

## ASSINGMENT-4

### UCS 1601 – INTERNET PROGRAMMING

NAME:Yasir Manzoor Itoo

REG NO:185001203

### SERVLET TO COMPUTE THE GROSS PAY OF EMPLOYEES

*HTML Code:index.html*

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" >
<meta name="viewport" content="width=device-width, initialscale=1.0">
<title>Form</title>
<link href="style.css" rel="stylesheet" type="text/css" />
</head>
<body>
  <br><br><h1>FORM</h1>
  <form action="MyServlet" method="POST">
    <table>
      <tr>
        <td>Enter Employee Id:</td>
        <td><input type="text" name="eid" id="eid"></td>
      </tr>
      <tr>
        <td>Enter Employee name:</td>
        <td><input type="text" name="ename" id="ename"> </td>
      </tr>
    </table>
  </form>
</body>
```

```

<tr>
  <td>Enter Designation: </td>
  <td>
    <select name="des" id="des" required>
      <option value="None">--Select one of the below--</option>
      <option value="Manager">Manager</option>
      <option value="Employee">Employee</option>
      <option value="Clerk">Clerk</option>
      <option value="receptionist">Receptionist</option>
    </select>
  </td>
</tr>
<tr>
  <td>Enter department:</td>
  <td>
    <select name="dept" id="dept" required>
      <option value="None">--Select one of the below--</option>
      <option value="Production">Production</option>
      <option value="R&D">R&D</option>
      <option value="Accounting">Accounting</option>
      <option value="Marketing">Marketing</option>
      <option value="HR">HR</option>
    </select>
    <br>
    <p id="dept"></p>
  </td>
</tr>
<tr>
  <td>Enter Basic Salary:</td>
  <td><input type="text" name="salary" id="salary"> </td>
</tr>
<tr>

```

```

<td><label for="phone">Contact Number:</label></td>

<td><input type="tel" id="phone" name="phone" pattern="[0-9]{10}"
required></td>

</tr>

<tr>

<td><label for="addr">Address: </label> </td>

<td><textarea type="text" id="addr" name="address"
required ></textarea></td>

</tr>

<tr>

<td><label for="dob">Date Of Birth:</label></td>

<td><input type="date" id="dob" name="dob" required></td>

</tr>

<tr>

<td><label for="gender">Gender:</label></td>

<td>

<input type="radio" id="male" name="gender" value="male" >
<label for="Male">Male</label> &nbsp;

<input type="radio" id="female" name="gender" value="female">
<label for="Female">Female</label> &nbsp;

<input type="radio" id="other" name="gender" value="other">
<label for="Other">Other</label> <br>

</td>

</tr>

<tr>

<td>Marital Status: </td>

<td>

<select name="mat" id="mat" required>

<option value="None">--Select one of the below--</option>

<option value="Single">Single</option>

<option value="Married">Married</option>

<option value="Divorced">Divorced</option>


```

```

<option value="Widowed">Widowed</option>
</select>

<br>

<p id="demo" class="small"></p>
</td>
</tr>

    <tfoot>

<tr>

<th><input type="submit" id="submit" value="Submit"
onclick="display()"></th>

<th><input type="reset" onclick="ResetFunc()"><br><p id="res"
class="small"></p></th>

</tr>

</tfoot>

</table>

</form>

</body>

</html>

```

### ***CSS STYLE SHEETS :***

```

form{
font-size: 19px;
}

h1 {
text-align: center;
font-size: 40px;
text-shadow: 2px 2px #696969;
}

table,td,th{

```

```
margin-top: 30px;
margin-left: auto;
margin-right: auto;
width: 60%;
border: 1px solid black;
font-weight: bold;
font-size: 19px;
}
td{
padding: 30px;
text-align: left;
}
th{
height: 60px;
padding: 40px;
text-align: center;
font-size: 20px;
}
input[type=text],select,input[type=tel]
{
width: 300px;
padding: 12px 17px;
margin: 8px 0;
box-sizing: border-box;
border-radius: 4px;
font-size: 15px;
}
textarea[type=text]
{
height: 100px;
width: 300px;
```

```
padding: 12px 17px;
margin: 8px 0;
box-sizing: border-box;
border-radius: 4px;
font-size: 15px;
}
```

```
input[type=submit],input[type=reset]
{
width: 150px;
padding: 12px 17px;
margin: 8px 0;
border-radius: 4px;
border: none;
font-size: 17px;
cursor: pointer;
background-color: white;
}
```

```
input[type=date]
{
padding: 5px 8px;
border-radius: 4px;
}
```

**JAVASCRIPT – script.js:**

