Selenium Assessment-1
Topics: Selenium WebDriver, WebElements andLocators (Fiserv)

Trainer: Sagar

1. **Batch1:**
   Name-

   Enter your answer

2. **Batch2:**
   Name-

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3. **What is the Difference between**

   driver.get("*********") & driver.navigate().to("**********") methods**

   driver.get - will launch the url and will wait till page loads
   driver.navigate().to - will launch the Url but will not wait till page load and execute next line of code.

4. What is the Difference between driver.close() & driver.quit() methods

driver.close() - close the current browser tab
driver.quit() - kill all browser sessions launched thru WebDriver

5. Write a Code snippet to load the Edge browser

WebDriver driver = new EdgeDriver();

6. List out the Implementation classes of Selenium WebDriver

BY id ()
By name ()
By class ()
By Linktext ()
By PartialLinkText ()
By tagName ()
By xpath ()
By cssSelector ()

7. List out all '8' different locators

ID
Class
Name
linktext
PartialLinkText
Tagname
Xpath
CSSSelector

8. **Manually Open https://www.fiserv.com/and inspect the "Developers" link and Write Absolute Xpath.**

```java
package WebDriver.Assessment1_101123;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

import javax.lang.model.element.Element;

public class Question8_Self {

    public static void main(String[] args) throws InterruptedException {
        WebDriver driver = new ChromeDriver();
        driver.get(" https://www.fiserv.com/");
        driver.manage().window().maximize();
        Thread.sleep(5000);
        WebElement DeveloperLink =
driver.findElement(By.xpath("//html/body/div[1]/div/div/div[1]/div/div[2]/header/div[3]/nav/ul/li[4]/label/span/span/a"));
        boolean b = DeveloperLink.isEnabled();
        if(b){
            DeveloperLink.click();
        }else {
            Thread.sleep(5000);
            DeveloperLink.click();
        }
        System.out.println("Developer link is Clicked");
        driver.quit();
    }
}
```

9. **Manually Open https://automatetest-trials710.orangehrmlive.com and Login to the application [UN: Admin, P: Admin@123]**

   On Home Page, Inspect the "Headcount by Location" text and write xpath with Parameters

```java
package WebDriver.Assessment1_101123;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
public class Question9_Self {

    public static void main(String[] args) throws InterruptedException {
        WebDriver driver = new ChromeDriver();
        driver.get("https://automatetest-trials710.orangehrmlive.com/");
        driver.manage().window().maximize();
        Thread.sleep(5000);

        WebElement userI = driver.findElement(By.id("txtUsername"));
        WebElement userP = driver.findElement(By.id("txtPassword"));
        WebElement LoginButton =
driver.findElement(By.xpath("//form[@id='frmLogin']/div[4]/button[@type='submi
t']"));

        userI.sendKeys("Admin");
        userP.sendKeys("Admin@123");
        LoginButton.click();
        Thread.sleep(2000);

        WebElement HeadcountHeader =
driver.findElement(By.xpath("//span[text()='Headcount by Location']"));
        boolean b = HeadcountHeader.isDisplayed();
        if(b){
            System.out.println("Headcount Header is available on the page");
        }
        else{
            System.out.println("Headcount Header is not available on the page");
        }

        driver.close();

    }
}
```

10. **Manually Open <u>http://demowebshop.tricentis.com/</u> and on Home Page there will be some first Image under FEATURED PRODUCTS. Write a best Relative Xpath.**

```
package WebDriver.Assessment1_101123;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
public class Question10_Self {
    public static void main(String[] args) throws InterruptedException {
        WebDriver driver = new ChromeDriver();
        driver.get("http://demowebshop.tricentis.com/");
        driver.manage().window().maximize();
        Thread.sleep(5000);

        WebElement image_GiftCard =
driver.findElement(By.xpath("//div[@class='title']/strong[text()='Featured
products']/..//following-sibling::div[1]/div[@class='product-item']/div/a/img"));
        boolean b = image_GiftCard.isDisplayed();
        if (b){
            System.out.println("Product is Visible");
        }

        driver.close();
    }
}
```

11. **Manually Open http://demowebshop.tricentis.com/ and on Home Page, Vote button present, inspect it and write a CSS Selector**

```
WebElement voteButton = driver.findElement(By.cssSelector("input[type='button']
[id='vote-poll-1']"));
        boolean v = voteButton.isEnabled();
        String VoteButtonName = voteButton.getAttribute("Value");
        if(v){
            System.out.println("Vote button is Enabled.");
            System.out.println("Button Name is -"+VoteButtonName);
            //voteButton.click(); // Not Sure why the Click operation not working
here....
            `
```

12. **List out the few WebElement methods**

sendkeys
click
clear
submit [only when tag is FORM]
isEnabled
isSelected
isDisplayed

13. **Coding Challenge:**

Pre-Requistes: [DO BELOW STEPS MANUALLY BEFORE AUTOMATING ACTUAL SCENARIO]

1. open, Demo WebShop http://demowebshop.tricentis.com/

2. Click on Register Link, Provide all necessary information and Register with your credentials

3. Select some Item and click on Add to Cart

4. Click on Shopping Cart and Click on Checkout button

5. In Checkout page, under billing address fill all the required information and place one order, So that address will be saved

