiguration ChromeOptions chromeOptions = new ChromeOptions();		
chromeOptions.addArguments("ignore-certificate-errors");		
chromeOptions.addArguments(ignore-certificate-errors); chromeOptions.addArguments("user-data-dir=Path");		
chromeOptions.addArguments("headless");		
chromeOptions.addArguments("start-maximized", "incog	nito" " disable notifications"):	
driver = new ChromeDriver(chromeOptions);	ilito ,disable-flotifications),	
Desired Capabilities		
Desired Capabilities DesiredCapabilities dc = new DesiredCapabilities();		
dc.setCapability("browserName", "chrome");		
dc.setCapability("browserVersion", "96.0"");		
dc.setCapability("platformName", "win10");		
WebDriver driver = new ChromeDriver(dc);		
Element Locators		
driver.findElement(By.id("Id Value"));		
driver.findElement(By.name("Name Value"));		
driver.findElement(By.className("Class Name Value"));		
driver.findElement(By.linkText("Link text Value"));		
driver.findElement(By.partialLinkText("Partial Text Constant	Value")):	
driver.findElement(By.tagName("Tag Name Value"));	Value	
driver.findElement(By.cssSelector("CSS Value"));		
driver.findElement(By.xpath("Xpath Value"));		
driver.findElement(with(By.tagName("input")) .above(passw	ordField));	
driver.findElement(with(By.tagName("input")) .below(emailAddressField));		
driver.findElement(with(By.tagName("button")) .toLeftOf(submitButton));		
driver.findElement(with(By.tagName("button")).toRightOf(su		
driver.findElement(with(By.tagName("input")).near(emailAddressLabel));		
driver.findElement(new ByAll(By.className("ElementClass N		
Elements Operations		
WebElement element = driver.FindElement(By.ElementLocat	or("Value of Element Locator"));	

element.click();
element.sendKeys("Input Text");
element.clear();
element.submit();
element.getAttribute("type");
String innerText = element.getText();
boolean enabledstatus = element.isEnabled();
boolean displayedstatus = element.isDisplayed();
boolean selectedstatus = element.isSelected();
Operation on drop down
Select select = new Select(element);
select.selectByIndex(Integer Index);
select.selectByVisibleText("Text");
select.SelectByValue("Value");
select.deselectAll();
select.deselectByIndex(Integer Index);
select.deselectByVisibleText("Text");
select.deselectByValue("Value");
WebElement selectedOptions = select.getOptions();
Browser Operations
String pageTitle = driver.getTitle();
String currentURL = getCurrentUrl();
String currentPageSource = driver.getPageSource();
Navigation history
driver.get("https://www.facebook.com/");
driver.manage().window().maximize();
driver.manage().window().fullscreen();
driver.navigate().to("https://www.google.com/");
driver.navigate().back();
driver.navigate().forward();
driver.navigate().refresh();
driver.close();
driver.quit();
Handle Alert
Alert alert = driver.switchTo().alert();
alert.accept();
alert.dismiss();
alert.getText();
alert.sendKeys("Input Data");
Handle Cookies
Cookie cookie = new Cookie("cookieName", "cookieValue");
driver.manage().addCookie(cookie);
driver.manage().getCookies();
driver.manage().getCookieNamed(arg0);
driver.manage().deleteAllCookies();
driver.manage().deleteCookieNamed(arg0);
Handle frames
driver.switchTo().frame(int Frame Index);
driver.switchTo().frame("frameName");

WebLiement element = driver.ind.Liement(By.LiementLocator("Value of Element Locator")); driver.switchTo().defaultContent(); Screenshots Capture TakesScreenshot screenshot =((TakesScreenshotA)OutputType.FILE); File scriel= screenshot.getScreenshotA()OutputType.FILE); File scriel= screenshot.getScreenshotA()OutputType.FILE); File scriel= screenshot.getScreenshotA()OutputType.FILE); File scriel= screenshot.getScreenshotA()OutputType.FILE); Filestlandler.cop(scriel, destFile); Actions Class/Mouse Event Actions action = new Actions(driver); action.keyDown(Keys.CONTROL); action.keyDown(Keys.CONTROL); action.keyUp(Keys.CONTROL); action.outputCollement(build().perform(); action.outputCollement(build().perform(); action.outputCollement(build().perform(); action.moveByOffset()Offset,yOffset).build().perform(); action.moveByOffset(pOffset,yOffset).build().perform(); action.relaxeByOffset(pOffset,yOffset).build().perform(); action.relaxeByOffset(poffset,yOffset(poffset,yOffset,yOffset(poffset,yOffset,yOffset,yOffset(poffset,yOffset,yOffset,yOffset(poffset,yOffset,yOffset,yOffset,yOffset,yOffset,yOffset,yOffset,yOffset,yOffset,yOffset,yOffset,yOffset,yOffset,yOffset,yOffset,yOffset,yOffset,yOffset,yOffset,yOffset,yOffset,yOffs		(1)		
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Important Maven Commands				
	Important Maven Commands			

