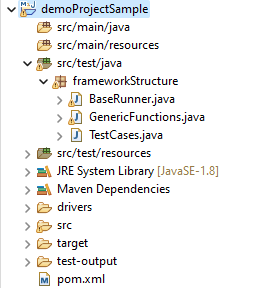
Selenium Training Code

**Sample 1:**



**BaseRunner.java**

**import** java.util.concurrent.TimeUnit;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.WebDriver;

**import** org.testng.annotations.AfterTest;

**import** org.testng.annotations.BeforeTest;

**import** org.testng.annotations.Test;

**import** io.github.bonigarcia.wdm.WebDriverManager;

**public** **class** BaseRunner {

**public** WebDriver driver;

**public** **int** waitTime = 30;

@BeforeTest

**public** **void** lanchBrowser() {

String browserName = "Edge";

**if**(browserName.contains("Chrome")) {

driver = WebDriverManager.*chromedriver*().create();

}**else** **if** (browserName.contains("Firefox")) {

driver = WebDriverManager.*firefoxdriver*().create();

}**else** **if**(browserName.contains("Edge")) {

driver = WebDriverManager.*edgedriver*().create();

}

driver.manage().timeouts().~~implicitlyWait~~(10,TimeUnit.***SECONDS***) ;

driver.get("https://www.google.com/");

}

@AfterTest

**public** **void** closeBrowser() {

driver.close();

System.***out***.println("Close Browser");

driver.quit();

System.***out***.println("Close All Browser Instances");

}

}

**GenericFunctions.java**

**import** java.time.Duration;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.Keys;

**import** org.openqa.selenium.WebElement;

**import** org.openqa.selenium.support.ui.ExpectedConditions;

**import** org.openqa.selenium.support.ui.WebDriverWait;

**public** **class** GenericFunctions **extends** BaseRunner {

// WebDriverWait wait = new WebDriverWait(driver, Duration.ofSeconds(waitTime));

**public** **void** click(WebElement element, String elementName) {

**try** {

// wait.until(ExpectedConditions.visibilityOf(element));

// System.out.println(elementName+" Element is visible");

// wait.until(ExpectedConditions.elementToBeClickable(element));

// System.out.println(elementName+" Element is clickable");

element.click();

System.***out***.println(elementName+" Element is clicked");

}**catch** (Exception e) {

System.***out***.println(elementName+" Element is not clicked, error message "+e.getMessage());

}

}

**public** **void** setText(WebElement element, String enterText, String elementName) {

**try** {

// wait.until(ExpectedConditions.visibilityOf(element));

// System.out.println(elementName+" Element is visible");

// wait.until(ExpectedConditions.elementToBeClickable(element));

// System.out.println(elementName+" Element is clickable");

element.click();

System.***out***.println(elementName+" Element is clicked");

element.sendKeys(enterText);

System.***out***.println(elementName+" Element is entered with "+enterText);

}**catch** (Exception e) {

System.***out***.println(elementName+" Element is not entered error message "+e.getMessage());

}

}

**public** **void** setTextAndEnter(WebElement element, String enterText, String elementName) {

**try** {

setText(element,enterText,elementName);

element.sendKeys(Keys.***RETURN***);

Thread.*sleep*(5000);

}**catch** (Exception e) {

System.***out***.println(elementName+" Element is not entered error message "+e.getMessage());

}

}

}

**TestCases.java**

**import** org.openqa.selenium.By;

**import** org.testng.annotations.Test;

**public** **class** TestCases **extends** BaseRunner{

GenericFunctions genFun = **new** GenericFunctions();

@Test

**public** **void** abc() {

genFun.click(driver.findElement(By.*name*("q")), "Google Search");

genFun.setText(driver.findElement(By.*name*("q")), "Selenium Testing", "Google Search");

}

}

**Sample 2**

**Alerts**: <https://www.guru99.com/alert-popup-handling-selenium.html>

**import** org.openqa.selenium.Alert;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.chrome.ChromeDriver;

**import** org.testng.annotations.Test;

**public** **class** AlertHandling {

@Test

**public** **void** AlertsAccept() **throws** InterruptedException {

System.*setProperty*("webdriver.chrome.driver","./drivers/chromedriver.exe");

WebDriver driver = **new** ChromeDriver();

driver.manage().window().maximize();

// Alert Message handling

driver.get("https://demo.guru99.com/test/delete\_customer.php");

driver.findElement(By.*name*("cusid")).sendKeys("53920");

driver.findElement(By.*name*("submit")).submit();

// Switching to Alert

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

// Capturing alert message.

