import java.io.File;

import java.util.List;

import org.apache.commons.io.FileUtils;

import org.openqa.selenium.By;

import org.openqa.selenium.OutputType;

import org.openqa.selenium.TakesScreenshot;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.firefox.FirefoxDriver;

import org.openqa.selenium.ie.InternetExplorerDriver;

import org.openqa.selenium.interactions.Actions;

public class BaseClass {

public static WebDriver driver;

public static void browserLaunch(String browsername) {

if (browsername.equalsIgnoreCase("chrome")) {

System.setProperty("webdriver.chrome.driver",

System.getProperty("user.dir") + "\\Driver\\chromedriver.exe");

driver = new ChromeDriver();

} else if (browsername.equalsIgnoreCase("ie")) {

System.setProperty("webdriver.ie.driver", System.getProperty("user.dir") + "\\Driver\\IEDriverServer.exe");

driver = new InternetExplorerDriver();

} else if (browsername.equalsIgnoreCase("firefox")) {

System.setProperty("webdriver.gecko.driver", System.getProperty("user.dir") + "\\Driver\\geckodriver.exe");

driver = new FirefoxDriver();

} else {

System.out.println("browser name is invalid");

}

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

}

public static void getUrl(String url) {

driver.get(url);

}

public static void mouseHover(String xpathStatement) throws Throwable {

Thread.sleep(3000);

Actions ac=new Actions(driver);

WebElement signIn = driver.findElement(By.xpath(xpathStatement));

ac.moveToElement(signIn).perform();

}

public static void clickOnElement(String xpathExpression) throws Throwable {

Thread.sleep(3000);

WebElement element = driver.findElement(By.xpath(xpathExpression));

element.click();

}

public static void webTableAllData() {

// System.setProperty("webdriver.chrome.driver",

// "D:\\JavaClass\\Selenium\\Driver\\chromedriver.exe");

// driver = new ChromeDriver();

driver.get("https://www.toolsqa.com/automation-practice-table/");

System.out.println("=======Body Data=======");

List<WebElement> allData = driver.findElements(By.xpath("//table/tbody/tr/td"));

for (WebElement outputRow : allData) {

String text = outputRow.getText();

System.out.println(text);

}

}

public static void webTableRow() {

// System.setProperty("webdriver.chrome.driver",

// "D:\\JavaClass\\Selenium\\Driver\\chromedriver.exe");

// driver = new ChromeDriver();

driver.get("https://www.toolsqa.com/automation-practice-table/");

System.out.println("=======Row Wise=======");

List<WebElement> rowData = driver.findElements(By.xpath("//table/tbody/tr[2]/td"));

for (WebElement outputRow : rowData) {

String text = outputRow.getText();

System.out.println(text);

}

}

public static void webTableColumn() {

//

// System.setProperty("webdriver.chrome.driver",

// "D:\\JavaClass\\Selenium\\Driver\\chromedriver.exe");

// driver = new ChromeDriver();

driver.get("https://www.toolsqa.com/automation-practice-table/");

System.out.println("=======Column Wise=======");

List<WebElement> columnData = driver.findElements(By.xpath("//table/tbody/tr/td[2]"));

for (WebElement outputColumn : columnData) {

String text = outputColumn.getText();

System.out.println(text);

}

}

public static void webTableData() {

// System.setProperty("webdriver.chrome.driver",

// "D:\\JavaClass\\Selenium\\Driver\\chromedriver.exe");

// driver = new ChromeDriver();

driver.get("https://www.toolsqa.com/automation-practice-table/");

System.out.println("=======Data Wise=======");

WebElement singleData = driver.findElement(By.xpath("//table/tbody/tr[2]/td[2]"));

System.out.println(singleData.getText());

}

public static void webTableScreenShot() throws Throwable {

// System.setProperty("webdriver.chrome.driver",

// "D:\\JavaClass\\Selenium\\Driver\\chromedriver.exe");

// driver = new ChromeDriver();

driver.get("https://www.toolsqa.com/automation-practice-table/");

System.out.println("=======Screen Shot=======");

TakesScreenshot ts = (TakesScreenshot) driver;

File sourceFile = ts.getScreenshotAs(OutputType.FILE);

File destFile = new File("D:\\JavaClass\\Selenium\\ScreenShots\\testnew.png");

FileUtils.copyFile(sourceFile, destFile);

}

}

**public** **class** AmazonAutomation **extends** BaseClass {

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

BaseClass.*browserLaunch*("IE");

BaseClass.*getUrl*("https://www.amazon.com");

BaseClass.*mouseHover*("//span[text()='Hello, Sign in']");

BaseClass.*clickOnElement*("//span[text()='Sign in']");

}

}