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Class: CSE-C

Exercise 5: Profile Servlet using Session and MySQL

AIM:

Implement Profile Servlet using Http Sessions. The specifications are given below.

Code:

Index.html

```
<!DOCTYPE html>
<html>
<head>
    <title>Login</title>
    <link rel="stylesheet" href="formstyle.css">
</head>
<body>
    <div class="formblock centre" style="height:50%;">
        <form class="centre" name="login" action="./loginServlet">
            <input type='text' id="name" name="name" placeholder="Username"><br><br>
            <input type='password' id="pass" name="pass" placeholder="Password"><br><br>
            <input type="submit" value="Login">
        </form>
    </div>
</body>
</html>
```

loginServlet.java

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

public class loginServlet extends HttpServlet {
    public void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {

        response.setContentType("text/html");
        PrintWriter pw=response.getWriter();
        int flag=0;
        Connection con;
        PreparedStatement ps;
```

```

Statement st;
CallableStatement cs;
ResultSet rs;
try
{
    Class.forName("com.mysql.cj.jdbc.Driver");
    try
    {
        flag=1;
        con =DriverManager.getConnection("jdbc:mysql://localhost:3306/
profile","root","Sun@0097");

        try
        {
            String srch = "SELECT name,pass FROM data WHERE name=\""+(
String)request.getParameter("name")+"\" and pass=\""+(String)request.getParame
ter("pass")+"\"";
            st=con.createStatement();
            rs=st.executeQuery(srch);
            if(rs.next()){
                HttpSession ses=request.getSession(true);
                ses.setAttribute("uname",(String)request.getParameter(
"name"));

                pw.println("<html>");
                pw.println("<head>");
                pw.println("<link rel=\"stylesheet\" href=\"viewstyle.
css\">");

                pw.println("</head>");
                pw.println("<body>");
                pw.println("<div class=\"formblock centre\">");
                pw.println("<h1> Welcome "+(String)request.getParamet
er("name")+"</h1><br><br>");
                pw.println("<script>");
                pw.println("alert(\"login Successfully \");");
                pw.println("</script>");
                pw.println("<button style=\"height:10%;width:auto;\" o
nclick='location.replace(\"./viewProfile\");'>view profile</button>");
                pw.println("</div>");
                pw.println("</body>");
                pw.println("</html>");
            }
            else{
                pw.println("<script>");
                pw.println("alert(\"username/password invalid\");");
                pw.println("location='http://localhost:8080/LabEX5/ind
ex.html';");
                pw.println("</script>");
            }
        }
    }
}

```

```

        }
        catch(SQLException e)
        {
            pw.println("<script>");
            pw.println("alert("+e+")");
            pw.println("location='http://localhost:8080/LabEX5/index.h
tml'");
            pw.println("</script>");
        }
    }
    catch (SQLException e)
    {
        flag=2;
    }
}
catch(ClassNotFoundException e)
{
    flag=3;
}

if(flag==2)
{
    pw.println("<script>");
    pw.println("alert(\"Failed to establish connection.Try again Later
. Error Code :1 \")");
    pw.println("location='http://localhost:8080/LabEX5/index.html'");
    pw.println("</script>");
}
else if(flag==3)
{
    pw.println("<script>");
    pw.println("alert(\"Driver class not found.Error Code :0 \")");
    pw.println("location='http://localhost:8080/LabEX5/index.html'");
    pw.println("</script>");
}
pw.close();
}
}

```

viewProfile.java

```

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

```

```

public class viewProfile extends HttpServlet {
    public void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {

        response.setContentType("text/html");
        PrintWriter pw=response.getWriter();
        int flag=0;
        Connection con;
        PreparedStatement ps;
        Statement st;
        CallableStatement cs;
        ResultSet rs;
        try
        {
            Class.forName("com.mysql.cj.jdbc.Driver");
            try
            {
                flag=1;
                con =DriverManager.getConnection("jdbc:mysql://localhost:3306/
profile","root","Sun@0097");

                try
                {
                    HttpSession ses=request.getSession(false);
                    String srch = " SELECT * FROM data WHERE name='"+(String)
ses.getAttribute("uname")+"\"";
                    st=con.createStatement();
                    rs=st.executeQuery(srch);
                    if(rs.next()){
                        pw.println("<link rel=\"stylesheet\" href=\"viewstyle.
css\">");

                        pw.println("<div class=\"formblock centre\">");
                        pw.println("<table border='1px'>");
                        pw.println("<thead>");
                        pw.println("<tr><th>Attribute</th><th>Value</th></tr>"
);

                        pw.println("</thead>");
                        pw.println("<tbody>");
                        pw.println("<tr><td>Name</td><td>"+rs.getString(1)+"</
td></tr>");

