

Ex.No. : 05

Date : 18-04-24

SESSION TRACKING USING SERVLETS

AIM:

To Implement Concept of Session Tracking using Servlets.

PROGRAM:

HTML CODE :

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <style>
      *{          margin: 0px;          padding: 0px;          }
      .header{
        border-top: 6px solid rgb(20, 21, 21); border-bottom: 4px solid rgb(10, 214, 241);
        font-family: "Gill sans",sans-serif;          font-size: 25px;          }
      #logo,img{          margin-left: 100px;          }
      #head,h2{          margin-top: -6%;          }
      .fmbody{          margin-top: 1%;          width: 30%;          height: 250px;
        background-color: rgb(12, 163, 171);
        box-shadow: 10px 10px  rgba(0, 0, 0, 0.5);          }
      .fmbody {          display: flex;          flex-direction: column;align-items: center;          }
      .input-container {          display: flex;          gap: 20px;          }
      label{          font-size: 25px;          padding-top: 10px;          color: white;          }
      input      {          background-color: rgb(221, 237, 237);          height: 50px;          }
      input:hover{          border-radius: 8px;          }
      input:active{          color: rgb(236, 239, 244);          background-color: rgb(6, 212, 20);          }
      #sub{          width: 20%;          }
    </style>
  </head>
  <body>
    <form action="Loginservlet" method="post">
```

```

<div class="header">
    
    <center><p id="head"><b>Anna University, Chennai</b><br>Office of the
Controller of Examinations<br>Pre-Examination Monitoring Systems</p></center>
</div>
<center>
    <div class="fmbody">
        <h1>STUDENT LOGIN</h1><br>
        <label for="">Register Number</label>
        <input type="text" name="rollno"><br>
        <input type="submit" value="Login" id="sub">
    </div>
</center>
</body>
</html>

```

JAVA CODE 1 :

```

import jakarta.servlet.RequestDispatcher;
import jakarta.servlet.ServletException;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import jakarta.servlet.http.HttpSession;
import java.io.IOException;
import java.io.PrintWriter;

public class Loginservlet extends HttpServlet {
    protected void doPost(HttpServletRequest request,
        HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        String userName = request.getParameter("rollno").trim();
        if (userName == null || userName.equals("")) {
            out.print("Please enter rollno <br><br>");
            RequestDispatcher requestDispatcher

```

```

        = request.getRequestDispatcher("index.html");
requestDispatcher.include(request, response);
} else {
    HttpSession session = request.getSession();
    String id = session.getId();
    if (session.isNew()) {
        session.setAttribute("rollno", userName);
        out.println("<style>");
        out.println("");
        out.println("");
        out.println("body { background-color: rgb(181, 229, 248); }");
        out.println("#false { font-size:60px; }"
            + " #a1{\n"
            + "     border: 2px solid black;\n"
            + "     text-decoration: none;\n"
            + "     background-color: red;\n"
            + "     color: white;\n"
            + "     box-shadow: 3px 3px;\n"
            + "     padding: 5px 5px 5px 5px;\n"
            + ";margin-left:400px; } p{\n"
            + "font-size: 40px ;text-shadow: 1px 8px rgb(51, 226, 188);\n"
            + " }");
        out.println("</style>");
        out.println("<a href=\"javascript:history.back()\">"
            + "back </a>");
        out.println("<p> WELCOME </p><br>" + userName);
        out.println("<a id=\"a1\" href=\"LogoutServlet\">"
            + "Log Out </a>");
        out.println("<p>Click the button to view Mark.</p><br>");
        out.println("<a id=\"a1\" href=\"mark\">"
            + "View Mark</a><br>");
        out.print("<p>MY SESSION ID:</P>" + session.getId());
    } else {
        session.setAttribute("reg NO", userName);
        session.setAttribute("session id", id);
    }
}

```

```

        response.sendRedirect(request.getContextPath() + "/c1");
    }
}
out.close();
}
}

```

JAVA CODE 2 :

```

import jakarta.servlet.RequestDispatcher;
import jakarta.servlet.ServletException;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import jakarta.servlet.http.HttpSession;
import java.io.IOException;
import java.io.PrintWriter;
import javax.lang.model.SourceVersion;
public class c1 extends HttpServlet {
    protected void doGet(HttpServletRequest request,
        HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        HttpSession session = request.getSession();
        String rollno = (String) session.getAttribute("userName");
        out.println("<style>");
        out.println("");
        out.println("");
        out.println("body { background-color: rgb(181, 229, 248); }");
        out.println("#false { font-size:60px; }"
            + " #a1{\n"
            + "     border: 2px solid black;\n"
            + "     text-decoration: none;\n"
            + "     background-color: red;\n"
            + "     color: white;\n"
            + "     box-shadow: 3px 3px;\n"

```