// Displaying alert message

System.***out***.println("Alert Message: "+alert.getText());

Thread.*sleep*(2000);

// Accepting alert

alert.accept();

driver.close();

}

@Test

**public** **void** AlertDismiss() **throws** InterruptedException {

System.*setProperty*("webdriver.chrome.driver","./drivers/chromedriver.exe");

WebDriver driver = **new** ChromeDriver();

driver.manage().window().maximize();

// Alert Message handling

driver.get("https://demo.guru99.com/test/delete\_customer.php");

driver.findElement(By.*name*("cusid")).sendKeys("53920");

driver.findElement(By.*name*("submit")).submit();

// Switching to Alert

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

// Capturing alert message.

String alertMessage= driver.switchTo().alert().getText();

// Displaying alert message

System.***out***.println(alertMessage);

Thread.*sleep*(2000);

// Accepting alert

alert.dismiss();

driver.close();

}

@Test

**public** **void** AlertsException() **throws** InterruptedException {

WebDriver driver = **new** ChromeDriver();

**try** {

System.*setProperty*("webdriver.chrome.driver","./drivers/chromedriver.exe");

driver.manage().window().maximize();

driver.get("https://demo.guru99.com/test/delete\_customer.php");

// Switching to Alert

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

// Capturing alert message.

String alertMessage= driver.switchTo().alert().getText();

// Displaying alert message

System.***out***.println(alertMessage);

Thread.*sleep*(2000);

// Accepting alert

alert.accept();

driver.close();

}**catch** (Exception e) {

System.***out***.println("Exception Message "+e.getMessage());

driver.close();

}

}

}

**Sample 3**

**Popup Window:**

**import** java.util.Iterator;

**import** java.util.Set;

**import** org.openqa.selenium.Alert;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.chrome.ChromeDriver;

**import** org.testng.annotations.Test;

**public** **class** MultipleWindowTabsHandling {

@Test

**public** **void** MultiWindows() **throws** InterruptedException {

WebDriver driver = **new** ChromeDriver();

**try** {

System.*setProperty*("webdriver.chrome.driver","./drivers/chromedriver.exe");

driver.manage().window().maximize();

// Alert Message handling

driver.get("https://demo.guru99.com/popup.php");

driver.findElement(By.*xpath*("//a[text()='Click Here']")).click();

String parentWindow = driver.getWindowHandle();

System.***out***.println("Parent Window: "+parentWindow);

Set<String> windows = driver.getWindowHandles();

**for**(**int** i=0; i<=windows.size(); i++) {

**if**(windows.equalsIgnoreCase(parentWindow)) {

System.***out***.println("This is Parent Tab/Window: "+window);

}**else** {

System.***out***.println("This is child Tab/Window: "+window);

driver.switchTo().window(window);

System.***out***.println("Focus to child Tab/Window: "+window);

driver.close();

}

}

// Iterator<String> i1=windows.iterator();

// while(i1.hasNext())

// {

// String ChildWindow=i1.next();

// if(!parentWindow.equalsIgnoreCase(ChildWindow))

// {

// // Switching to Child window

// driver.switchTo().window(ChildWindow);

// driver.findElement(By.name("emailid"))

// .sendKeys("gaurav.3n@gmail.com");

// driver.findElement(By.name("btnLogin")).click();

//

// // Closing the Child Window.

// driver.close();

// }

// }

**for**(String window : windows) {

**if**(window.equalsIgnoreCase(parentWindow)) {

System.***out***.println("This is Parent Tab/Window: "+window);

}**else** {

System.***out***.println("This is child Tab/Window: "+window);

driver.switchTo().window(window);

System.***out***.println("Focus to child Tab/Window: "+window);

driver.close();

}

}

driver.findElement(By.*xpath*("//a[text()='Click Here']")).click();

driver.switchTo().window(parentWindow);

// driver.switchTo().defaultContent();

System.***out***.println("Focus back to parent Tab/Window: "+parentWindow);

}**catch** (Exception e) {

System.***out***.println("Exception Message "+e.getMessage());

}**finally** {

driver.close();

driver.quit();

}

}

}