```
import jakarta.servlet.http.*;
import jakarta.servlet.*;
import java.io.*;
import java.util.*;

public class MyServlet extends HttpServlet{
```

```
public void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException{
    response.setContentType("text/html");
    PrintWriter pw=response.getWriter();
    pw.println("<h1>Employee Payroll</h1><br>");
    String eid=request.getParameter("eid");
    String ename=request.getParameter("ename");
    String des=request.getParameter("des");
    String salary=request.getParameter("salary");
    String phone=request.getParameter("phone");
    String address=request.getParameter("address");
    String dob=request.getParameter("dob");
    String gender=request.getParameter("gender");
    String mat=request.getParameter("mat");

    double pay=0;
    if (des.equals("Manager"))
    {
        pay=Integer.valueOf(salary)*1.6;
    }
    else if(des.equals("Employee"))
    {
        pay=Integer.valueOf(salary)*1.3;
    }
    else if (des.equals("Clerk"))
    {
        pay=Integer.valueOf(salary)*1.2;
    }
    else
    {
        pay=Integer.valueOf(salary)*0.6;
    }
}
```

```

    }

    pw.println("<table border=1>");

    pw.println("<tr>" + "<td>Name: </td>" + "<td>" + ename + "</td>" +
"</tr>");

    pw.println("<tr>" + "<td>Id: </td>" + "<td>" + eid + "</td>" + "</tr>");

    pw.println("<tr>" + "<td>designation: </td>" + "<td>" + des + "</td>" +
+ "</tr>");

    pw.println("<tr>" + "<td>salary: </td>" + "<td>" + pay + "</td>" +
"</tr>");

    pw.println("<tr>" + "<td>Phone: </td>" + "<td>" + phone + "</td>" +
"</tr>");

    pw.println("<tr>" + "<td>DOB: </td>" + "<td>" + dob + "</td>" + "</tr>");

    pw.println("<tr>" + "<td>Gender: </td>" + "<td>" + gender + "</td>" +
"</tr>");

    pw.println("<tr>" + "<td>Marital Status: </td>" + "<td>" + mat + "</td>" +
+ "</tr>");

    }

}

```

***XML CODE: web.xml***

```

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

```

***Snapshots :***



## FORM

Enter Employee Id:	<input type="text" value="345"/>
Enter Employee name:	<input type="text" value="shalini"/>
Enter Designation:	<input type="text" value="Manager"/>
Enter department:	<input type="text" value="R&amp;D"/>
Enter Basic Salary:	<input type="text" value="8900"/>
Contact Number:	<input type="text" value="7200003801"/>
Address:	<div>284 1 st street airlines</div>
Date Of Birth:	<input type="text" value="03-03-2002"/>
Gender:	<input type="radio"/> Male <input checked="" type="radio"/> Female <input type="radio"/> Other
Marital Status:	<input type="text" value="Single"/>
Submit	Reset

---

# Employee Payroll

Name:	shalini
Id:	345
designation:	Manager
salary:	14240.0
Phone:	7200003801
DOB:	2002-03-03
Gender:	female
Marital Status:	Single

## *PATIENT MANAGEMENT SYSTEM*

### *Style sheet*

#### *Table.css:*

```
*{  
  box-sizing: border-box;  
  -webkit-box-sizing: border-box;  
  -moz-box-sizing: border-box;  
}  
body{  
  font-family: Helvetica;  
  -webkit-font-smoothing: antialiased;  
  background: rgba( 71, 147, 227, 1);  
}  
h2{  
  text-align: center;  
  font-size: 18px;  
  text-transform: uppercase;  
  letter-spacing: 1px;
```

```
color: white;
padding: 30px 0;
}

/* Table Styles */

.table-wrapper{
margin-top: 150px;
box-shadow: 0px 35px 50px rgba( 0, 0, 0, 0.2 );
}

.fl-table {
border-radius: 5px;
font-size: 12px;
font-weight: normal;
border: none;
border-collapse: collapse;
width: 100%;
max-width: 100%;
white-space: nowrap;
background-color: white;
}

.fl-table td, .fl-table th {
text-align: center;
padding: 8px;
}

.fl-table td {
border-right: 1px solid #f8f8f8;
font-size: 12px;
```

```
}
```

```
.fl-table thead th {  
  color: #ffffff;  
  background: #4FC3A1;  
}
```

```
.fl-table thead th:nth-child(odd) {  
  color: #ffffff;  
  background: #324960;  
}
```