```

+ "    padding: 5px 5px 5px 5px; float:right;\n"
+ "    margin-left:400px; } p{\n"
+ "    font-size: 40px ;text-shadow: 1px 8px rgb(51, 226, 188);\n"
+ "    }");

```

```

out.println("</style>");
String id = (String) session.getAttribute("rollno");
out.println("<a href=\"javascript:history.back()\">"
    + "back </a>");
out.println("<p> <marquee>welcome BACK this Session</marquee></p><br>");
out.println("<a id=\"a1\" href=\"LogoutServlet\">"
    + "Log Out </a>");
out.println("<p>Click the button to view Mark.</p><br>");
out.println("<a id=\"a1\" href=\"mark\">"
    + "View Mark</a><br>");
out.print("<p>MY SESSION ID:</P>" + session.getId());
out.close();
}
}

```

JAVA CODE 3 :

```

import jakarta.servlet.ServletException;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import jakarta.servlet.http.HttpSession;
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
public class mark extends HttpServlet {
    @Override

```

```

public void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
    response.setContentType("text/html");
    PrintWriter out = response.getWriter();
    String rollno = request.getParameter("rollno");
    try {
        HttpSession session = request.getSession(false);
        String userName = (String) session.getAttribute("rollno");
        out.println("Roll NO: " + userName + "");
        out.println("<a id=\"a1\" href=\"Logoutservlet\">"
            + "Log Out </a>");
        out.println("<a href=\"javascript:history.back()\">"
            + "back </a>");
        Class.forName("com.mysql.cj.jdbc.Driver");
        Connection conn = DriverManager.getConnection("jdbc:mysql://localhost/mysql1",
"root", "");
        PreparedStatement stmt = conn.prepareStatement("SELECT * FROM studentdetails
WHERE REGISTER_NUMBER=?");
        stmt.setString(1, userName);
        ResultSet rs = stmt.executeQuery();
        if (rs.next()) {
            out.println("<style>");
            out.println("table { font-size: 30px; border-collapse: collapse; background-color:
rgb(119, 201, 189); box-shadow: 10px 10px 15px 0px rgba(0, 0, 0, 0.5); }");
            out.println("th { background-color: rgb(9, 86, 59); color: white; }");
            out.println("body { background-color: rgb(181, 229, 248); }");
            out.println("
                #false { font-size:60px; } #a1{
                    border: 2px solid black;
                    text-decoration: none;
                    background-color: red;
                    color: white;
                    box-shadow: 3px 3px;
                    padding: 5px 5px 5px 5px;
                    float:right; }");

```

```

        out.println("</style>");
        out.println("<center>");
        out.println("<table border=\"1\" width=\"1000px\">");
        out.println("<tr><td colspan=\"5\">REGISTER NUMBER: " +
rs.getString("REGISTER_NUMBER") + "<br>Name: " + rs.getString("Name") +
"<br>BRANCH: B.E COMPUTER SCIENCE AND ENGINEERING</td></tr>");
        out.println("<tr><th>Semester</th><th>Subject
Code</th><th>Subject</th><th>Grade</th><th>Result</th></tr>");
        String semester = rs.getString("SEMESTER");
        out.println("<tr><td>" + semester + "</td><td>CCS375</td><td>WEB
TECHNOLOGIES</td><td>" + rs.getString("CCS375_WEB_TECHNOLOGIES") +
"</td><td>" + rs.getString("RESULT") + "</td></tr>");
        out.println("<tr><td>" + semester + "</td><td>CCS358</td><td>PPL</td><td>"
+ rs.getString("CCS358_PPL") + "</td><td>" + rs.getString("RESULT") + "</td></tr>");
        out.println("<tr><td>" + semester +
"</td><td>CS3691</td><td>ESIOT</td><td>" + rs.getString("CS3691_ESIOT") +
"</td><td>" + rs.getString("RESULT") + "</td></tr>");
        out.println("<tr><td>" + semester + "</td><td>CCS341</td><td>DW</td><td>" +
rs.getString("CCS341_DW") + "</td><td>" + rs.getString("RESULT") + "</td></tr>");
        out.println("<tr><td>" + semester + "</td><td>CCS364</td><td>SC</td><td>" +
rs.getString("CCS364_SC") + "</td><td>" + rs.getString("RESULT") + "</td></tr>");
        out.println("<tr><td>" + semester +
"</td><td>CCS356</td><td>OOSE</td><td>" + rs.getString("CCS356_OOSE") +
"</td><td>" + rs.getString("RESULT") + "</td></tr>");
        out.println("</table>");
        out.println("</center>");
    } else {
        out.println("<center>");
        out.println("<p style=\"font-size:40px\">NO RECORDS FOUND FOR
REGISTER NUMBER " + rollno + "</p>");
        out.println("</center>");
    }
    out.print("MY SESSION ID:" + session.getId());
} catch (SQLException | ClassNotFoundException e) {
}

```

