WEB TECHNOLOGIES LAB

4.write a html program for creating register and user login page

CODE:

Registration and user Login

Login.html:

\<html\>

\<head\>

\<title\>login page\</title\>

\</head\>

\<body bgcolor="cyan"\> \<center\>

\<strong\>\<h1\> AMAZON \</h1\>\</strong\>\</center\> \<right\>

\<table align="right"\>

\<tr\>

\<td\>\<h4\>user name\</td\>

\<td\>\<input type="text" \>\</td\>

\<td\>\</td\>

\</tr\>

\<tr\>

\<td\>\<h4\>password\</td\>

\<td\>\<input type="password"\>\</td\>

\<td\>\</td\>

\</tr\>

\<tr\>

\<td\>

\<form method="post" action="catalog.html" \>

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

```html
</form>

</td>

<td>

<form method="post" action="userpro.html" >

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

  

<input type="reset" value="reset"></form></td> </tr>

</table>

</body>

</html>
```

User profile page

Userpro.html:

```html
<html>

<head>

<title>

login page</title>

</head>

<body bgcolor="cyan">

<center><strong><h1> AMAZON </h1></strong></center> <form method="post"
action="catalog.html" > <right>

<table align="left">

<tr>

<td><h4>user name</td>

<td><input type="text" ></td>

<tr>

<tr>

<td><h4>password</td>

<td><input type="password"></td>
```

```html
</tr>

<tr>

<td><h4>confirm password</td>

<td><input type="password"></td>

</tr>

<tr>

<td><h4>male   

<option >

<input type="radio" name="sex" id="male"></td> <td><h4>female    

<input type="radio" name="sex" id="female" ></td>

</option>

</tr>

<tr>

<td>Address</td>

<td><textarea name="address" rows=5 cols=19>

</textarea>

</td>

<tr>

<td>

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

<td>

<input type="reset" value="reset"></td>

</tr>

</form>

</body>

</html>
```

5. Create and save an XML document on the server, which contains 10 users information

Write a program, which takes User Id as an input and returns the user details by taking the user

information from the XML document.

CODE:

User.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<employees>
<employee id="501">
<firstName>Sunil</firstName>
<lastName>Yadav</lastName>
<location>Hyd</location>
</employee>
<employee id="502">
<firstName>Trilok</firstName>
<lastName>Reddy</lastName>
<location>Chevella</location>
</employee>
<employee id="503">
<firstName>Mallikarjun</firstName>
<lastName>Tiger</lastName>
<location>Forest</location>
</employee>
<employee id="504">
<firstName>Neelima</firstName>
<lastName>Lakshmi</lastName>
<location>MP</location>
</employee>
```

```xml
<employee id="505">
<firstName>Abhi</firstName>
<lastName>Shambu</lastName>
<location>LD</location>
</employee>
<employee id="506">
<firstName>Nikitha</firstName>
<lastName>Reddy</lastName>
<location>UP</location>
</employee>
<employee id="507">
<firstName>Ashwini</firstName>
<lastName>Reddy</lastName>
<location>ADB</location>
</employee>
<employee id="508">
<firstName>Vinod</firstName>
<lastName>Kumar</lastName>
<location>MGD</location>
</employee>
<employee id="509">
<firstName>Raghu</firstName>
<lastName>Reddy</lastName>
<location>MBD</location>
</employee>
<employee id="510">
<firstName>Uma Shankar</firstName>
<lastName>Kommana</lastName>
<location>DSNR</location>
```

```
     </employee>

</employees>
```

EmployeeParsing.java

```java
import org.w3c.dom.*;

import javax.xml.parsers.*;

import java.io.*;

public class EmployeeParsing {

public static void main(String[] args)throws Exception {

//Get Document Builder

DocumentBuilderFactory factory = DocumentBuilderFactory.newInstance();

DocumentBuilder builder = factory.newDocumentBuilder();

//Build Document

Document document = builder.parse(new File("User.xml"));

Element root = document.getDocumentElement();

BufferedReader br=new BufferedReader(new InputStreamReader(System.in));

System.out.println("Enter User Id");

String id=br.readLine();

//Get all employees

NodeList nList = document.getElementsByTagName("employee");

System.out.println(root.getNodeName());

System.out.println("===========================");

for (int temp = 0; temp < nList.getLength(); temp++)

{

Node node = nList.item(temp);
```

```
System.out.println(""); //Just a separator

if (node.getNodeType() == Node.ELEMENT_NODE)

{

//Print employee's details of given id

Element eElement = (Element) node;

if(eElement.getAttribute("id").equals(id))

{

System.out.println("Employee id : " + eElement.getAttribute("id"));

