**Automate a Web Application**

**Source Code**

**REDIFFDEMO:**

package com.qa.SeleniumScripts;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

public class RediffDemo {

public static void main(String[] args) throws InterruptedException {

// TODO Auto-generated method stub

WebDriver driver = new ChromeDriver();

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

driver.get("http://register.rediff.com/register/register.php?FormName=user\_details");

// driver.findElements(By.xpath("//input[@type='text']")).get(0).sendKeys("hari");

driver.findElement(By.xpath("(//input[@type='text'])[1]")).sendKeys("hari gadhe");

Thread.sleep(2000);

driver.findElement(By.xpath("(//input[@type='text'])[2]")).sendKeys("admin123");

Thread.sleep(2000);

driver.findElement(By.xpath("(//input[@type='button'])[1]")).click();

Thread.sleep(2000);

driver.findElement(By.xpath("(//input[@type='password'])[1]")).sendKeys("password@123");

}

}

**CSSS SELECTOR DEMO:**

package com.qa.SeleniumScripts;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

public class CSSSelectorDemo {

public static void main(String[] args) {

// TODO Auto-generated method stub

WebDriver driver = new ChromeDriver();

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

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

// 1. find element using tag and id ==>tagname#idvalue

driver.findElement(By.cssSelector("input#first\_name")).sendKeys("hari");

//driver.findElement(By.cssSelector("input.required")).sendKeys("Gadhe");

driver.findElement(By.cssSelector("input[name=last\_name]")).sendKeys("Gadhe");

}

}

**WEB ELEMENT DEMO:**

package com.qa.SeleniumScripts;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

public class WebelementDemo {

public static void main(String[] args) throws InterruptedException {

// TODO Auto-generated method stub

WebDriver driver = new ChromeDriver();

driver.get("https://www.wikipedia.org/");

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

// store the location of the element in an object of type WebElement

WebElement e1 = driver.findElement(By.id("searchInput"));

e1.isDisplayed();

e1.isEnabled();

e1.sendKeys("Automation testing");

Thread.sleep(3000);

// Name locator

WebElement e2 = driver.findElement(By.name("search")) ;

e2.clear();

e2.sendKeys("New data for automation");

}

}

**XPATH DEMO:**

package com.qa.SeleniumScripts;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

public class XPATHDemo {

public static void main(String[] args) throws InterruptedException {

// TODO Auto-generated method stub

WebDriver driver = new ChromeDriver();

driver.get("https://www.wikipedia.org/");

// Find an element using XPATH locator

// XPATh : Relative XPATH : //tag[@attribute='value']

driver.findElement(By.xpath("//input[@name='search']")).sendKeys("findelement");

// element 2 to click on button

Thread.sleep(2000);

driver.findElement(By.xpath("//button[@type='submit']")).click();

}

}

**LINKS DEMO:**

package com.qa.SeleniumScripts;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

public class LinksDemo {

public static void main(String[] args) {

// TODO Auto-generated method stub

WebDriver driver = new ChromeDriver();

driver.get("https://www.wikipedia.org/");

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

driver.manage().deleteAllCookies();

driver.findElement(By.xpath("//\*[@id='searchInput']")).sendKeys("Testing");

driver.findElement(By.cssSelector("button[type=submit]")).click();

// click on the link

WebElement li= driver.findElement(By.linkText("Current events"));

li.isDisplayed();

li.isEnabled();

li.click();

driver.findElement(By.partialLinkText("Log")).click();

driver.close();

}

}

**LOCATORS ID:**

package com.qa.SeleniumScripts;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

public class LocatorsID {

public static void main(String[] args) {

// TODO Auto-generated method stub

WebDriver driver = new ChromeDriver();

driver.get("https://www.wikipedia.org/");

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

// Check if the element is displayed

boolean dis = driver.findElement(By.id("searchInput")).isDisplayed();

System.out.println("IS the element displayed ?" + dis);

// check if the element is enabled or not

booleanenb = driver.findElement(By.id("searchInput")).isEnabled();

System.out.println("IS the element enabled ?" + enb);

// Enter data in the webelement - input box

if(enb==true)

{

driver.findElement(By.id("searchInput")).sendKeys("Automation testing");

}

else

{

System.out.println("textbox is not enabled");

}

}

}

**LOCATOR TAGS:**

package com.qa.SeleniumScripts;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

public class Locatortag {

public static void main(String[] args) {

// TODO Auto-generated method stub

WebDriver driver = new ChromeDriver();

driver.get("https://www.wikipedia.org/");

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

// wherever out attribute value is not unique, then go for findElements& get

driver.findElements(By.tagName("input")).get(2).sendKeys("data");

}

}

**NAVIGATION METHOD:**

package com.qa.SeleniumScripts;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

public class NavigationMethods {

public static void main(String[] args) throws InterruptedException {

// TODO Auto-generated method stub

WebDriver driver = new ChromeDriver();

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

driver.manage().deleteAllCookies();

driver.get("https://www.wikipedia.org/");

String expctedtitle= "Wikipedia123";

String actualtitle = driver.getTitle(); // will fetch the title of the page

if(expctedtitle.equals(actualtitle))

{

System.out.println("title of the page is correct");

}

else {

System.out.println("title of the page is not correct");

}

driver.navigate().to("https://www.selenium.dev/downloads/");

String title1 = driver.getTitle(); // will fetch the title of the page

System.out.println("Title of Page2 =" + title1);

driver.navigate().back(); // navigates back to previous url

Thread.sleep(2000);

driver.navigate().forward();

Thread.sleep(2000);

driver.close();

}

}

**SETUP CHECK:**

package com.qa.SeleniumScripts;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.firefox.FirefoxDriver;

public class SetUpcheck {

public static void main(String [] args) throws InterruptedException

{

// WebDriver

// can open a chrome browser window

WebDriver driver = new ChromeDriver();

// Maxamize the browser window

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

// Open a webpage-URL on the browser

driver.get("https://www.wikipedia.org/");

// do some testing

//Close the browser window

Thread.sleep(2000); // add wait time before closing the window

driver.close(); // will close that particular browser window

}

}