```
.fl-table tr:nth-child(even) {  
  background: #F8F8F8;  
}
```

```
/* Responsive */
```

```
@media (max-width: 767px) {  
  .fl-table {  
    display: block;  
    width: 100%;  
  }  
  .table-wrapper:before{  
    content: "Scroll horizontally >";  
    display: block;  
    text-align: right;  
    font-size: 11px;  
    color: white;  
    padding: 0 0 10px;  
  }  
}
```

```
.fl-table thead, .fl-table tbody, .fl-table thead th {
display: block;
}
.fl-table thead th:last-child{
border-bottom: none;
}
.fl-table thead {
float: left;
}
.fl-table tbody {
width: auto;
position: relative;
overflow-x: auto;
}
.fl-table td, .fl-table th {
padding: 20px .625em .625em .625em;
height: 60px;
vertical-align: middle;
box-sizing: border-box;
overflow-x: hidden;
overflow-y: auto;
width: 120px;
font-size: 13px;
text-overflow: ellipsis;
}
.fl-table thead th {
text-align: left;
border-bottom: 1px solid #f7f7f9;
}
.fl-table tbody tr {
display: table-cell;
```

```

}

.fl-table tbody tr:nth-child(odd) {
background: none;
}

.fl-table tr:nth-child(even) {
background: transparent;
}

.fl-table tr td:nth-child(odd) {
background: #F8F8F8;
border-right: 1px solid #E6E4E4;
}

.fl-table tr td:nth-child(even) {
border-right: 1px solid #E6E4E4;
}

.fl-table tbody td {
display: block;
text-align: center;
}
}

.button{width:20%;border:3px solid black;border-radius: 8px;}

```

### *UpdateStyle.css*

```

*{
box-sizing: border-box;
-webkit-box-sizing: border-box;
-moz-box-sizing: border-box;
}

h2{margin-top:25px;}

body{
text-align:center;

```

```

font-size:22px;
font-family:Calibri;
background: rgba( 71, 147, 227, 1);
}
form{
border:4px solid black;
margin:auto;width:400px;
text-align:left;
padding:20px;
border-radius:20px;
box-shadow: 0px 35px 50px rgba( 0, 0, 0, 0.2 );
}
.field{
float:right;
margin-right:10px;
border:3px solid black;
border-radius: 8px;
}

.button{width:20%;border:3px solid black;border-radius: 8px;}
.field,select{width:165px;height:25px;}

```

***Html code :***

***Index.html***

```

<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">

```

```
<title> Login Page </title>
<style>
*{
box-sizing: border-box;
-webkit-box-sizing: border-box;
-moz-box-sizing: border-box;
}
h2{margin-top:25px;}
body{
text-align:center;
font-size:22px;
font-family:Calibri;
background: rgba( 71, 147, 227, 1);
}
form{
border:4px solid black;
margin-top:150px;margin-left:auto;margin-right:auto;width:400px;
text-align:left;
padding:40px;
border-radius:20px;
box-shadow: 0px 35px 50px rgba( 0, 0, 0, 0.2 );
}
.field{
float:right;
margin-right:10px;
border:3px solid black;
}
.button{width:20%;border:3px solid black;}
.field,select{width:165px;height:25px;}
</style>
```



```

</head>

<body>

<center> <h1> Hospital Admin Login </h1> </center>

<form>

<div>

<label>Username </label>

<input class="field" type="text" placeholder="" name="username" id =
"uname" value = ""><br><br>

<label>Password </label>

<input class="field" type="password" placeholder="" name="password" id =
"pass" value = ""><br><br>

<!-- <button onclick="authenticate();">Login</button> -->

<center><input class="button" type="submit" value="Login"
onclick="authenticate();"></center>

</div>

</form>

<script>

function authenticate()
{
var username = "yasir";
var password = "1234";
var entereduser = document.getElementById("uname").value;
var enteredpass = document.getElementById("pass").value;
if(entereduser.localeCompare(username)==0 &&
enteredpass.localeCompare(password)==0)
{
//window.alert("valid Username and Password");
// location.href="options.html";
window.open('http://localhost:8080/Ex4b/dbervlet');
// window.open('options.html');
}
}

```

```
else
{
window.alert("Invalid Username or Password");
clear();
}
}

function clear()
{
document.getElementById("uname").innerHTML="";
document.getElementById("pass").innerHTML="";
}

</script>
</body>

</html>
```

### ***Options.html***

```
<html>
<head>
<style>
*{
box-sizing: border-box;
-webkit-box-sizing: border-box;
-moz-box-sizing: border-box;
}
h2{margin-top:200px;}
body{
text-align:center;
font-size:22px;
```