                        pw.println("<tr><td>Age</td><td>"+rs.getString(3)+"</t
d></tr>");

                        pw.println("<tr><td>Date Of Birth</td><td>"+rs.getStri
ng(4)+"</td></tr>");

                        pw.println("<tr><td>Address</td><td>"+rs.getString(5)+
"</td></tr>");

                        pw.println("<tr><td>Mobile</td><td>"+rs.getString(6)+"
</td></tr>");

```

```

        pw.println("<tr><td>Occupation</td><td>" + rs.getString(
7) + "</td></tr>");
        pw.println("</tbody>");
        pw.println("</table>");
        pw.println("<button style=\"height:10%;\" onclick='loc
ation.replace(\"./logout\")';>logout</button>");
        pw.println("</div>");
    }
    else{
        pw.println("<script>");
        pw.println("alert(\"Could not load data\");");
        pw.println("location='http://localhost:8080/LabEX5/ind
ex.html'");
        pw.println("</script>");
    }
}
catch(SQLException e)
{
    pw.println("<script>");
    pw.println("alert(\"+e+\");");
    pw.println("location='http://localhost:8080/LabEX5/index.h
tml'");
    pw.println("</script>");
}
}
catch (SQLException e)
{
    flag=2;
}
}
catch(ClassNotFoundException e)
{
    flag=3;
}

if(flag==2)
{
    pw.println("<script>");
    pw.println("alert(\"Failed to establish connection.Try again Later
. Error Code :1 \");");
    pw.println("location='http://localhost:8080/LabEX5/index.html'");
    pw.println("</script>");
}
else if(flag==3)
{
    pw.println("<script>");
    pw.println("alert(\"Driver class not found.Error Code :0 \");");
    pw.println("location='http://localhost:8080/LabEX5/index.html'");

```

```

        pw.println("</script>");
    }
    pw.close();
}
}

```

Logout.java

```

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

public class logout extends HttpServlet {
    public void doGet(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException{
        HttpSession ses = request.getSession();
        PrintWriter pw=response.getWriter();
        ses.invalidate();
        pw.println("<script>");
        pw.println("alert(\"Logged out Successfully\");");
        pw.println("location='http://localhost:8080/LabEX5/index.html'");
        pw.println("</script>");
    }
}

```

Viewstyle.css

```

.formblock{
    display:flex;
    border-radius:50px;
    background:#191919;
    width:60%;
    height:90%;
}

.centre{
    margin: 0;
    position: absolute;
    top: 50%;
    left: 50%;
    -ms-transform: translate(-50%, -50%);
    transform: translate(-50%, -50%);
    color:white;
    text-align:center;
}

.centre button{
    background:none;
}

```

```

display:block;
margin:5px auto;
text-align:center;
border:2px solid green;
width:20%;
padding-top:10px;
padding-bottom: 10px;
outline:none;
color:white;
border-radius:20px;
}
.centre button:hover{
border:2px solid green;
cursor:pointer;
background: #2ecc71;
}
body{
background: #34495e;
}
table{
border:2px solid blue;
border-collapse:collapse;
margin-left :auto;
margin-right :auto;
transform: translateY(100%);
table-layout:auto;
width:60%;
color:white;
}
thead
{
background:none;
}
td{
margin-left :auto;
margin-right: auto;
padding-left: 15px;
border:2px solid blue;
border-collapse:collapse;
background:none;
}

td:hover
{
background:#2ecc71 ;
}

```

Formstyle.css

```
.formblock{
  display:flex;
  border-radius:50px;
  background:#191919;
  width:30%;
  height:90%;
  text-align:center;
}

.centre{
  margin: 0;
  position: absolute;
  top: 50%;
  left: 50%;
  -ms-transform: translate(-50%, -50%);
  transform: translate(-50%, -50%);
  color:white;
}

.centre input[type='text'],.centre input[type='number'],.centre input[type='password'],.centre input[type='date'],.centre textarea,.centre input[type='submit']{
  background:none;
  display:block;
  margin:5px auto;
  text-align:center;
  border:2px solid blue;
  width:110%;
  transform:translateX(-6%);
  padding-top:10px;
  padding-bottom: 10px;
  outline:none;
  color:white;
  border-radius:20px;
}

body{
  background: #34495e;
}

.centre input[type='text']:focus,.centre input[type='number']:focus,.centre input[type='date']:focus,.centre textarea:focus,.centre input[type='password']:focus{
  width:130%;
  transform:translateX(-12%);
}

