

Handling Cookies

In this lesson, we will learn about cookies and how Selenium WebDriver interacts with them.

WE'LL COVER THE FOLLOWING



- What is an HTTP cookie?
- Selenium WebDriver interaction with cookies
- GET, ADD, and DELETE cookie in Selenium
- Sample code for handling cookie using WebDriver

The below example code can be downloaded and run locally; it is included as a part of the Sample UI test framework, [please refer](#).

What is an HTTP cookie?

The web browser of the client machine stores information received from a website as a key-value pair when the user does web browsing and puts it in a text file. When the user visits that website again, the browser sends back the stored cookie to the server and notifies the user's stored information and past activities.

Selenium WebDriver interaction with cookies

Selenium WebDriver provides `org.openqa.selenium.WebDriver.Options` class that contains the following built-in methods to interact with the browser cookies:

- Get cookies
- Add cookies
- Delete cookies

GET, ADD, and DELETE cookie in Selenium

GET cookie

`getCookieNamed(String name)` – gets a cookie with a given name

```
String getCookieValue = driver.manage().getCookieNamed(cookieName).getValue();
```

`getCookies()` – gets all the cookies for the current domain

```
Set<Cookie> getAllCookies = driver.manage().getCookies();
```

ADD Cookie

`addCookie(Cookie cookie)` – adds a cookie in Selenium WebDriver

```
Cookie addCookie = new Cookie("newCookie", "cookieValue");  
driver.manage().addCookie(addCookie);
```

DELETE Cookie

`deleteCookie(Cookie cookie)` – deletes a cookie from the browser’s “cookie jar”

```
driver.manage().deleteCookie(cookie);
```

`deleteCookieNamed(String name)` – deletes the named cookie from the current domain

```
driver.manage().deleteCookieNamed(cookieName);
```

`deleteAllCookies()` – deletes all the cookies for the current domain

```
driver.manage().deleteAllCookies();
```

Sample code for handling cookie using WebDriver

```
// Create Webdriver instance  
WebDriver driver = DriverManager.getWebDriver();  
  
// Open the web URL.  
driver.get("http://codetoautomate.com/educative-selenium-demo/");
```

```
// Create and add a new cookie

Cookie addCookie = new Cookie("newCookie", "educativeCookie");
driver.manage().addCookie(addCookie);

// Get the already set cookie name
String getCookieValue = driver.manage().getCookieNamed("newCookie").getValue();

LOG.info("Cookie Value: " + getCookieValue);

Assert.assertEquals(getCookieValue, "educativeCookie");

// Delete the cookie
driver.manage().deleteCookieNamed("newCookie");
```

That's all for handling cookies. In the next lesson, you'll learn how to work with drag, drop and hovering functionality.