```
font-family:Calibri;
-webkit-font-smoothing: antialiased;
background: rgba( 71, 147, 227, 1);
}
div{
border:3px solid black;
margin:auto;width:300px;
text-align:left;
border-radius:20px;
box-shadow: 0px 35px 50px rgba( 0, 0, 0, 0.2 );
}

</style>
</head>
<body>
<h2>Patient Management System</h2>
<h3>Patient Details</h3>
<div>
<ol>
<li><a href="add.html">Add record</a></li>
<li><a href="update.html">Update record</a></li>
<li><a href="delete.html">Delete record</a></li>
<li><a href="http://localhost:8080/Ex4b/viewServlet">View
record</a></li>
<li><a href="search.html">Search record</a></li>
</ol>
</div>
</body>
</html>
```

### ***Search.html***

```
<html>
```

```
<head>
<style>
*{
box-sizing: border-box;
-webkit-box-sizing: border-box;
-moz-box-sizing: border-box;
}
h2{margin-top:25px;}
body{
text-align:center;
font-size:22px;
font-family:Calibri;
background: rgba( 71, 147, 227, 1);
}
form{
border:4px solid black;
margin:auto;width:400px;
text-align:left;
padding:20px;
border-radius:20px;
box-shadow: 0px 35px 50px rgba( 0, 0, 0, 0.2 );
}
.field{
float:right;
margin-right:10px;
border:3px solid black;
border-radius: 8px;
}

.button{width:20%;border:3px solid black;border-radius: 8px;}
.field,select{width:165px;height:25px;}
```

```

</style>
</head>
<body>
<h2>Patient Management System</h2>
<h3>Search Patient Entry</h3>
    <form method="get" action="http://localhost:8080/Ex4b/searchServlet">
<br><br><label for="pid">Patient ID</label>
<input class="field" type="Number" id="pid" name="pid" required>
<br><br><center><input class="button" type="submit"
value="Search"></center>
    </form>
</body>
</html>

```

### ***Update.html***

```

<html>
<head>
<style>
*{
box-sizing: border-box;
-webkit-box-sizing: border-box;
-moz-box-sizing: border-box;
}
h2{margin-top:25px;}
body{
text-align:center;
font-size:22px;
font-family:Calibri;
background: rgba( 71, 147, 227, 1);
}
form{
border:4px solid black;

```

```

margin:auto;width:400px;
text-align:left;
padding:20px;
border-radius:20px;
box-shadow: 0px 35px 50px rgba( 0, 0, 0, 0.2 );
}
.field{
float:right;
margin-right:10px;
border:3px solid black;
border-radius: 8px;
}

.button{width:20%;border:3px solid black;border-radius: 8px;}
.field,select{width:165px;height:25px;}
</style>
</head>
<body>
<h2>Patient Management System</h2>
<h3>Update Patient Entry</h3>
    <form method="get" action="http://localhost:8080/Ex4b/updateServlet">
<br><br><label for="pid">Patient ID</label>
<input class="field" type="text" id="pid" name="pid" required>
<br><br><center><input class="button" type="submit"
value="Update"></center>
    </form>
</body>
</html>

```

### ***Delete.html***

```

<html>
<head>

```

```
<style>
*{
box-sizing: border-box;
-webkit-box-sizing: border-box;
-moz-box-sizing: border-box;
}
h2{margin-top:25px;}
body{
text-align:center;
font-size:22px;
font-family:Calibri;
background: rgba( 71, 147, 227, 1);
}
form{
border:4px solid black;
margin:auto;width:400px;
text-align:left;
padding:20px;
border-radius:20px;
box-shadow: 0px 35px 50px rgba( 0, 0, 0, 0.2 );
}
.field{
float:right;
margin-right:10px;
border:3px solid black;
border-radius: 8px;
}

.button{width:20%;border:3px solid black;border-radius: 8px;}
.field,select{width:165px;height:25px;}
</style>
```

```
</head>

<body>

<h2>Patient Management System</h2>

<h3>Delete Patient Entry</h3>

    <form method="get" action="http://localhost:8080/Ex4b/deleteServlet">

<label for="pid">Patient ID</label>

<input class="field" type="text" id="pid" name="pid" required>

<br><br><center><input class="button" type="submit"
value="Remove"></center>

    </form>

</body>

</html>
```

### ***Add.html***

```
<html>

<head>

<style>

*{

box-sizing: border-box;

-webkit-box-sizing: border-box;

-moz-box-sizing: border-box;

}

h2{margin-top:25px;}

    body{

text-align:center;

font-size:22px;

font-family:Calibri;

background: rgba( 71, 147, 227, 1);

