

LAB SESSION-10 SERVLET PROBLEMS

Pre Lab:

1. write a servlet application to print the current date and time

A) The most important advantage of using servlet is that we can use all the methods available in ~~java~~ java, the date class is available in (java.util). package

Below Program shows how the to print the current date and time. we can use simple date object with toString() to print current date and time

data.srv.java

```
package P1;
```

```
import java.io.*;
```

```
import javax.servlet.*;
```

```
public class DataSrv extends GenericServlet {  
    // implement service()
```

```
    public void service (Servlet Request req,  
        Servlet Response res) throws IOException,  
        ServletException {
```

// set response content type

res.set("Content-Type", "text/html");

// get stream obj

PrintWriter pw = res.getWriter();

// write req processing log?

java.util.Date date = new java.util.Date();

Pw.println("<h2>" + "Current date & time:"
+ date.toString() + "</h2>");

// close stream object

Pw.close();

Output:

Current date & time : Thu Oct 13 19:57:56 IST
2022

8 NLAB:-

1. write a servlet program that accepts the age and name and displays if the user is eligible for voting or not.

A) index.html:

<!doctype html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title> votes APP </title>

</head>

<body>

<form action="/voturi/" method="get">

<fieldset style="width: 200px; background-color: #e0e0e0">

<table>

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

<tr><td> Age </td><td><input type="text" name="age"> </td></tr>

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

value="check voting eligibility"></td>

</tr>

</table>

</fieldset>

</form>

</body>

</html>

waterSw.java

package P1;

import java.io.*;

import java.util.*;

import javax.servlet.*;

import javax.servlet.http.*;

public class waterSw extends HttpServlet {

public void service (HttpServletRequest req,
HttpServletResponse res) throws
IOException, ServletException {

// set response content type

res.setContentType("text/html");

// get PrintWriter obj

PrintWriter pw = res.getWriter();

// read data from page as request parameter

String name = req.getParameter("name");

int age = Integer.parseInt(req.getParameter
("age"));

if (age >= 18)

pw.println("<font color='green' size='45'
+ name + " you are eligible to vote / font>")

);

else

```
pw.println("<font color='red' size='4'>+frame+  
    \"You are not eligible to vote  
    </font>\"");
```

// add hyperlink to dynamic page

```
pw.println  
pw.println("<br><br><a href='index.html'>  
Here</a>")
```

// close the stream

```
pw.close();
```

```
}
```

```
}
```

web.xml

```
<web-app>
```

```
  <servlet>
```

```
    <servlet-name> abc </servlet-name>
```

```
    <servlet-class> voteserv </servlet-class>
```

```
  </servlet>
```

```
  <servlet-mapping>
```

```
    <servlet-name> abc </servlet-name>
```

```
    <url-pattern> /vot/ </url-pattern>
```

```
  </servlet-mapping>
```

```
</web-app>
```

2. write a java program to accept the details of teacher (Tid, name, Address) from the user and insert it into the database

A. register.html

```
<!doctype html>
```

```
<body>
```

```
<form action = "servlet/register" method = "post">
```

```
<fieldset style = "width: 20%;" background-color: #ccccff>
```

```
<h2 align = "center">Registration form</h2><table>
```

```
<tr>
```

```
<td>Tid</td>
```

```
<td><input type = "text" name = "TID"
```

```
required />
```

```
</td>
```

```
<tr>
```

```
<td>name</td>
```

```
<td><input type = "text" name = "name"
```

```
required />
```

```
</td>
```


</br>

<td> Address </td>

<td> <text area name = "address" placeholder

= "Enter address here" -- "></text area> </td>

</br>

<tr>

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

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

</tr>

</td>

</table>

</fieldset>

</form>

</body>

</form>

Register.java

package P1;

import java.io.*;

import java.sql.*;

import javax.servlet.ServletException;

import javax.servlet.http.*;

```
public class Register extends HttpServlet {
```

```
    public void doPost(HttpServletRequest request,
```

```
        HttpServletResponse response) throws  
        ServletException {
```

```
        response.setContentType("text/html");
```

```
        PrintWriter out = response.getWriter();
```

```
        int id = Integer.parseInt(request.getParameter("id"));
```

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

```
        String address = request.getParameter("address");
```

```
        try {
```

```
            // load the driver
```

```
            Class.forName("oracle.jdbc.driver.OracleDriver");
```

```
            // create connection object
```

```
            Connection con = DriverManager.getConnection("jdbc:
```

```
                "oracle:thin:@localhost:1521:xe", "local",  
                "test");
```

```
            // create the prepared statement object
```

```
            PreparedStatement ps = con.prepareStatement
```

```
                ("insert into teacher details values(?, ?, ?)");
```



```
ps.setInt(1, id);
```

```
ps.setString(2, name);
```

```
ps.setString(3, address);
```

```
int i = ps.executeUpdate();
```

```
if (i > 0)
```

```
    out.print("you are registered successfully");
```

```
catch (Exception e) {
```

```
    e.printStackTrace();
```

```
    out.close();
```

```
}
```

```
web.xml
```

```
<web-app>
```

```
    <servlet>
```

```
        <servlet-name> Register </servlet-name>
```

```
        <servlet-class> Register </servlet-class>
```

```
    </servlet>
```

```
    <servlet-mapping>
```

```
        <servlet-name> Register </servlet-name>
```

```
        <url-pattern> /servlet / Register </url-pattern>
```

```
    </servlet-mapping>
```

<welcome - file - list>

<welcome - files register.html> </welcome - file>

</welcome - file - list>

</web-app>

output:

you are
successfully
registered

input

Id: 31448

name: charan

Address: RVPM

Post Lab

1. details.html

<html>

<body>

<form action = "/servlet/register" method = "post">

name: <input type = "text" name = "username">

password: <input type = "password" name = "userpass">
>

emailId: <input type = "text" name = "useremail">
>

country :

```
<select name = "user country">
<option> india </option>
<option> srilanka </option>
<option> others </option>
</select>
<br> <br>
<input type = "submit" value = "register">
</form>
</body>
</html>
```

Register.java

```
package P1;

import java.io.*;
import javax.servlet.http.*;
import javax.servlet.*;
import javax.servlet.ServletException;
import java.sql.*;

public class Register extends HttpServlet {

    public void doPost (HttpServletRequest request,)
```


String e = request.getParameter("user_email");

String c = request.getParameter("user_country");

try {

Class.forName("oracle.jdbc.driver.OracleDriver");

PreparedStatement ps = con.prepareStatement(

"Insert into register user values (?,?,?,?)");

ps.setString(1, m);

ps.setString(2, p);

ps.setString(3, e);

ps.setString(4, c);

int i = ps.executeUpdate();

if (i > 0)

{ out.print("you are successfully registered");

catch (Exception e) {

System.out.println(e);

out.close();

}

web.xml

<web-app>

<servlet>

<servlet-class> Register / Servlet-class

</servlet>

<servlet-mapping>

<servlet-name> Register </servlet-name>

<servlet-mapping>

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

</web-app>

Input:

chavan

abc@gmail.com

india

Output:

You have successfully
registered