

**Question 3. Launch a below browser in Chrome and verify below conditions using Selenium (Use XPath to Identify Web Elements) with Java <https://www.automationanywhere.com/>**

**a. Automation Anywhere logo should be present**

**b. Verify Request demo button is present and verify if it is clickable or not**

There are two classes,

Basic\_utilities: Contains basic browser functional methods.

Question3: Contains main method and other testing methods. It inherits Basic\_utilities.java.

Entire code:

Basic\_utilities.java

```
package Questions3and4;

import java.util.concurrent.TimeUnit;

import org.openqa.selenium.By;
import org.openqa.selenium.ElementNotInteractableException;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class Basic_utilities {

    public static WebDriver driver;

    public static void open_driver(String browserName ){
        if(browserName.equals("chrome")) {
            System.setProperty("webdriver.chrome.driver","../Drivers//chromedriver.exe");
            driver = new ChromeDriver();
        }
        driver.manage().window().maximize();
        driver.manage().timeouts().implicitlyWait(60, TimeUnit.SECONDS);
    }
}
```

```
public static void close_browser() {
    if(driver!=null)
        driver.quit();
}

public static void navigate_to_URL(String url) {
    driver.get(url);
}

public static void navigate_back() {
    driver.navigate().back();
}

public static boolean is_displayed(By element) {
    try {
        return driver.findElement(element).isDisplayed();
    }
    catch(Exception e) {
        return false;
    }
}

public static boolean is_enabled(By element) {
    try {
        return driver.findElement(element).isEnabled();
    }
    catch(Exception e) {
        return false;
    }
}

public static void scroll_browser(int horizontal, int vertical) {
    try {
        ((JavascriptExecutor) driver).executeScript("window.scrollTo("+horizontal+","+vertical+")", "");
        Thread.sleep(3000);
    } catch(Exception e) {
        e.printStackTrace();
    }
}
```

```

    }
}

public static void scroll_to_element(By element) {
    try {
        ((JavascriptExecutor) driver).executeScript("arguments[0].scrollIntoView(true);", driver.findElement(element));
    } catch (Exception e) {
        e.printStackTrace();
    }
}

public static void click(By element) {
    try {
        driver.findElement(element).click();
    } catch (ElementNotInteractableException e) {
        scroll_to_element(element);
        driver.findElement(element).click();
    }
}

public static String get_current_url() {
    return driver.getCurrentUrl();
}
}

```

### Question03.java

```

package Questions3and4;

import org.openqa.selenium.By;

public class Question03 extends Basic_utilities{

    // page elements
    public static By logo=By.xpath("//img[@class='coh-image coh-image-responsive-xl']"); //Relative XPath
}

```

```
public static By button_RequestDemo = By.xpath("/html/body/div[1]/header/div/div/div/div[2]/div/div/div[1]/div[2]/a"); //Absolute XPath
public static By button_accept_all_cookie = By.xpath("//*[@id='onetrust-accept-btn-handler']");

public static void main(String[] args) {

    open_driver("chrome");
    navigate_to_URL("https://www.automationanywhere.com/");
    click(button_accept_all_cookie);

    //-----Question 03-a-----
    verify_logo();

    //-----Question 03-b-----
    verify_RequestDemo_button();

    //verify_RequestDemo_button_navigation();

    close_browser();
}

public static void verify_logo() {
    if(is_displayed(logo))
        System.out.println("Test Pass: logo present");
    else
        System.out.println("Test Failed: logo is not present");
}

public static void verify_RequestDemo_button() {

    if(is_displayed(button_RequestDemo))
        System.out.println("Test Pass: RequestDemo button is present");
    else
        System.out.println("Test Failed: RequestDemo button is not present");

    System.out.println("Scroll down the page by 200px");
    scroll_browser(0,200);

    if(is_displayed(button_RequestDemo))
```

```

        System.out.println("Test Pass: RequestDemo button is present");
    else
        System.out.println("Test Failed: RequestDemo button is not present");

    if(is_enabled(button_RequestDemo))
        System.out.println("Test Pass: RequestDemo button is enabled");
    else
        System.out.println("Test Failed: RequestDemo button is not enabled");
}

public static void verify_RequestDemo_button_navigation() {
    click(button_RequestDemo);
    if(get_current_url().equals("https://www.automationanywhere.com/request-live-demo"))
        System.out.println("Test Pass: 'Request Demo' link navigated to correct page");
    else
        System.out.println("Test Pass: 'Request Demo' link navigated to wrong page");
}
}

```

Output:

|   |   |
|---|---|
| <pre> &gt; Que01 v Que03and04   &gt; JRE System Library [JavaSE-20]   v src     v Questions3and4       &gt; Basic_utilities.java       &gt; Question03.java       &gt; Question04.java </pre> | <pre> &lt;terminated&gt; Question03 [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (Sep 30, 2023, 11:23:53 AM – 11:24:09 AM) [pid: 28904] SLF4J: No SLF4J providers were found. SLF4J: Defaulting to no-operation (NOP) logger implementation SLF4J: See https://www.slf4j.org/codes.html#noProviders for further details. Test Pass: logo present Test Failed: RequestDemo button is not present Scroll down the page by 200px Test Pass: RequestDemo button is present Test Pass: RequestDemo button is enabled </pre> |
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