}

    form{

border:4px solid black;

margin:auto;width:400px;
```



[illegible]



```

public void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {

response.setContentType("text/html");

PrintWriter pw=response.getWriter();

int flag=0;

JDBC_CON db=new JDBC_CON();

db.establish();

flag=db.valid();

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/ex4sql/index.html'");

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

}

else if(flag==3)

{

pw.println("<script>");

pw.println("alert(\"Driver class not found! \");");

//pw.println("location='http://localhost:8080/ex4sql/index.html'");

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

}

else

{

pw.println("<script>");

// pw.println("alert(\"Connection esablished successfully! \");");

pw.println("location='http://localhost:8080/Ex4b/options.html'");

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

}

}

}

```

```
}
```

```
class JDBC_CON{  
    Connection con;  
    PreparedStatement ps;  
    Statement st;  
    CallableStatement cs;  
    ResultSet rs;  
    int flag;  
    public void establish(){  
        try  
        {  
            Class.forName("com.mysql.cj.jdbc.Driver");  
            try  
            {  
                flag=1;  
                con  
                =DriverManager.getConnection("jdbc:mysql://localhost:3306/mysql","root"  
                ,"root");  
            }  
            catch (SQLException e)  
            {  
                flag=2;  
            }  
        }  
        catch(ClassNotFoundException e)  
        {  
            flag=3;  
        }  
    }  
    public int valid(){
```

```
return flag;
}
}
```

INSERT.java

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

public class insert 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;

        Statement st;

        ResultSet rs;

        try
        {
            Class.forName("com.mysql.cj.jdbc.Driver");

            try
            {
                flag=1;

                con
                =DriverManager.getConnection("jdbc:mysql://localhost:3306/patientdb","r
oot","root");

                //TABLE COLUMNS IN THIS VIEW : Name, age, ID, gender, address, marital status,
                Date of Visit
```

```

//DB SCHEMA :
[PAT_ID ,PAT_NAME ,PAT_AGE ,PAT_GENDER ,PAT_ADDR ,PAT_MARITAL ,PAT_DOV]

try
{

String sql = "INSERT INTO patient values (?, ?, ?, ?, ?, ?, ?)";
PreparedStatement statement = con.prepareStatement(sql);
statement.setInt(1, Integer.parseInt(request.getParameter("pid")));
statement.setString(2, request.getParameter("pname"));
statement.setInt(3, Integer.parseInt(request.getParameter("age")));
statement.setString(4, request.getParameter("gender"));
statement.setString(5, request.getParameter("addr"));
statement.setString(6, request.getParameter("marital"));
statement.setDate(7,
java.sql.Date.valueOf(request.getParameter("dov")));
statement.execute();
pw.println("<script>");
pw.println("alert(\"Inserted Successfully! Click ok to view table contnts\n\");");
pw.println("location='http://localhost:8080/Ex4b/viewServlet';");
pw.println("</script>");

}
catch(SQLException e)
{
pw.println("<script>");
pw.println("alert(\"Insert Failed! Try Again! "+e+" \");");
pw.println("location='http://localhost:8080/Ex4b/options.html';");
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 flag: 2 \");");
pw.println("location='http://localhost:8080/Ex4b/options.html'");
pw.println("</script>");
}
else if(flag==3)
{
pw.println("<script>");
pw.println("alert(\"Driver class not found.Error Code :0 flag: 3\");");
pw.println("location='http://localhost:8080/Ex4b/options.html'");
pw.println("</script>");
}
pw.close();
}
}

```

Search.java

```

import java.sql.*;
import java.io.*;

```

```

import jakarta.servlet.*;
import jakarta.servlet.http.*;

public class search 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;

        Statement st;

        ResultSet rs;

        try
        {
            Class.forName("com.mysql.cj.jdbc.Driver");

            try
            {
                flag=1;

                con
                =DriverManager.getConnection("jdbc:mysql://localhost:3306/patientdb","r
oot","root");

                //TABLE COLUMNS IN THIS VIEW : Name, age, ID, gender, address, marital status,
                Date of Visit

                //DB SCHEMA :
                [PAT_ID ,PAT_NAME ,PAT_AGE ,PAT_GENDER ,PAT_ADDR ,PAT_MARITAL ,PAT_DOV]

                try
                {

                    String srch = "SELECT * FROM patient where "+"PAT_ID = " +
                    request.getParameter("pid")+"";

                    String cssTag="<link rel='stylesheet' type='text/css'
                    href='tableStyle.css'>";

