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Driver Instantiation

Firefox Browser

WebDriver driver = new FirefoxDriver();

Google Chrome Browser

WebDriver driver = new ChromeDriver();

Safari Web Browser

WebDriver driver = new SafariDriver();

Internet Explorer Browser

WebDriver driver = new InternetExplorerDriver();

Android Driver

WebDriver driver = new AndroidDriver();

iPhone Driver

WebDriver driver = new IPhoneDriver();

HTML Unit Driver

WebDriver driver = new HtmlUnitDriver();

setProperty()

Google Chrome Browser

System.setProperty("webdriver.chrome.driver",

"<path to executable file>");

Firefox Browser

System.setProperty("webdriver.gecko.driver",

"<path to executable file>");

Internet Explorer Browser

System.setProperty("webdriver.ie.driver",

"<path to executable file>");

navigate()

Navigate to specific URL

driver.navigate().to("<url>");

Navigate to Next Page in Browser History

driver.navigate().forward();

Navigate to Next Page in Browser History

driver.navigate().back();



Selenium Locators

Locating By Id

driver.findElement(By.id("<element_id>"));

Locating By Name

driver.findElement(By.name("<element_name>"));

Locating By Xpath

driver.findElement(By.xpath("<element_xpath>"));

Locating Hyperlinks by Link Text

driver.findElement(By.LinkText("<link_text>"));

Locating By Dom

dom =document.getElementById('<element_id>')

Locating By CSS

driver.FindElement(By.CssSelector("#<selector>"));

Locating By Class Name

driver.findElement(By.className("<class_name>"));

Locating By Tag Name

driver.findElement(By.tagName("<tags_name>"));

Locating By Link Text

driver.findElement(By.linkText("<link_text>"));

Locating By Partial Link Text

driver.findElement(By.partialLinkText("<text>"));

Test NG Available Annotations

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

Refresh Page

Refresh currently loaded webpage

driver.navigate().refresh();

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Windows Handling

Handle Multiple Windows

String handle=driver.getWindowHandle();

Set<String> handles = getWindowHandles();

driver.switchTo().window(handle);

Switch to Newly Created Window

String curWindow=driver.getWindowHandle()

Get All Window Handles

```
Set<String> handles = getWindowHandles();
for(string handle: handles)
{
     if (!handle.equals(curWindow))
     {
          driver.switchTo().window(handle);
     }
}
```

Handling Frames

Using Frame Index

driver.switchTo().frame(1);

Using Name of Frame

driver.switchTo().frame("name");

Usina Web Element Obiect

driver.switchTo().frame(element);

Cot Pack to Main Document

driver.switchTo().defaultContent();

JUnit Available Annotations

- @After
- @AfterClass
- @Before
- @BeforeClass
- @Ignore
- @Test



Need Help on your journey to Master Selenium Test Automation?

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UI Actions

Launch Web Page

driver.get(<url_of_web_page>);

Click a button on Web Page

WebElement.click();

Handling Alerts

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

Enter Text to Field

WebElement.sendKeys('Text to Enter');

Select A Value from Dropdown

Select drpOptions = new

Select(driver.findElement(By.id("options"))); drpOptions.selectByVisibleText("Option 1");

drpOptions.selectByIndex(1);

Drag & Drop

Actions builder = new Actions(driver);

WebElement from =

driver.findElement(By.id("draggable"));

WebElement to =

driver.findElement(By.id("droppable"));

builder.dragAndDrop(from, to).perform();

Finding Number of Rows in Web Table

List<WebElement> rowsNumber =

driver.findElements(By.xpath("xpath"));

int rowCount = rowsNumber.size();

System.out.println("No of rows in this table : " +

rowCount);

Finding Number of Columns in Web Table

List<WebElement> columnsNumber =

driver.findElements(By.xpath("xpath"));

int columnCount = columnsNumber.size();

System.out.println("No of columns in this table: " + columnCount);

Highlight Elements in Selenium

JavascriptExecutor jsExecutor = (JavascriptExecutor) driver;

jsExecutor.executeScript("arguments[0].style.border ='2px solid red'", WebElement);

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Screenshots

Capturing Screenshot & Saving as File

TakesScreenshot scrShot

=((TakesScreenshot)webdriver);

File SrcFile =

scrShot.getScreenshotAs(OutputType.FILE);

File DestFile=new File(fileWithPath);

FileUtils.copyFile(SrcFile, DestFile);

Waits

Implicit Wait

Explicit Wait

WebDriverWait wait = new WebDriverWait(driver, 20);

Sleep

```
try {
          Thread.sleep(5000);
          }
catch (InterruptedException e) {
                e.printStackTrace();
          }
```

Selenium Grid

Start Hub

java-jar selenium-server- standalone-x.xx.x.jar-role hub

Start Node

java-jar selenium-server- standalone-x.xx.x.jar-role node-hub

Console URI

http://localhost:4444/grid/console



Handling Alerts

Get Alert Tex

driver.switchTo().alert.getText();

Accept the Alert

driver.switchTo().alert.accept();

Dismiss the Alert

driver.switchTo().alert.dismiss();

Enter Text into Alert Prompt

driver.switchTo().alert.sendKeys("Text");



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