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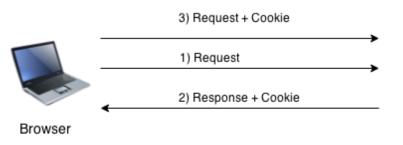
## Cookies in Servlet

A **cookie** is a small piece of information that is persisted between the requests.

A cookie has a name, a single value, and optional attributes such as a and domain qualifiers, a maximum age, and a version number.

## How Cookie works

By default, each request is considered as a new request. In cookies tec cookie with response from the servlet. So cookie is stored in the browser. After that if request is sent by the user, cookie is added w default. Thus, we recognize the user as the old user.





Server

# Types of Cookie

There are 2 types of cookies in servlets.

- 1. Non-persistent cookie
- 2. Persistent cookie

#### Non-persistent cookie

It is **valid for single session** only. It is removed each time when user closes the browser.

#### Persistent cookie

It is **valid for multiple session** . It is not removed each time when user closes the browser. It is removed only if user logout or signout.

# Advantage of Cookies

- 1. Simplest technique of maintaining the state.
- 2. Cookies are maintained at client side.

# Disadvantage of Cookies

- 1. It will not work if cookie is disabled from the browser.
- 2. Only textual information can be set in Cookie object.

Note: Gmail uses cookie technique for login. If you disable the cookie, gmail won't work.

## Cookie class

**javax.servlet.http.Cookie** class provides the functionality of using cookies. It provides a lot of useful methods for cookies.

#### **Constructor of Cookie class**

Constructor			Description
Cookie()			constructs a cookie.
Cookie(String value)	name,	String	constructs a cookie with a specified name and value.

#### **Useful Methods of Cookie class**

There are given some commonly used methods of the Cookie class.

Method	Description
<pre>public void setMaxAge(int expiry)</pre>	Sets the maximum age of the cookie in seconds.
public String getName()	Returns the name of the cookie. The name cannot be changed after creation.
public String getValue()	Returns the value of the cookie.

public void setName(String name)	changes the name of the cookie.
public void setValue(String value)	changes the value of the cookie.

## Other methods required for using Cookies

For adding cookie or getting the value from the cookie, we need some methods provided by other interfaces. They are:

- 1. **public void addCookie(Cookie ck):**method of HttpServletResponse interface is used to add cookie in response object.
- 2. **public Cookie[] getCookies():**method of HttpServletRequest interface is used to return all the cookies from the browser.

## How to create Cookie?

Let's see the simple code to create cookie.

```
Cookie ck=new Cookie("user","sonoo jaiswal");//creating cookie object response.addCookie(ck);//adding cookie in the response
```

## How to delete Cookie?

Let's see the simple code to delete cookie. It is mainly used to logout or signout the user.

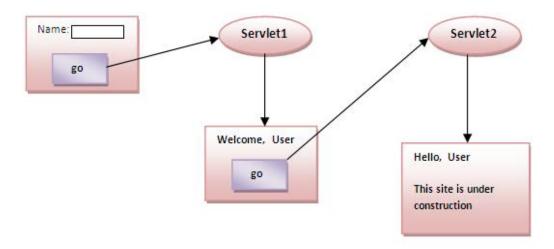
```
Cookie ck=new Cookie("user","");//deleting value of cookie ck.setMaxAge(0);//changing the maximum age to 0 seconds response.addCookie(ck);//adding cookie in the response
```

# How to get Cookies?

Let's see the simple code to get all the cookies.

# Simple example of Servlet Cookies

In this example, we are storing the name of the user in the cookie object and accessing it in another servlet. As we know well that session corresponds to the particular user. So if you access it from too many browsers with different values, you will get the different value.



#### index.html

```
<form action="servlet1" method="post">
Name:<input type="text" name="userName"/><br/>
<input type="submit" value="go"/>
</form>
```

## FirstServlet.java

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;

public class FirstServlet extends HttpServlet {
   public void doPost(HttpServletRequest request, HttpServletResponse response){
     try{
     response.setContentType("text/html");
     PrintWriter out = response.getWriter();
```

```
String n=request.getParameter("userName");
out.print("Welcome "+n);

Cookie ck=new Cookie("uname",n);//creating cookie object
response.addCookie(ck);//adding cookie in the response

//creating submit button
out.print("<form action='servlet2'>");
out.print("<input type='submit' value='go'>");
out.print("</form>");

out.close();

}catch(Exception e){System.out.println(e);}
}
```

#### SecondServlet.java

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;

public class SecondServlet extends HttpServlet {

public void doPost(HttpServletRequest request, HttpServletResponse response){
    try{

    response.setContentType("text/html");
    PrintWriter out = response.getWriter();

    Cookie ck[]=request.getCookies();
    out.print("Hello "+ck[0].getValue());

    out.close();

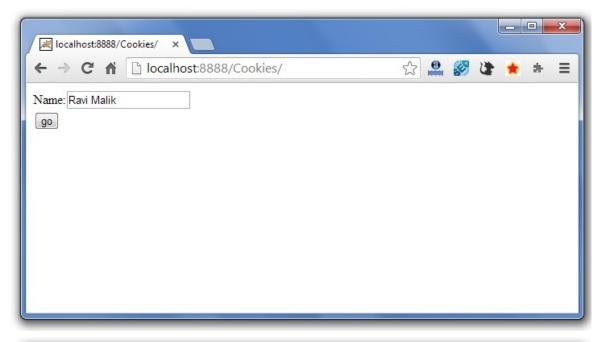
    }catch(Exception e){System.out.println(e);}
}
```

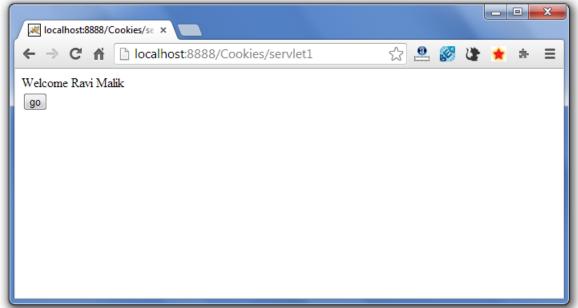
#### web.xml

```
<web-app>
<servlet>
<servlet-name>s1</servlet-name>
<servlet-class>FirstServlet</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>s1</servlet-name>
<url-pattern>/servlet1</url-pattern>
</servlet-mapping>
<servlet>
<servlet-name>s2</servlet-name>
<servlet-class>SecondServlet/servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>s2</servlet-name>
<url-pattern>/servlet2</url-pattern>
</servlet-mapping>
</web-app>
```

download this example (developed using Myeclipse IDE) download this example (developed using Eclipse IDE) download this example (developed using Netbeans IDE)

#### **Output**







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