```





```

}
catch(SQLException e)
{
pw.println("<script>");
pw.println("alert(\"Invalid Patient ID!! Try Again! "+e+" \");");
pw.println("location='http://localhost:8080/Ex4b/options.html'");
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 flag: 2 \");");
pw.println("location='http://localhost:8080/Ex4b/options.html'");
pw.println("</script>");
}
else if(flag==3)
{
pw.println("<script>");
pw.println("alert(\"Driver class not found.Error Code :0 flag: 3\");");
pw.println("location='http://localhost:8080/Ex4b/options.html'");
}
}

```

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

UPDATE.java

```
import java.sql.*;  
import java.io.*;  
import jakarta.servlet.*;  
import jakarta.servlet.http.*;  
  
public class update 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;  
        Statement st;  
        ResultSet rs;  
        try  
        {  
            Class.forName("com.mysql.cj.jdbc.Driver");  
            try  
            {  
                flag=1;  
                con  
                =DriverManager.getConnection("jdbc:mysql://localhost:3306/patientdb","r  
oot","root");
```

```
//TABLE COLUMNS IN THIS VIEW : Name, age, ID, gender, address, marital status,
Date of Visit
```

```
//DB SCHEMA :
```

```
[PAT_ID ,PAT_NAME ,PAT_AGE ,PAT_GENDER ,PAT_ADDR ,PAT_MARITAL ,PAT_DOV]
```

```
try
```

```
{
```

```
String search = "SELECT * FROM patient where "+PAT_ID = " +
request.getParameter("pid")+";";
```

```
String cssTag="<link rel='stylesheet' type='text/css'
href='updateStyle.css'>";
```

```
st=con.createStatement();
```

```
rs=st.executeQuery(search);
```

```
if(rs.next()){
```

```
//pw.println("<tr><td>"+rs.getString(2)+"</td><td>"+rs.getString(3)+"</
td><td>"+rs.getString(1)+"</td><td>"+rs.getString(4)+"</td><td>"+rs.get
String(5)+"</td><td>"+rs.getString(6)+"</td><td>"+rs.getString(7)+"</td
></tr>");
```

```
pw.println("<html>");
```

```
pw.println("<head>"+cssTag+"</head>");
```

```
pw.println("<body>");
```

```
pw.println("<h2 Patient Management System</h2>");
```

```
pw.println("<h3>Add Patient Entry</h3>");
```

```
pw.println("<form method='get'
action='http://localhost:8080/Ex4b/updateServlet2'>");
```

```
pw.println("<label for='ename'>Patient Name</label>");
```

```
pw.println("<input class='field' type='text' id='pname'
name='pname' value='"+rs.getString(2) +"\" required>");
```

```
pw.println("<br><br><label for='pid'>Patient ID</label>");
```

```
pw.println("<input class='field' type='Number' id='pid'
name='pid' value='"+rs.getString(1) +"\" required>");
```

```
pw.println("<br><br><label for='age'>Age</label>");
```

```

pw.println("<input class=\"field\" type=\"Number\" id=\"age\"
name=\"age\" value=\""+rs.getString(3) +"\" required>");

pw.println("<br><br><label for=\"gender\">Gender</label>");

pw.println("&emsp;&emsp;&emsp;&emsp;&emsp;&emsp;&emsp;");

pw.println("<input type=\"radio\" id=\"gender\" name=\"gender\"
value=\"Male\" required>");

pw.println("<label for=\"male\">Male</label><br>");

pw.println("&emsp;&emsp;&emsp;&emsp;&emsp;&emsp;&emsp;&emsp;&emsp;&emsp;
&nbsp;");

pw.println("<input type=\"radio\" id=\"gender\" name=\"gender\"
value=\"Female\" required> ");

pw.println("<label for=\"female\">Female</label><br>");

pw.println("&emsp;&emsp;&emsp;&emsp;&emsp;&emsp;&emsp;&emsp;&emsp;&emsp;
&nbsp;");

pw.println("<input type=\"radio\" id=\"gender\" name=\"gender\"
value=\"Other\" required>");

pw.println("<label for=\"other\">Other</label>");

pw.println("<br><br><label for=\"addr\">Address</label>");

pw.println("<input class=\"field\" type=\"text\" id=\"addr\"
name=\"addr\" value=\""+rs.getString(5) +"\" required>");

pw.println("<br><br><label for=\"marital\">Marital Status</label>");

pw.println("<select class=\"field\" id=\"marital\" name=\"marital\"
value=\""+rs.getString(6) +"\" required>");

pw.println("<option value=\"Married\">Married</option>");

pw.println("<option value=\"Single\">Single</option>");

pw.println("<option value=\"Divorced\">Divorced</option>");

pw.println("<option value=\"Widowed\">Widowed</option>");

pw.println("</select>");

pw.println("<br><br><label for=\"dov\">Date of Visit</label>");

pw.println("<input class=\"field\" type=\"date\" id=\"dov\" name=\"dov\"
value=\""+rs.getString(7) +"\" required>");

pw.println("<br><br><input class=\"button\" type=\"submit\"
value=\"Update\">");

pw.println("</form></body></html>");