.slct{
  background:none;
```



```

display:block;
margin:5px auto;
text-align-last:center;
border:2px solid blue;
width:110%;
transform:translateX(-6%);
padding-top:10px;
padding-bottom: 10px;
outline:none;
color:white;
border-radius:20px;
}
.slct option{
background: none;
color:black;
}
}
.centre input[type='submit']{
border:2px solid green;
width:50%;
}

.centre input[type='submit']:hover{
border:2px solid green;
cursor:pointer;
background: #2ecc71;
}
.centre input[type='button']{
background:none;
display:block;
margin:5px auto;
text-align:center;
border:2px solid green;
width:50%;
padding-top:10px;
padding-bottom: 10px;
outline:none;
color:white;
border-radius:20px;
}
.centre input[type='button']:hover{
border:2px solid green;
cursor:pointer;
background: #2ecc71;
}
}

```

Web.xml

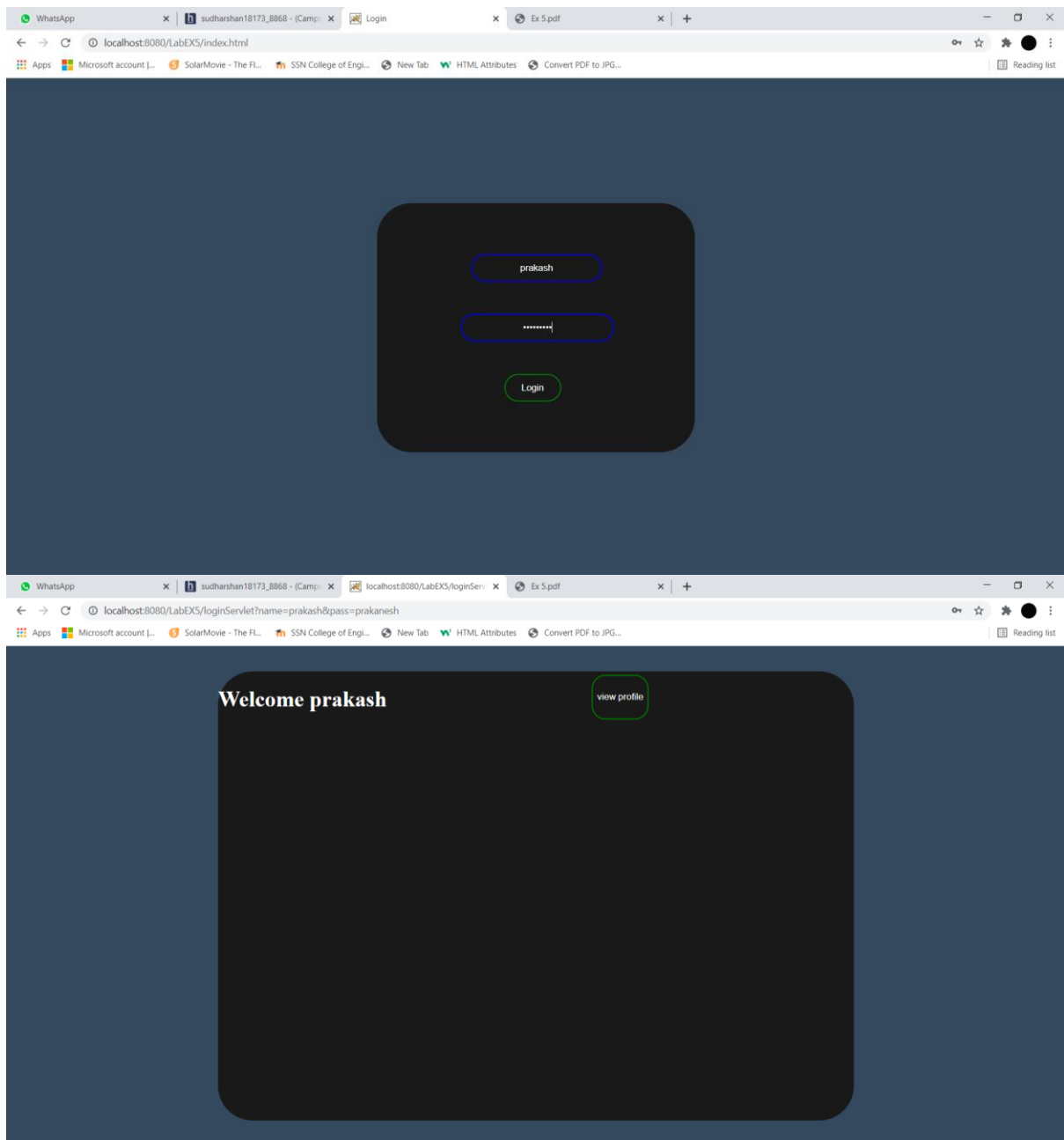