Enter your answer

14. **TC01 # Order Placement with Multiple Items - Write Automation Script [Use only Xpath and CSSSelectors] for below steps**

1. Load the Demo WebShop http://demowebshop.tricentis.com/

2. Login with Below Credentials

U/Email: <Registered UN>

P: <Registed P>

3. In Categories Window, Click on Books

4. Read the First Item Price and Click on First Item Add to Cart button

5. In Categories Window, Click on Jewellery

6. Read the First Item Price and Click on First Item Add to Cart button

7. Click on Shopping cart link

8. Validate the Total of above two Item Prices matching with Sub-total.

9. If sub-total value matches, Continue further otherwise Print a statement that Sub-total is not matched

10. Click on Check-box "I agree with the terms of service"

11. Click on Checkout button

12. Under Billing Address, click on Continue button

13. Under Shipping Address, click on Continue button

14. Under Shipping Method, click on Next Day Air button and click on Continue

15. Under Payment Method, Keep Cash On Delivery radio-button and click on Continue

16. Under Payment Information, Click on Continue button

17. Under Confirm Order, Click on Confirm button

18. Get the Order Number and print it

19. Now click on Email ID on top of the Page

20. Click on Orders

21. Open the Order Number which is Placed (Click on Details)

22. Validate whether Quantity and Total is correctly displayed

23. Logout from the Application

24. Close the browser.

Enter your answer

15. **TC#02 - Add User Write Automation Script [Use only Xpath and CSSSelectors] for below steps**

1 Open the Orange HRM Application https://automatetest-trials710.orangehrmlive.com/

2 Enter the U as "Admin"

3 Enter the P as "Admin@123"

4 Click on Login button

5 Verify the title of a page --> Whether Login   is successful or not

6 Click on HR Administration link

7 Click on + (Add User) Icon

8 Enter Employee Name as Charlie Carter

9 Enter some Random UserName

10 Enter the P as "Admin@123"

11 Enter the Confirm P as   "Admin@123"

12 Click on Logout button

13 Enter the Random P which is Entered at   step 9

14 Enter the P as "Admin@123"

15 Click on Login button

16 Verify the Employee Name as Charlie Carter

17 Click on Logout button

```java
package WebDriver.Assessment1_101123;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
public class Question15_Self {

    public static void main(String[] args) throws InterruptedException {
        WebDriver driver = new ChromeDriver();
        driver.get("https://automatetest-trials710.orangehrmlive.com/auth/login");
        driver.manage().window().maximize();
        Thread.sleep(5000);

        WebElement userI = driver.findElement(By.cssSelector("#txtUsername"));
        WebElement userP = driver.findElement(By.cssSelector("#txtPassword"));
        WebElement LoginButton =
driver.findElement(By.xpath("//form[@id='frmLogin']/div[4]/button[@type='submi
t']"));
        userI.sendKeys("Admin");
        userP.sendKeys("Admin@123");
        LoginButton.click();
        Thread.sleep(10000);
        WebElement EmployeeManagementTitle =
driver.findElement(By.xpath("//div[@id='topbar']/ul/li/div[text()='Employee
Management']"));
        boolean empTitle = EmployeeManagementTitle.isDisplayed();
        if(empTitle){
            System.out.println("Home Page is loaded.");
        }
        WebElement HRAdmin = driver.findElement(By.xpath("//a[@data-
automation-id='menu_admin_viewSystemUsers']/span[text()='HR
Administration']"));
        HRAdmin.click();
        Thread.sleep(10000);
        WebElement AddUserIcon =
driver.findElement(By.xpath("//div[@id='systemUserDiv']/div[@data-tooltip='Add
User']/a/i"));
        AddUserIcon.click();
        Thread.sleep(5000);
        WebElement EmployeeName =
driver.findElement(By.cssSelector("#selectedEmployee_value"));
        WebElement EmpUID = driver.findElement(By.cssSelector("#user_name"));
        WebElement EmpP = driver.findElement(By.cssSelector("#password"));
        WebElement EmpCP =
driver.findElement(By.cssSelector("#confirmpassword"));
        WebElement SaveButton = driver.findElement(By.cssSelector("#modal-save-
button"));
        WebElement LogoutButton = driver.findElement(By.xpath("//span[text()='Log
Out']));
```

```
EmployeeName.sendKeys("Charlie Carter");
Thread.sleep(5000);
EmpUID.sendKeys("rctest12");
EmpP.sendKeys("Admin@123");
EmpCP.sendKeys("Admin@123");
SaveButton.click();
Thread.sleep(5000);
LogoutButton.click();
Thread.sleep(5000);

//additionalSteps
//geting stale element not found error so placing additional steps to close
and relaunch url
driver.quit();
Thread.sleep(5000);
driver.get("https://automatetest-trials710.orangehrmlive.com/auth/login"); //
Unable to re-launch and getting invalid Session ID error. Need to discuss.
driver.manage().window().maximize();
Thread.sleep(5000);

userI.sendKeys("rctest12");
```