```

```

    }
    else
    {
        pw.println("<script>");
        pw.println("alert(\"Invalid Patient ID!\");");
        pw.println("location='http://localhost:8080/Ex4b/options.html'");
        pw.println("</script>");
    }

}

catch(SQLException e)
{
    pw.println("<script>");
    pw.println("alert(\"Invalid Patient ID!! Try Again! "+e+" \");");
    pw.println("location='http://localhost:8080/Ex4b/options.html'");
    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 flag: 2 \");");

pw.println("location='http://localhost:8080/Ex4b/options.html'");
pw.println("</script>");
}
else if(flag==3)
{
pw.println("<script>");
pw.println("alert(\"Driver class not found.Error Code :0 flag: 3\");");
pw.println("location='http://localhost:8080/Ex4b/options.html'");
pw.println("</script>");
}
pw.close();
}
}

```

### ***VIEW.java***

```

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

public class view 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;

        Statement st;

        ResultSet rs;

        try

```

```

{
Class.forName("com.mysql.cj.jdbc.Driver");

try
{
flag=1;

con
=DriverManager.getConnection("jdbc:mysql://localhost:3306/patientdb","r
oot","root");

//TABLE COLUMNS IN THIS VIEW : Name, age, ID, gender, address, marital status,
Date of Visit


//DB SCHEMA :
[PAT_ID ,PAT_NAME ,PAT_AGE ,PAT_GENDER ,PAT_ADDR ,PAT_MARITAL ,PAT_DOV]

try
{
String srch = "SELECT * FROM patient;";

String cssTag="<link rel='stylesheet' type='text/css'
href='tableStyle.css'>";

st=con.createStatement();
rs=st.executeQuery(srch);
if(rs.next()){
pw.println("<head>"+cssTag+"<h2>Patient Database</h2>"+ "</head>");
pw.println("<div class='table-wrapper'>");
pw.println("<table class='fl-table' border='1px'>");
pw.println("<thead>");
pw.println("<tr><th>Name</th><th>Age</th><th>ID</th><th>Gender</th><th>
Address</th><th>Marital status</th><th>Date of Visit</th></tr>");
pw.println("</thead>");
pw.println("<tbody>");
do{
pw.println("<tr><td>"+rs.getString(2)+"</td><td>"+rs.getString(3)+"</td>
<td>"+rs.getString(1)+"</td><td>"+rs.getString(4)+"</td><td>"+rs.getSt

```



```

ring(5)+"</td><td>" + rs.getString(6) + "</td><td>" + rs.getString(7) + "</td><
/tr>");
}while(rs.next());
pw.println("</tbody>");
pw.println("</table></div><br><br>");

pw.println("<center><input class=\"button\" type=\"submit\"
value=\"Home\"
onclick=\"location='http://localhost:8080/Ex4b/options.html';\"></cente
r>");
pw.println("<script>");
pw.println("</script>");
}
else
{
pw.println("<script>");
pw.println("alert(\"No data exist \");");
pw.println("location='http://localhost:8080/Ex4b/options.html';");
pw.println("</script>");
}
}
catch(SQLException e)
{
pw.println("<script>");
pw.println("alert(\"Can't print table Exception: "+e+" \");");
pw.println("location='http://localhost:8080/Ex4b/options.html';");
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 flag: 2 \");");

pw.println("location='http://localhost:8080/Ex4b/options.html'");
pw.println("</script>");
//response.sendRedirect("http://localhost:8080/LabEX4/login.html");
}

else if(flag==3)

{
pw.println("<script>");

pw.println("alert(\"Driver class not found.Error Code :0 flag: 3\");");
pw.println("location='http://localhost:8080/Ex4b/options.html'");
pw.println("</script>");
//response.sendRedirect("http://localhost:8080/LabEX4/login.html");
}

pw.close();
}
}

