21/6/24

WEEK-7

Maintaining the transactional history of any user is very important. Explore the various session traking mechanism using Cookies.

ReadCookiesDemo[1].java

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
public class ReadCookiesDemo extends HttpServlet {
public void doGet(HttpServletRequest request, HttpServletRes
                                        -ponse response)
                throws ServletException, IOException {
Cookie[] cookies=null;
cookies=request.getCookies();
response.setContentType("text/html");
PrintWriter out=response.getWriter();
if(cookies!=null){
  out.println("<h2> Found Cookies Name and Value</h2>");
for(int i=0; i<cookies.length; i++){
out.print("Name:"+cookies[i].getName()+", ");
out.print("Value:"+cookies[i].getValue()+"<br/>");
    }
 } else {
out.println("<h2>No cookies founds</h2>");
    }
  }
}
```

CookiesDemo[1].java

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
public class CookiesDemo extends HttpServlet
{
public void doGet(HttpServletRequest request, HttpServletResponse
                  response) throws ServletException,
                                  IOException {
    Cookie firstName = new Cookie ("first_name", request.
                                   getParameter("first_name"));
    Cookie lastName = new Cookie ("last_name", request.
                                  getParameter("last_name"));

firstName.setMaxAge(60);
lastName.setMaxAge(60*60*2);
response.addCookie(firstName);
response.addCookie(lastName);
response.setContentType("text/html");
PrintWriter out = response.getWriter();
out.println("<b> Cookies are created and the cookies
             are: <b><br>");
out.println("<b>First Name </b>:" + request.getParameter
            ("first_name") + "\n" + <b>Last Name
            </b>: " + request.
            getParameter("last_name") + "\n");
}
}
```

calculator using

cookiesdemo.html

```
<html>
<body>
<form action = "CookiesDemo" method = "GET">
      First Name: <input type = "text" name = "first_name"/>
 <br><br>
      Last Name: <input type = "text" name = "last_name"/>
 <br><br>
<input type = "submit" value = "Submit" />
</form>
</body>
</html>
```

web[1].xml

```
<web-app>
    <servlet>
      <servlet_name> cookies </servlet_name>
      <servlet_class> CookiesDemo </servlet_class>
    </servlet>
    <servlet>
      <servlet_name> cookies1 </servlet_name>
      <servlet_class> ReadCookiesDemo </servlet_class>
   </servlet>
     <servlet_mapping>
     <servlet_name> cookies </servlet_name>
     <url_pattern> /CookiesDemo </url_pattern>
   </servlet_mapping>
   <servlet_mapping>
       <servlet_name> cookies1 </servlet_name>
       <url_pattern> /ReadCookiesDemo </url_pattern>
   </servlet_mapping>
     </web-app>
```

Output:

Cookies are created and the cookies are:

First Name: rama Last Name: krishna

calculator cost.

2/11/22

WEEK-8

Maintaining the transactional history of any user is very important. Explore the various session tracking mechanism using Sessions.

SessionTrack[1].java

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.util.*;
public class SessionTrack extends HttpServlet {
public void doGet(HttpServletRequest request, HttpServletResponse
        response)throws ServletException, IOException {
HttpSession s1= request.getSession(true);
Date createTime = new Date(s1.getCreationTime());
Date lastAccessTime = new Date(s1.getLastAccessedTime());
Integer visitCount = new Integer(0);
String visitCountkey = new String("visitCount");
String userIDkey =new String("userID");
String userID= new String("ABCD");
if (s1.isNew()) {
s1.setAttribute(userIDkey, userID);
}
else {
visitCount = (Integer)s1.getAttribute(visitCountkey);
visitCount = visitCount +1;
userID= (String)s1.getAttribute(userIDkey);
}
s1.setAttribute(visitCountkey, visitCount);
response.setContentType("text/html");
```

```
PrintWriter out=response.getWriter();
out.println("<b1>session id is"+s1.getId()+
            "<br>Creation Time"+createTime+
            "<br>last access time"+lastAccessTime+
            "<br>User ID is"+userID+
            "<br>Number of visits is"+visitCount+"</b1>");
 }
}
```

web[1].xml

```
<web-app>
  <servlet>
    <servlet-name>week8</servlet-name>
    <servlet-class>SessionTrack</servlet-class>
  </servlet>
  <servlet-mapping>
     <servlet-name>week8</servlet-name>
     <url-pattern>/SessionTrack</url-pattern>
  </servlet-mapping>
</web-app>
```

Output:

session id isD40BE7E5516C94D32CD098E3AAD98078
Creation TimeFri Jun 21 17:30:40 IST 2024
last access timeFri Jun 21 17:30:54 IST 2024
User ID isABCD
Number of visits is3.