mvn -version	To check the vesion of the Maven already installed user	
and the second s	system	
mvn clean	To clean the maven project by deleting the target	
	directory	
mvn complie	To compile the source Java classes of the project	
mvn test	To run the test cases of the project using the maven-	
	surefire-plugin	
mvn package	To build the maven project and packages them into a	
	JAR, WAR, etc	
mvn help	Command to print the maven usage and all the	
	available options for user to use	
TestNG Annotations	TestNG Assertions	
@Test	SoftAssert softassert= new SoftAssert();	
@BeforeMethod	softassert.assertEquals(1, 1);	
@AfterMethod	softassert.assertAll();	
@BeforeTest	Assert.assertEquals(11, 11);	
@AfterTest	Assert.assertEquals(true, true, "Not Matching");	
@BeforeClass		
@AfterClass		
@Test(enabled = false)		
@Test(enabled = true)		
@Test(priority=2)		
@Test(priority=5,dependsOnMethods={"method1","method		
2"})		
@Test(dependsOnMethods = {"method1"}, alwaysRun=true)		
@Test(groups = { "Group1", "Group2" })		
@Parameters({"testparameter1", "testparameter2"})		
@Listeners(packagename.ListenerClassName.class)		
@Test (dataProvider = "getUserIDandPassword")		
@Test (description = "Open Facebook Login Page",		
timeOut=35000)		
@Test (invocationCount = 3, invocationTimeOut = 20000)		
@Test (invocationCount = 3, skipFailedInvocations = true)		
@Test (invocationCount = 3)		
@Test (invocationCount = 7, threadPoolSize = 2)		
TestNG XML File		
<suite name="TestNGSuite" parallel="methods" td="" thread-<=""><td></td></suite>		
count="4">		
steners>		
<pre></pre>		
<pre><parameter name="Data1" value="10"></parameter></pre>		
<pre><parameter name="Data2" value="3"></parameter></pre>		
<test name="TestNGTest"></test>		
<groups></groups>		
<run></run>		
<exclude name="Test.*"></exclude>		

		<u> </u>
<include name="SmokeTest"></include>		
<classes></classes>		
<class name="packagename.classname"></class>		
TestNGTest		
TestNGSuite		
Different approach to create XPath and CSS Selector		
Description	XPath	CSS Selector
Whole WebPage	/html	html
Whole WebPage body	/html/body	body
image element	//img	img
Link	//a[@href = 'url']	a[href = 'url']
Direct Child	//div/a	div > a
Id	//tagName[@id='idValue']	tagName#idValue
Class	//tagName[@class='classValu	tagName.Value of Class
	e']	attribute
Attribute	//tagname[@attribute-	tagName[attribute=Valu
	name='value1']	e of attribute]
Multiple Attributes	//input[@type='submit' and	tagname[attribute1='val
Twittiple /teribates	@name='btnLogin']	ue1'][attribute2='value2'
	Gridine - Stileogin j	1
Contains	//*[contains(@type,'sub')]	<html< td=""></html<>
Contains	// [contains(@type, sub /]	tag><[attribute*=sub
		String]>
Starts with	//tagname[starts-	<html< td=""></html<>
Starts with	with(@attribute, 'Start	tag><[attribute^=prefix
Ends with	value')] //tagname[ends-	of the String]> <html< td=""></html<>
Ends with		
	with(@attribute, 'End value')]	
Matabas	//*[matches(@type,'value')]	of the String]> N/A
Matches	// ·[matches(@type, value)]	IN/A
First Child	//ul[@id='list']/li[1]	ul#list li:first-child
Last Child	//ul[@id='list']/li[last()]	ul#list li:last-child
nth Child	//ul[@id='list']/li[3]	ul#list li:nth-child(3)
		` '
Text Value	//td[text()='textname'] //E2/preceding-sibling::E1	N/A N/A
Element preceding some sibling Sibling element immediately preceding	//E/preceding-sibling::*[1]	N/A
User interface element that is disabled		E:disabled
	//E[@disabled]	
Checkbox (or radio button) that is checked	//*[@checked]	*:checked
Text Value	//td[text()='textname']	N/A
Important Tagname and their Description	Specification	
Tag Name 	Defines an unordered list of	
ctr	Defines a row of cells in a	
	table.	

<title></th><th>Represents title to an HTML</th></tr><tr><td>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</td><td></td></tr><tr><td></td><td>document.</td></tr><tr><td rowspan=2>></td><td>Used for creates header of a</td></tr><tr><td>group of cell in HTML table.</td></tr><tr><td></td><td>Used to defines a table in an</td></tr><tr><td></td><td>HTML document.</td></tr><tr><td></td><td>Used for grouping table rows.</td></tr><tr><td></td><td>Used for creates standard</td></tr><tr><td></td><td>data cell in HTML table.</td></tr><tr><td></td><td>Used to grouping and</td></tr><tr><td></td><td>applying styles to inline</td></tr><tr><td></td><td>elements.</td></tr><tr><td><section></td><td>Used to divide a document</td></tr><tr><td></td><td>into number of different</td></tr><tr><td></td><td>generic section.</td></tr><tr><td><select></td><td>Used to create a drop-down</td></tr><tr><td></td><td>list.</td></tr><tr><td><menu></td><td>Used to display a unordered</td></tr><tr><td></td><td>list of items/menu of</td></tr><tr><td></td><td>commands.</td></tr><tr><td><</td><td>Define a list item either</td></tr><tr><td></td><td>ordered list or unordered list.</td></tr><tr><td></td><td>ordered list of differed list.</td></tr><tr><td><iframe></td><td>Defines a inline frame that</td></tr><tr><td></td><td>embedded external content</td></tr><tr><td></td><td>into current web document.</td></tr><tr><td></td><td>Used to insert image into a</td></tr><tr><td></td><td>web document.</td></tr><tr><td><input></td><td>Define a get information in</td></tr><tr><td></td><td>selected input</td></tr><tr><td><div></td><td>Define a division part</td></tr><tr><td><body></td><td>Defines a main section(body)</td></tr><tr><td></td><td>part in HTML document</td></tr><tr><td>
</td><td>Specific a single line break</td></tr><tr><td><button></td><td>Specifies a press/push button</td></tr><tr><td></td><td></td></tr><tr><td><a></td><td>Specific a anchor (Hyperlink)</td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></tbody></table></title>
