

# 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");
```

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