Creates a cookie, **a small amount of information sent by a servlet to a Web browser, saved by the browser, and later sent back to the server.** A cookie's value can uniquely identify a client, so cookies are commonly used for session management.

Steps to send Cookies to the Client

1. Create a cookie object.
2. Set the maximum age.
3. Place the cookie in http response header.

Cookie c = new Cookie("userName","Chaitanya");

c.setMaxAge(1800); //this cookie will be active for 1800 seconds

response.addCookie(c); //cookie will be sent to client browser through response object

To delete cookie : set maximum age of cookie to zero

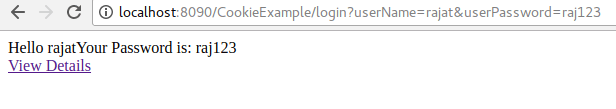
c.setMaxAge(0);

Example program for cookie.

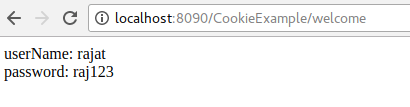
1.Login page



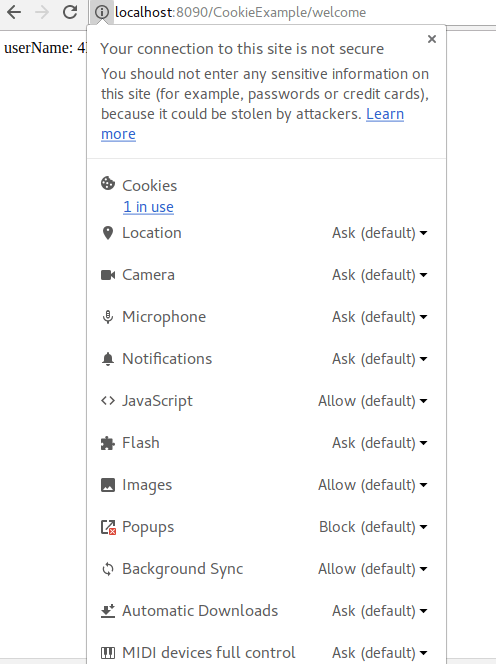
2.After Login



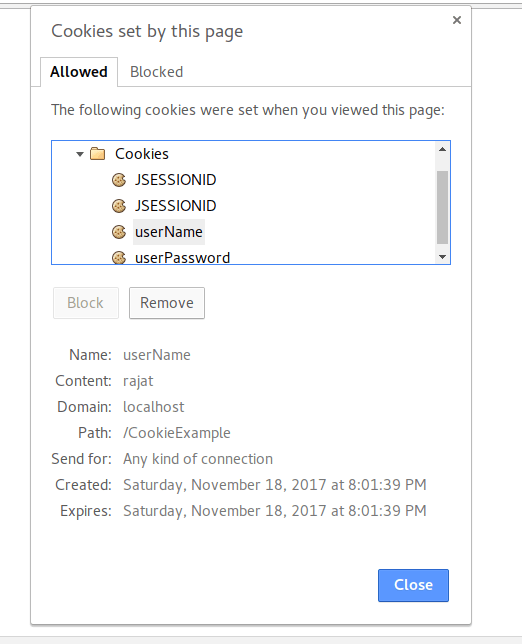
3.View Details page



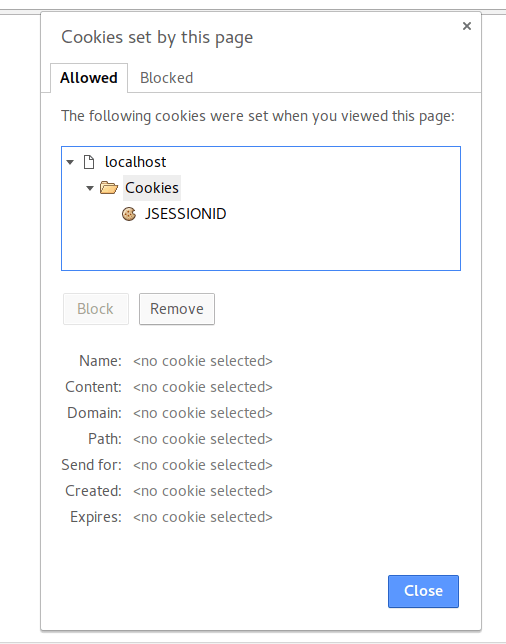
4.To Check cookies on page , click on view\_site\_information first.



5.click on cookies to check list of cookies



6. To remove cookies set max age to zero and go back to previous page and click on viewdetails link again(cookies always embedded inside request) , check again site info and cookies list. You will see all cookies has been cleared except JSESSIONID which is sent by server.



Code:

**1.create login page index.html**

<form action="login">

User Name:<input type="text" name="userName"/><br/>

Password:<input type="password" name="userPassword"/><br/>

<input type="submit" value="submit"/>

</form>

**2.create web.xml under web-inf folder**

<web-app>

<display-name>CookieDemo</display-name>

<welcome-file-list>

<welcome-file>index.html</welcome-file>

</welcome-file-list>

<servlet>

<servlet-name>Servlet1</servlet-name>

<servlet-class>MyServlet1</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>Servlet1</servlet-name>

<url-pattern>/login</url-pattern>

</servlet-mapping>

<servlet>

<servlet-name>Servlet2</servlet-name>

<servlet-class>MyServlet2</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>Servlet2</servlet-name>

<url-pattern>/welcome</url-pattern>

</servlet-mapping>

</web-app>

3.create Login servlet **MyServlet1.java**

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.http.\*;

public class MyServlet1 extends HttpServlet

{

public void doGet(HttpServletRequest request,

HttpServletResponse response) {

try{

response.setContentType("text/html");

PrintWriter pwriter = response.getWriter();

String name = request.getParameter("userName");

String password = request.getParameter("userPassword");

pwriter.print("Hello "+name);

pwriter.print("Your Password is: "+password);

//Creating two cookies

Cookie c1=new Cookie("userName",name);

Cookie c2=new Cookie("userPassword",password);

//Adding the cookies to response header

response.addCookie(c1);

response.addCookie(c2);

pwriter.print("<br><a href='welcome'>View Details</a>");

pwriter.close();

}catch(Exception exp){

System.out.println(exp);

}

}

}

4.Create servlet which appears onclick of **viewdetails** link from login page

import java.io.\*;  
import javax.servlet.\*;  
import javax.servlet.http.\*;  
public class MyServlet2 extends HttpServlet {  
 public void doGet(HttpServletRequest request,   
 HttpServletResponse response){  
 try{  
 response.setContentType("text/html");  
 PrintWriter pwriter = response.getWriter();  
   
 //Reading cookies  
 Cookie c[]=request.getCookies();   
 //Displaying User name value from cookie  
 for(int index = 0; index<c.length; index++){  
 System.out.println(c[index].getName() +":"+c[index].getValue());  
 }  
 pwriter.print("userName: "+c[0].getValue()+"<br/>");   
 //Displaying user password value from cookie  
 pwriter.print("password: "+c[1].getValue());  
   
 for(int index = 0; index<c.length; index++){  
 c[index].setMaxAge(0);  
 response.addCookie(c[index]);  
 }  
   
   
 pwriter.close();  
 }catch(Exception exp){  
 System.out.println(exp);  
 }  
 }  
}

To check cookies

Go to view details page

Click on view site information link on browser

Click on cookies

Expand localhost folder to see list of cookies stored

In Myservlet2 , cookies have been cleared(code mentioned in red)

In browser go back to after login page and click view details again

You will see cookies cleared in browser. Check in view site information.