# SELENTUM Cheat Sheet

# **Creating Driver:**

Action	Selenium code	Description
Firefox driver	WebDriver Driver = new FirefoxDriver ();	Driver is an object
IE driver	System.setProperty("webdriver.ie. driver", PATH);	PATH = path of IEDriver exe file;
	WebDriver driver = <b>new</b> InternetExplorerDriver ();	
chrome Driver	System.setProperty("webdriver.ie. driver",PATH);	PATH = path of chrome exe file;
	WebDriver driver = <b>new</b> ChromeDriver ();	

# **Identify Elements:**

Action	Code	Description
Find single Element	driver.findElement(locator)	Locator is a location of element
Find multiple Elements	driver.findElements(locator)	Locator is a location of element

### **Locating UI Elements:**

Action	Code	Description	
By ID	driver. findElement (By.id(str));	Str is id of element	
By Name	driver.findElement(By.name(str));	Str is name of element	
By class name	driver. findElement (By. className(str));	Str is class value of element	
By CSS selector	driver.findElement(By.cssSelector(str));	Str is cssSelector of element	
By link text	driver.findElement(By.linkText(str));	Str is link text of element	
By partial link text	driver.findElement(By.partialLinkText(str));	Str is partial text of element	
By tag name	driver.findElement(By.tagName(str));	Str is tag name of element	
By XPath	driver.findElement(By.xpath(xpath));	Str is xpath of element	

### **Handling Java Script Alerts:**

To handle alert first we need to switch to alert.

Alert al=driver.switchTo().alert();

The Actions list.

Action	code
Click on ok in alert	al.accept();
Click on cancel.	al.dismiss()
Type in alert box.	al.sendKeys("text");
Get text from alert box.	al.getText();

### **Capture Screen Shot of Browser:**

Action	Code	Description
Capture screen	File scrFile1 =	It captures screen shot
	((TakesScreenshot) driver).getScreenshotAs(OutputType.FIL	of particular page and
	<i>E</i> );	stores it in variable
Save to disk	<pre>FileUtils.copyFile(scrFile1, new File("c:\\tmp\\k2.png"));</pre>	Save screen shot as
		k2.png

#### **User Actions:**

Action	Code	Description
Write in text fields	driver.findElement(locator).sendKeys(text);	Text: what u want to write
		locator is a location element
Click button or click radio	driver. findElement(locator). click();	locator is a location element
button or check box		
Clear text in text field	driver. findElement(locator). clear();	locator is a location element
Navigate back and forward	<pre>driver.navigate(). back();</pre>	
in browser	<pre>driver.navigate().forward();</pre>	
Navigate to frame	driver. switchTo().frame(frame);	frame can be integer value represents position of frame or string represents id of frame or WebElement represents frame of frame.
Navigate to next window or pop up window	<pre>driver.switchTo().window(hashCode);</pre>	hashCode is hash code of window
Get inner text of element or inner text of table	<pre>driver.findElement(locator).getText();</pre>	locator is a location element
Working on auto complete/suggestions Or Calendar pop up	driver. findElement(locator). click();	Get the locator of hidden division or element and perform required operation.

### select drop down list:

Using Select class we can work on select drop down. Create select object for specific select drop down.

//creating webelement for select dropdown

WebElement usrs=driver.findElement(By.name("users"));

Select usr=new Select(usrs);

We can select options of drop down in 3 different ways as explained below:

Action	code	description
Select by using id of option tag	usr.selectById(ID);	ID is string, value of id attribute of
		option.
Select by using index of option tag	usr.selectByIndex(i);	i is the position of option
Select by using visible text in option	usr.selectByVisibleText(str)	str is the text inside option tag.
tag		

# Working on excel sheet:

Before working on excel first we need to read excel in input stream using file io stream.

## FileInputStream fis=new FileInputStream("Path of .xlsx file");

Action	Code	Description
Convert file io into	Workbook wb = WorkbookFactory.create(fis);	Create function creates work
workbook		book.
Get into specified	<pre>Sheet s = wb.getSheet(sheetName);</pre>	sheetName is name of the
sheet	Or	sheet
	Sheet s = wb.getSheetAt(sheetNum);	sheetNum is index of sheet
Get into specified	Row r = s.getRow(rowNum);	
row		
Get into specified	Cell c = r.getCell(colNum);	
column		
Get cell value	String cellVal = c.getStringCellValue();	Get cell value based on value in
	Or	excel cell
	boolean b = c.getBooleanCellValue();	
	or	
	Date d = c.getDateCellValue();	
	Or	
	int I = c.getNumericCellValue();	
Get row count	<pre>int I = s.getLastRowNum();</pre>	
Get Column count	<pre>int j = r. getLastCellNum ();</pre>	
Write back to excel	<pre>c.setCellValue("PASS1");</pre>	
	FileOutputStream fos = <b>new</b>	
	FileOutputStream("Path of .xlsx file ");	
	wb.write(fos);	
	fos.close();	

## **Drag, Drop and Mouse Over, Mouse Events:**

We use Actions Class for drag and drop Create an object to action class Actions a=new Actions(driver);

Action	code	description
Drag and Drop	<pre>a.dragAndDrop(src, des).build().perform();</pre>	Src and dest is the
using source and		WebElement object of
destination		source and destination
		of drag and drop
		element.
Drag and drop to	a.dragAndDrop(src, x,y).build().perform();	x and y are integer
specific position		values for specific
		position.
Mouse over on	<pre>a.moveToElement(element).build().perform();</pre>	Element is an object of
specific element.		WebElement which
		points to required
		element.
Mouse right click	<pre>a.contextClick(element).build().perform();</pre>	Element is an object of
		WebElement which
		points to required
		element.
Mouse	<pre>a.sendKeys(Keys.<keyboardstrokes>).build().perform();</keyboardstrokes></pre>	Keys is a class contains
movement after		all key strokes such as
right click		right left, enter, back
		button.