```

### ***DELETE.java***

```

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

```

```

public class delete 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;

ResultSet rs;

Statement st;

try
{
Class.forName("com.mysql.cj.jdbc.Driver");

try
{
flag=1;

con
=DriverManager.getConnection("jdbc:mysql://localhost:3306/patientdb","r
oot","root");

//TABLE COLUMNS IN THIS VIEW : Name, age, ID, gender, address, marital status,
Date of Visit


//DB SCHEMA :
[PAT_ID ,PAT_NAME ,PAT_AGE ,PAT_GENDER ,PAT_ADDR ,PAT_MARITAL ,PAT_DOV]

try
{

String srch = "SELECT * FROM patient where "+"PAT_ID = " +
request.getParameter("pid")+"";

st=con.createStatement();

rs=st.executeQuery(srch);


if(rs.next()){

String del = "Delete FROM patient where "+"PAT_ID = " +
request.getParameter("pid")+"";

st=con.createStatement();

```

```

st.executeUpdate(del);
pw.println("<script>");
pw.println("alert(\"Deleted Successfully! Click ok to view table contnts\");");
pw.println("location='http://localhost:8080/Ex4b/viewServlet';");
pw.println("</script>");
}

else{
pw.println("<script>");
pw.println("alert(\"Invalid Patient ID! Patient doesn't exist ! Try again\");");
pw.println("location='http://localhost:8080/Ex4b/options.html';");
pw.println("</script>");
}

}
catch(SQLException e)
{
pw.println("<script>");
pw.println("alert(\"Insert Failed! Try Again! "+e+" \");");
pw.println("location='http://localhost:8080/Ex4b/options.html';");
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 flag: 2 \");");
pw.println("location='http://localhost:8080/Ex4b/options.html'");
pw.println("</script>");
}
else if(flag==3)
{
pw.println("<script>");
pw.println("alert(\"Driver class not found.Error Code :0 flag: 3\");");
pw.println("location='http://localhost:8080/Ex4b/options.html'");
pw.println("</script>");
}
pw.close();
}
}

```

## SQL FILES

### ***Populate\_patients.sql***

```
use patientdb;
```

```
Insert into patient values(111,"Zide",22,"Male","Chennai,
India","Unmarried","2021-03-25");
```

```
Insert into patient values(222,"Zezilia",22,"Female","Chennai,
India","Married","2021-03-24");
```

### ***Displayrows.sql***

```
use patientdb;
select * from patient;
```

### ***Create\_patients.sql***

```
CREATE DATABASE IF NOT EXISTS patientdb;
use patientdb;
CREATE TABLE IF NOT EXISTS PATIENT(
PAT_ID INT NOT NULL AUTO_INCREMENT,
PAT_NAME VARCHAR(20) NOT NULL,
PAT_AGE INT NOT NULL,
PAT_GENDER VARCHAR(10) NOT NULL,
PAT_ADDR VARCHAR(100) NOT NULL,
PAT_MARITAL VARCHAR(20) NOT NULL,
PAT_DOV DATE NOT NULL,
PRIMARY KEY(PAT_ID)
);
```

### ***WEB.xml***

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

<servlet>
<servlet-name>viewServlet</servlet-name>
<servlet-class>view</servlet-class>
</servlet>
```

```
<servlet-mapping>  
<servlet-name>viewServlet</servlet-name>  
<url-pattern>/viewServlet</url-pattern>  
</servlet-mapping>
```

```
<servlet>  
<servlet-name>addServlet</servlet-name>  
<servlet-class>insert</servlet-class>  
</servlet>  
<servlet-mapping>  
<servlet-name>addServlet</servlet-name>  
<url-pattern>/addServlet</url-pattern>  
</servlet-mapping>
```

```
<servlet>  
<servlet-name>deleteServlet</servlet-name>  
<servlet-class>delete</servlet-class>  
</servlet>  
<servlet-mapping>  
<servlet-name>deleteServlet</servlet-name>  
<url-pattern>/deleteServlet</url-pattern>  
</servlet-mapping>
```

```
<servlet>  
<servlet-name>searchServlet</servlet-name>  
<servlet-class>search</servlet-class>  
</servlet>  
<servlet-mapping>  
<servlet-name>searchServlet</servlet-name>  
<url-pattern>/searchServlet</url-pattern>  
</servlet-mapping>
```

```
<servlet>
<servlet-name>updateServlet</servlet-name>
<servlet-class>update</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>updateServlet</servlet-name>
<url-pattern>/updateServlet</url-pattern>
</servlet-mapping>
```

```
<servlet>
<servlet-name>updateServlet2</servlet-name>
<servlet-class>update2</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>updateServlet2</servlet-name>
<url-pattern>/updateServlet2</url-pattern>
</servlet-mapping>
```

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