Browser Stack Integration

Step 1: Create a Free trial account

1. Go to BrowserStack website
2. Click **"Get Started Free"** or **"Sign Up"**
3. Sign up using:

   - Email

   - Google account

   - GitHub account

Verify your email (if asked), Free account is created.

Step 2: Log into BrowserStack Dashboard

1. Once logged in, you will be taken to the main dashboard.

Step 3: Download Sample project :

1. From the left sidebar → Click **Automate**
2. Go to **"Getting Started"**
3. Download zip file
4. Unzip it.

Step 4: Setup Eclipse project

1. Create a maven project
2. Install testNG plugin
3. From Sample Project shared in GDrive, Copy java files and pom.xml and testNG.xml to project
4. Run test.java
5. Run Login_Sauce_Demo_TestNG.java
6. Install BrowserStack Plugin.

Step 5: Configure project for executing tests on browser Stack

1. **Create username password and URL as public variables in class:**

```java
public static final String USERNAME = "anjalikulkarni_D7CEPh";
public static final String ACCESS_KEY = "bFr36gwqXFQrhQ391HT4";
public static final String BROWSERSTACK_URL = "https://" + USERNAME + ":" + ACCESS_KEY +
"@hub-cloud.browserstack.com/wd/hub";
```

2. **Declare parameters for the test:**

```java
@Parameters({"os", "osVersion", "browser", "browserVersion"})
```

3. **Set Capabilities in BeforeMethod:**

```java
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");

// attach BrowserStack options
caps.setCapability("bstack:options", bstackOptions);
```

4. **Use a Remote Web Driver instead of regular chrome driver:**

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

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5. Create a TestNG.xml file for running tests and setting parameters:

```xml
<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd" >
<suite name="BrowserStack Suite">

    <test name="Windows Chrome Test">
        <parameter name="os" value="Windows"/>
        <parameter name="osVersion" value="10"/>
        <parameter name="browser" value="Chrome"/>
        <parameter name="browserVersion" value="120"/>
        <classes>
            <class name="ccstDemo.Login_SauceDemo_TestNG"/>
        </classes>
    </test>

    <test name="Mac Safari Test">
        <parameter name="os" value="OS X"/>
        <parameter name="osVersion" value="Monterey"/>
        <parameter name="browser" value="Safari"/>
        <parameter name="browserVersion" value="15.6"/>
        <classes>
            <class name="ccstDemo.Login_SauceDemo_TestNG"/>
        </classes>
    </test>

</suite>
```

6. Run tests see results in Browser Stack

7. Add Function to set test results in Browser Stack

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

8. Call this function in try and catch blocks of test case:

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```
markTestStatus("passed", "User successfully logged in.", driver);
```

Step 5: Observe results in Browser Stack.

- Automate > Overview > All Builds
- Build > Insignts
- Build > Tests
- Test > Debug > Execution Video
- Select Build from side bar > Observe various environments