

## Multi Browser Testing using Selenium TestNG

**Step 1:** Create your Script. Using TestNG annotations. Define parameters (using @Parameters) for taking input value i.e, which browser should be used for Running the Test

**Step 2:** Create a TestNG XML for running your script

**Step 3:** Configure the TestNG XML for passing parameters i.e, to tell which browser should be used for Running the Test

**Step 4:** Run the TestNG XML which can pass the appropriate browser name to the Script such that the Test Case is executed in a specified browser

```
public class MultiBrowserTest {

    private WebDriver driver;

    // Configure for multi browser drivers
    @Parameters("browser")
    @BeforeClass
    public void beforeTest(String browser) {
        if (browser.equalsIgnoreCase("firefox")) {
            driver = new FirefoxDriver();
        } else if (browser.equalsIgnoreCase("chrome")) {
            // Set Path for the executable file
            System.setProperty("webdriver.chrome.driver",
                "D:\\chromedriver.exe");
            driver = new ChromeDriver();
        } else if (browser.equalsIgnoreCase("ie")) {
            // Set Path for the executable file
            System.setProperty("webdriver.ie.driver",
                "D:\\IEDriverServer.exe");
            driver = new InternetExplorerDriver();
        } else {
            throw new IllegalArgumentException("The Browser Type is
Undefined");
        }
        // Open App
        driver.get("http://demo.opensourcecms.com/wordpress/wp-login.php");
    }

    @Test
    public void login() throws InterruptedException {
        // Enter UserName
        driver.findElement(By.id("user_login")).clear();
        driver.findElement(By.id("user_login")).sendKeys("admin");
        // Enter Password
        driver.findElement(By.id("user_pass")).clear();
        driver.findElement(By.id("user_pass")).sendKeys("demo123");
        // Click on Submit button
    }
}
```

```

        driver.findElement(By.id("wp-submit")).submit();
    }

    @AfterClass
    public void afterTest() {
        try {
            driver.quit();
        } catch (Exception e) {
            driver = null;
        }
    }
}

```

testNG.xml

```

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "http://testng.org/testng-1.0.dtd">

<!--Change The Parallel attribute for parallel Execution-->
<suite name="Suite" parallel="tests">

    <test name="FirefoxTest">
        <parameter name="browser" value="firefox" />
        <classes>
            <class name="atu.multibrowser.MultiBrowserTest" />
        </classes>
    </test>

    <test name="ChromeTest">
        <parameter name="browser" value="chrome" />
        <classes>
            <class name="atu.multibrowser.MultiBrowserTest" />
        </classes>
    </test>

    <test name="IETest">
        <parameter name="browser" value="ie" />
        <classes>
            <class name="atu.multibrowser.MultiBrowserTest" />
        </classes>
    </test>

</suite>

```