```
<web-app>
```

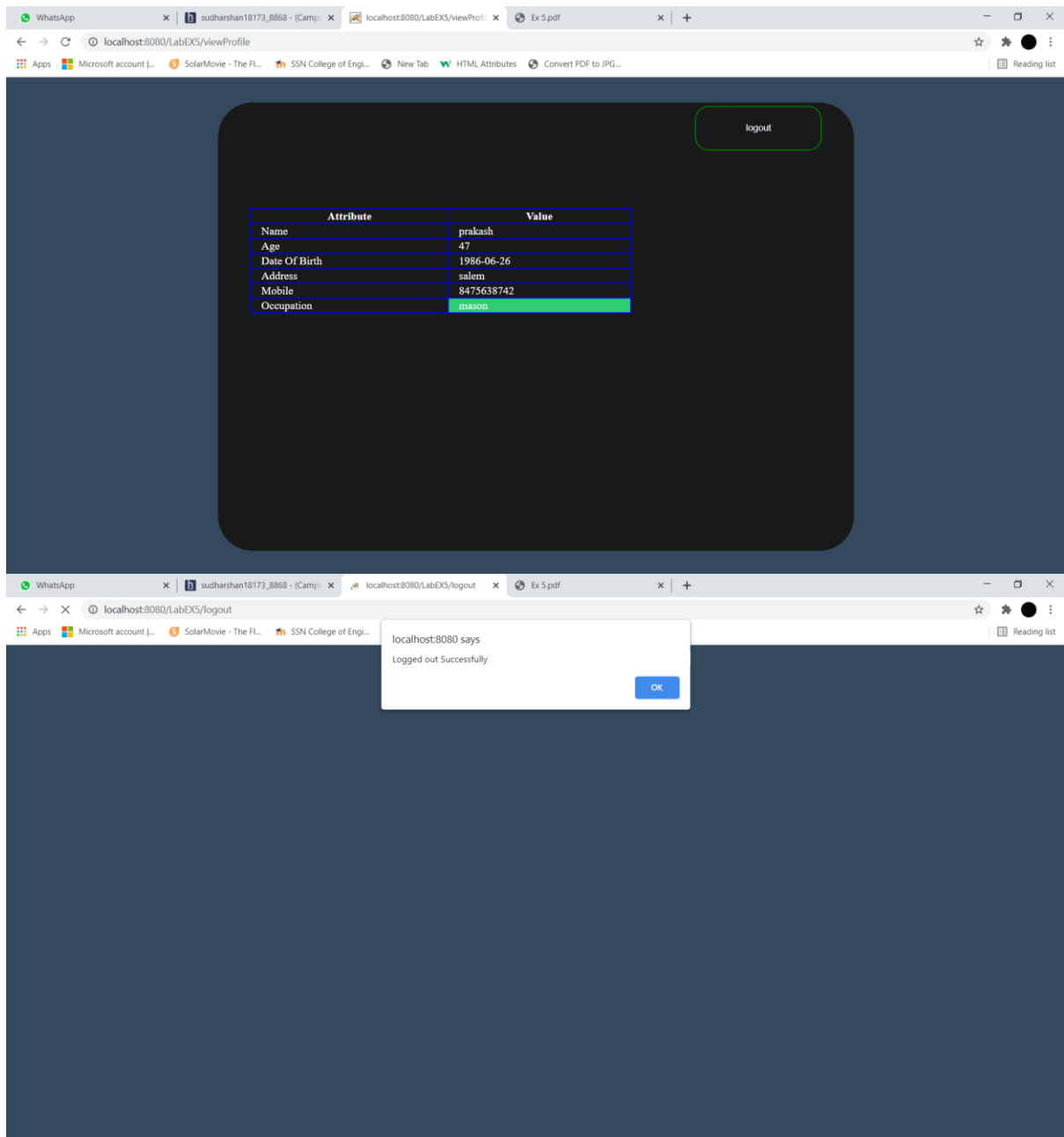
```
<servlet>
  <servlet-name>loginServlet</servlet-name>
  <servlet-class>loginServlet</servlet-class>
</servlet>
<servlet-mapping>
  <servlet-name>loginServlet</servlet-name>
  <url-pattern>/loginServlet</url-pattern>
</servlet-mapping>

<servlet>
  <servlet-name>viewProfile</servlet-name>
  <servlet-class>viewProfile</servlet-class>
</servlet>
<servlet-mapping>
  <servlet-name>viewProfile</servlet-name>
  <url-pattern>/viewProfile</url-pattern>
</servlet-mapping>

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

Output Screenshots:





Learning Outcome:

- Learnt how to create a new session
- Learnt how to handle JDBC with java
- Learnt on creating attributes in http session and on how to access them on a different servlet.
- Learnt how to invalidate a session.