AUTOMATION WEB APPLICATION

DESCRIPTION

Project Objective:

As a Full Stack Developer, you have to build an automation script that automated the basic functionalities like registration and login.

Background of the problem statement:

As the project is in the final stage, management has asked you to automate the basic functionalities like registration and login for all the internal employees. This will help the development and DevOps team to work efficiently with the application.

You must use the following:

- Eclipse
- Selenium WebDriver
- GitHub

Following requirements should be met:

- A few of the source code should be tracked on GitHub repositories. You need to document the tracked files that are ignored during the final push to the GitHub repository.
- The submission of your GitHub repository link is mandatory. In order to track your task, you need to share the link of the repository in the document.
- The step-by-step process involved in completing this task should be documented.

CODE

REDIFF DEMO:

```
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?F
ormName=user_details");
```

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

      driver.findElement(By.xpath("(//input[@type='text'])[1]")).sen
dKeys("hari gadhe");
      Thread.sleep(2000);

      driver.findElement(By.xpath("(//input[@type='text'])[2]")).sen
dKeys("admin123");
      Thread.sleep(2000);

      driver.findElement(By.xpath("(//input[@type='button'])[1]")).c
lick();
      Thread.sleep(2000);

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

      }

}
```

CSS 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")).sendKey
s("hari");


      //driver.findElement(By.cssSelector("input.required")).sendKey
s("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 Webelement Demo {

      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']")).sendKe
ys("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']")).sendKey
s("Testing");


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

		// 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
```

```
            boolean enb =
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 expected title= "Wikipedia123";

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

            if(expected title.equals(actual title))
            {
                  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



      }

}
```