```
}  
}
```

JAVA CODE 4:

```
import jakarta.servlet.ServletException;  
import jakarta.servlet.http.HttpServlet;  
import jakarta.servlet.http.HttpServletRequest;  
import jakarta.servlet.http.HttpServletResponse;  
import jakarta.servlet.http.HttpSession;  
import java.io.IOException;  
public class LogoutServlet extends HttpServlet {  
    @Override  
    protected void doGet(HttpServletRequest request, HttpServletResponse response)  
        throws ServletException, IOException {  
        HttpSession session = request.getSession(false);  
        if (session != null) {  
            session.invalidate();  
        }  
        response.sendRedirect("index.html");  
    }  
}
```

WEB.XML CODE:

```
<?xml version="1.0" encoding="UTF-8"?>  
<!--?xml version="1.0" encoding="UTF-8"?-->  
<web-app id="WebApp_ID" version="2.4" xmlns="http://java.sun.com/xml/ns/j2ee"  
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
    xsi:schemaLocation="http://java.sun.com/xml/ns/j2ee http://java.sun.com/xml/ns/j2ee/web-  
app_2_4.xsd">  
    <servlet>  
        <servlet-name>LoginServlet</servlet-name>  
        <servlet-class>LoginServlet</servlet-class>  
    </servlet>  
    <servlet>  
        <servlet-name>LogoutServlet</servlet-name>  
        <servlet-class>LogoutServlet</servlet-class>  
    </servlet>
```



```

<servlet>
  <servlet-name>c1</servlet-name>
  <servlet-class>c1</servlet-class>
</servlet>
<servlet-mapping>
  <servlet-name>c1</servlet-name>
  <url-pattern>/c1</url-pattern>
</servlet-mapping>
<servlet-mapping>
  <servlet-name>Loginservlet</servlet-name>
  <url-pattern>/Loginservlet</url-pattern>
</servlet-mapping>
<servlet>
  <servlet-name>mark</servlet-name>
  <servlet-class>
    mark
  </servlet-class>
</servlet>
<servlet-mapping>
  <servlet-name>mark</servlet-name>
  <url-pattern>/mark</url-pattern>
</servlet-mapping>
<servlet-mapping>
  <servlet-name>Logoutservlet</servlet-name>
  <url-pattern>/Logoutservlet</url-pattern>
</servlet-mapping>
<welcome-file-list>
  <welcome-file>index.html</welcome-file>
</welcome-file-list>
</web-app>

```

OUTPUT :



Anna University, Chennai
Office of the Controller of Examinations
Pre-Examination Monitoring Systems

STUDENT LOGIN

Register Number

822721104027

Login

SERVER RESPONSE :

FIRST – TIME LOGIN :

[back](#)

WELCOME

822721104027

Log Out

Click the button to view Mark.

View Mark

MY SESSION ID:

91EC1A1500B49A3146BD574CB80792A2

Roll NO: 822721104027 [back](#) [Log Out](#)

REGISTER NUMBER: 822721104027
 Name: MANIBALAN A
 BRANCH: B.E COMPUTER SCIENCE AND ENGINEERING

Semester	Subject Code	Subject	Grade	Result
6	CCS375	WEB TECHNOLOGIES	O	PASS
6	CCS358	PPL	O	PASS
6	CS3691	ESIOT	O	PASS
6	CCS341	DW	O	PASS
6	CCS364	SC	A	PASS
6	CCS356	OOSE	A	PASS

MY SESSION ID-91EC1A1500B49A3146BD574CB80792A2

RE --LOGIN :

[back](#)

welcome BACK this Session

[Log Out](#)

Click the button to view Mark.

[View Mark](#)

MY SESSION ID:

91EC1A1500B49A3146BD574CB80792A2

RESULT :

Thus the above program for Concept of Session Tracking using Servlets was Executed and verified Successfully.