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Module Name: Latest Industry Trends

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Assignment No. 2

File name: BrowserStack.java

```
package cloudTesting;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.remote.DesiredCapabilities;
import org.openqa.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;
import org.testng.Assert;
import org.testng.annotations.AfterMethod;
import org.testng.annotations.BeforeMethod;
import org.testng.annotations.Parameters;
import org.testng.annotations.Test;

import java.net.MalformedURLException;
import java.net.URL;
import java.time.Duration;
import java.util.HashMap;
import org.openqa.selenium.remote.RemoteWebDriver;

public class BrowserStack {
    WebDriver driver;

    public static final String USERNAME = "piyushkasture_bWr9G1";
    public static final String ACCESS_KEY = "TyeP4XA7cCsTzEQ2C2gq";
```

```

public static final String BROWSERSTACK_URL = "https://" + USERNAME + ":" + ACCESS_KEY +
"@hub-cloud.browserstack.com/wd/hub";

WebDriverWait wait;

public void markTestStatus(String status, String reason, WebDriver driver) {
    JavascriptExecutor jse = (JavascriptExecutor) driver;
    jse.executeScript("browserstack_executor: {\\"action\\":\\"setSessionStatus\\", \\"arguments\\":
{\\"status\\":\\"
        + status + "\\", \\"reason\\":\\" + reason + "\\\"}"});
}

@Parameters({"os", "osVersion", "browserName", "browserVersion"})
@BeforeMethod
public void setUp(String os, String osVersion, String browserName, String browserVersion) throws
MalformedURLException {
    DesiredCapabilities caps = new DesiredCapabilities();
    HashMap<String, Object> bstackOptions = new HashMap<>();
    bstackOptions.put("os", os);
    bstackOptions.put("osVersion", osVersion);
    bstackOptions.put("projectName", "My TestNG Project");
    bstackOptions.put("buildName", "TestNG Build 1.0");
    bstackOptions.put("sessionName", "My Test Case");

    caps.setCapability("bstack:options", bstackOptions);
    caps.setCapability("browserName", browserName);
    caps.setCapability("browserVersion", browserVersion);

    driver = new RemoteWebDriver(new URL(BROWSERSTACK_URL), caps);

    wait = new WebDriverWait(driver, Duration.ofSeconds(10));
    driver.manage().window().maximize();
}

```

```
}
```

```
@Test(priority = 1)

public void testproductLoginSauceDemo() {

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

    try {

        WebElement username =
wait.until(ExpectedConditions.visibilityOfElementLocated(By.id("user-name")));

        WebElement password = driver.findElement(By.id("password"));

        WebElement loginButton = driver.findElement(By.id("login-button"));

        username.sendKeys("standard_user");

        password.sendKeys("secret_sauce");

        loginButton.click();

        driver.findElement(By.xpath("//div[normalize-space()='Sauce Labs Backpack']")).click();

        driver.findElement(By.xpath("//button[@id='add-to-cart']")).click();

        driver.findElement(By.xpath("//button[@id='back-to-products']")).click();

        driver.findElement(By.xpath("//a[@class='shopping_cart_link']")).click();

        WebElement removeButton =
wait.until(ExpectedConditions.visibilityOfElementLocated(By.xpath("//button[@id='remove-sauce-labs-backpack']")));

        Assert.assertTrue(removeButton.isDisplayed(), "Remove button not visible, login/cart flow failed.");

        markTestStatus("passed", "Item successfully added to cart.", driver);

        System.out.println("Item successfully added to cart");

    } catch (Exception e) {

        markTestStatus("failed", "Item not added in cart: " + e.getMessage(), driver);
    }
}
```

```

        Assert.fail("Test failed: " + e.getMessage());
    }
}

@AfterMethod
public void tearDown() {
    if (driver != null) {
        driver.quit();
    }
}
}

```

XML File name: BrowserStack.xml

```

<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd" >
<suite name="BrowserStack Suite">
    <test name="Simple TestNG Tests">
        <parameter name="os" value="Windows"></parameter>
        <parameter name="osVersion" value="10"></parameter>
        <parameter name="browserName" value="Chrome"></parameter>
        <parameter name="browserVersion" value="120"></parameter>
        <classes>
            <class name="cloudTesting.BrowserStack"/>
        </classes>
    </test>
</suite>

```

Output:

```
Console X
<terminated> BrowserStack_BrowserStack.xml [TestNG] C:\Users\Piyush Kasture\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_23
[RemoteTestNG] detected TestNG version 7.9.0
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
Nov 30, 2025 7:29:40 PM org.openqa.selenium.remote.tracing.opentelemetry.OpenTelemetryTracer createTracer
INFO: Using OpenTelemetry for tracing
Item successfully added to cart

=====
BrowserStack Suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
=====
```

Results of running suite X

Search: Passed: 1 Failed: 0 Skipped: 0 Tests: 1/1 Methods: 1 (24938 ms)

All Tests | Failed Tests | Summary

- BrowserStack Suite (1/0/0/0) (7.474 s)
 - Simple TestNG Tests (7.474 s)
 - cloudTesting.BrowserStack
 - testproductLoginSauceDemo (7.47)

Failure Exception

BrowserStack Output:

BrowserStack Automate

App Automate

Live

App Live

Products

Invite team

Plans and pricing

1

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TestNG Build 1.0 #14

Passed

QG Pending

Piyush Kasture

20s

Automate

7 mins ago

View metadata

Insights

Tests

Accessibility

1

0

0

0

All Tests

Search by test name, file path, error or BrowserSt

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My Test Case

Item successfully added to cart.

Chrome 120.0

Win 10

20s