System.out.println("First Name : "
+eElement.getElementsByTagName("firstName").item(0).getTextContent());

System.out.println("Last Name : "
+eElement.getElementsByTagName("lastName").item(0).getTextContent());

System.out.println("Location : "
+eElement.getElementsByTagName("location").item(0).getTextContent();  } }  }  }
```

6. Write a Servlet program using Request dispatcher which should include.

 index.html

Login.java

Welcomeservlet.java

CODE:

index.html

```
1. <form action="servlet1" method="post">
2. Name:<input type="text" name="userName"/><br/>
3. Password:<input type="password"
   name="userPass"/><br/>
4. <input type="submit" value="login"/>
```

5. </form>

Login.java

```java
1. import java.io.*;
2. import javax.servlet.*;
3. import javax.servlet.http.*;
4.
5.
6. public class Login extends HttpServlet {
7.
8. public void doPost(HttpServletRequest request,
   HttpServletResponse response)
9.        throws ServletException, IOException {
10.
11.        response.setContentType("text/html");
12.        PrintWriter out = response.getWriter();
13.
14.        String n=request.getParameter("userName");
15.        String p=request.getParameter("userPass");
16.
17.        if(p.equals("servlet")){
18.            RequestDispatcher
   rd=request.getRequestDispatcher("servlet2");
19.            rd.forward(request, response);
20.        }
21.        else{
22.            out.print("Sorry UserName or Password Error!");
23.            RequestDispatcher
   rd=request.getRequestDispatcher("/index.html");
24.            rd.include(request, response);
25.
26.            }
27.        }
```

```
28.
29.    }
```

WelcomeServlet.java

```
1. import java.io.*;
2. import javax.servlet.*;
3. import javax.servlet.http.*;
4.
5. public class WelcomeServlet extends HttpServlet {
6.
7.     public void doPost(HttpServletRequest request,
   HttpServletResponse response)
8.         throws ServletException, IOException {
9.
10.        response.setContentType("text/html");
11.        PrintWriter out = response.getWriter();
12.
13.        String n=request.getParameter("userName");
14.        out.print("Welcome "+n);
15.        }
16.
17.    }
```

7.Write a program for **Creating custom google search using sendRedirect.**

CODE:

```
1. <!DOCTYPE html>
2. <html>
3. <head>
4. <meta charset="ISO-8859-1">
5. <title>sendRedirect example</title>
6. </head>
```

```
 7. <body>
 8.
 9.
10.    <form action="MySearcher">
11.    <input type="text" name="name">
12.    <input type="submit" value="Google Search">
13.    </form>
14.
15.    </body>
16.    </html>
```

MySearcher.java

```
 1. import java.io.IOException;
 2. import javax.servlet.ServletException;
 3. import javax.servlet.http.HttpServlet;
 4. import javax.servlet.http.HttpServletRequest;
 5. import javax.servlet.http.HttpServletResponse;
 6.
 7. public class MySearcher extends HttpServlet {
 8.    protected void doGet(HttpServletRequest request,
    HttpServletResponse response)
 9.         throws ServletException, IOException {
10.
11.        String name=request.getParameter("name");
12.
    response.sendRedirect("https://www.google.co.in/#q="+na
    me);
13.    }
14.  }
```

8. Write a program on servlet cookies which should include

Index.html

Firstservlet.java

Secondservlet.java

<u>CODE:</u>

index.html
```
1. <form action="servlet1" method="post">
2. Name:<input type="text" name="userName"/><br/>
3. <input type="submit" value="go"/>
4. </form>
```

FirstServlet.java
```
1. import java.io.*;
2. import javax.servlet.*;
3. import javax.servlet.http.*;
4.
5.
6. public class FirstServlet extends HttpServlet {
7.
8.   public void doPost(HttpServletRequest request,
   HttpServletResponse response){
9.     try{
10.
11.        response.setContentType("text/html");
12.        PrintWriter out = response.getWriter();
13.
14.        String n=request.getParameter("userName");
15.        out.print("Welcome "+n);
16.
17.        Cookie ck=new Cookie("uname",n);//creating
   cookie object
18.        response.addCookie(ck);//adding cookie in the
   response
19.
20.        //creating submit button
21.        out.print("<form action='servlet2'>");
```

```
22.          out.print("<input type='submit' value='go'>");
23.          out.print("</form>");
24.
25.       out.close();
26.
27.             }catch(Exception e){System.out.println(e);}
28.          }
29.       }
```

SecondServlet.java
```
1. import java.io.*;
2. import javax.servlet.*;
3. import javax.servlet.http.*;
4.
5. public class SecondServlet extends HttpServlet {
6.
7. public void doPost(HttpServletRequest request,
   HttpServletResponse response){
8.    try{
9.
10.       response.setContentType("text/html");
11.       PrintWriter out = response.getWriter();
12.
13.       Cookie ck[]=request.getCookies();
14.       out.print("Hello "+ck[0].getValue());
15.
16.       out.close();
17.
18.             }catch(Exception e){System.out.println(e);}
19.          }
20.
21.
22.       }
```

9. Write a exception handling program in jsp which includes

index .jsp

Process .jsp

Error .jsp

CODE:

index.jsp
```
1. <form action="process.jsp">
2. No1:<input type="text" name="n1" /><br/><br/>
3. No1:<input type="text" name="n2" /><br/><br/>
4. <input type="submit" value="divide"/>
5. </form>
```

process.jsp
```
1. <%@ page errorPage="error.jsp" %>
2. <%
3.
4. String num1=request.getParameter("n1");
5. String num2=request.getParameter("n2");
6.
7. int a=Integer.parseInt(num1);
8. int b=Integer.parseInt(num2);
9. int c=a/b;
10.    out.print("division of numbers is: "+c);
11.
12.    %>
```

error.jsp
```
1. <%@ page isErrorPage="true" %>
2.
3. <h3>Sorry an exception occured!</h3>
4.
```

Exception is: <%= exception %>

10. Write a jsp scriplet tag that prints the username, Expression tag that prints the user name

<u>CODE:</u>

JSP scriptlet tag that prints the user name

index.html

6. **<html>**
7. **<body>**
8. **<form** action="welcome.jsp">
9. **<input** type="text" name="uname">
10. **<input** type="submit" value="go">**
**
11. **</form>**
12. **</body>**
13. **</html>**

Welcome .jsp

14. <html>
15. <body>
16. <%
17. String name=request.getParameter("uname");
18. out.print("welcome "+name);
19. %>
20. </form>
21. </body>
22. </html>

JSP expression tag that prints the user name

File: index.jsp

23. **<html>**
24. **<body>**
25. **<form** action="welcome.jsp">
26. **<input** type="text" name="uname">**
**

27. **<input** type="submit" value="go"**>**

28. **</form>**

29. **</body>**

30. **</html>**

File: welcome.jsp

31. **<html>**

32. **<body>**

33. <%= "Welcome "+request.getParameter("uname") %>

34. **</body>**

35. **</html>**

11. Write a jsp program for application implicit object.

CODE:

index.html

```
1. <form action="welcome">
2. <input type="text" name="uname">
3. <input type="submit" value="go"><br/>
4. </form>
```

web.xml file

```
1. <web-app>
2.
3. <servlet>
4. <servlet-name>sonoojaiswal</servlet-name>
5. <jsp-file>/welcome.jsp</jsp-file>
6. </servlet>
7.
```

8. **<servlet-mapping>**
9. **<servlet-name>**sonoojaiswal**</servlet-name>**
10.   **<url-pattern>**/welcome**</url-pattern>**
11.   **</servlet-mapping>**
12.
13.   **<context-param>**
14.   **<param-name>**dname**</param-name>**
15.   **<param-value>**sun.jdbc.odbc.JdbcOdbcDriver**</param-value>**
16.   **</context-param>**
17.
18.   **</web-app>**

welcome.jsp

1. **<**%
2.
3. out.print("Welcome "+request.getParameter("uname"));
4.
5. String driver=application.getInitParameter("dname");
6. out.print("driver name is="+driver);
7.

%**>**

12. Write a program javascript on event handling

Click

Mouseover

Mouseout

CODE:

Click Event

<html>

```html
<head> Javascript Events </head>

<body>

<script language="Javascript" type="text/Javascript">

   <!--

   function clickevent()

   {

      document.write("This is JavaTpoint");

   }

   //-->

</script>

<form>

<input type="button" onclick="clickevent()" value="Who's this?"/>

</form>

</body>

</html>
```

MouseOver Event

```html
<html>

<head>

<h1> Javascript Events </h1>

</head>

<body>

<script language="Javascript" type="text/Javascript">

   <!--
```

```
    function mouseoverevent()

    {

        alert("This is JavaTpoint");

    }

    //-->

</script>

<p onmouseover="mouseoverevent()"> Keep cursor over me</p>

</body>

</html>
```

Focus Event

```
<html>

<head> Javascript Events</head>

<body>

<h2> Enter something here</h2>

<input type="text" id="input1" onfocus="focusevent()"/>

<script>

<!--

    function focusevent()

    {

        document.getElementById("input1").style.background=" aqua";

    }

//-->
```

```
</script>

</body>

</html>
```