UCS1611---Internet Programming Lab

Exercise 4: Java Servlets and MySQL

Date: 16/03/2021

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Roll no: 185001202

LEARNING OBJECTIVES:

To write a servlet program which reads all form details, finds the gross pay based on basic pay and designation. The servlet returns all details (in table format to the client.

PROGRAM FILE CONTENTS:

INDEX.HTML:

```html
<!DOCTYPE html>
<html>
<head>
  <title>
    EX4-Form
  </title>
  <link rel="stylesheet" href="index-style.css">
</head>
<body>
  <h1 align = "center">
    XYZ School
  </h1>
  <form name="myform"
action="http://localhost:8080/EX4/GrossPay" method="GET"
align="center">
    EmployeeID : <input type="text" name="id"><br><br>

    Employee Name : <input type="text" name="name"><br><br>

    Designation :
    <select name="desig">
```

```html
        <option value="Principal">Principal</option>
        <option value="Professor">Professor</option>
        <option value="Associate">Associate</option>
        <option value="Assistant">Assistant</option>
        </select><br><br>


    Department :
    <select name="dept">
        <option value="Bio-Maths">Bio-Maths</option>
        <option value="Physics">Physics</option>
        <option value="Computer Science">Computer
Science</option>
        <option value="Economics">Economics</option>
        </select><br><br>

    Basic Salary : <input type="text" name="salary"><br><br>

    Phone number : <input type="tel" name="phone"
maxlength="10"><br><br>

    Address: <textarea name="addr"></textarea><br><br>

    DOB : <input type="date" name="dob"><br><br>

    Gender :
    Male: <input type="radio" name="gender" value="male">
    Female: <input type="radio" name="gender"
value="female"><br><br>

    Marital Status :
    Married: <input type="radio" name="marry"
value="married">
    Unmarried: <input type="radio" name="marry"
value="unmarried"><br><br>

    <button type="submit">Submit</button>
    <input type="button" name="reset" value="Reset">
```

```html
        </form>
</body>
</html>
```

INDEX-STYLE.CSS:

```css
body
{
   background-color:#FFFACD;
}
```

GROSS-PAY.JAVA:

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

public class GrossPay extends HttpServlet {
    public void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
            String id = request.getParameter("id");
            String name = request.getParameter("name");
            String desig = request.getParameter("desig");
            String dept = request.getParameter("dept");
            int basic =
Integer.parseInt(request.getParameter("salary"));
            String phone = request.getParameter("phone");
            String addr = request.getParameter("addr");
            String dob = request.getParameter("dob");
            String gender = request.getParameter("gender");
            String marry = request.getParameter("marry");
            int allow = 0;
            int hra = 0;
            if(desig.equals("Principal"))
            {
               hra = 10000;
               allow = 6000;
```

```java
            }
            else if(desig.equals("Professor"))
            {
               hra = 8000;
               allow = 5000;
            }
            else if(desig.equals("Associate"))
            {
               hra = 6000;
               allow = 4000;
            }
            else
            {
               hra = 4000;
               allow = 3000;
            }

            int grosspay = basic + hra + allow;

            response.setContentType("text/html");
            PrintWriter pw = response.getWriter();
            pw.println("<!DOCTYPE html>");
            pw.println("<head><title>EX4-Pay</title>");
            pw.println("<link rel=\"stylesheet\"
href=\"details-style.css\"></head>");
            pw.println("<body><h1 align =
\"center\">Employee Details</h1>");
            pw.println("<table align = \"center\">");
            pw.println("<tr><th>Employee
ID</th><td>"+id+"</td></tr>");
            pw.println("<tr><th>Employee
Name</th><td>"+name+"</td></tr>");

pw.println("<tr><th>Designation</th><td>"+desig+"</td></tr>"
);

pw.println("<tr><th>Department</th><td>"+dept+"</td></tr>");
```

```java
            pw.println("<tr><th>Phone
Number</th><td>"+phone+"</td></tr>");

pw.println("<tr><th>Address</th><td>"+addr+"</td></tr>");
            pw.println("<tr><th>Date of
Birth</th><td>"+dob+"</td></tr>");

pw.println("<tr><th>Gender</th><td>"+gender+"</td></tr>");
            pw.println("<tr><th>Marital
Status</th><td>"+marry+"</td></tr>");
            pw.println("<tr><th>Basic
Pay</th><td>"+basic+"</td></tr>");
            pw.println("<tr><th>Gross
Pay</th><td>"+grosspay+"</td></tr>");

            pw.close();
    }
}
```

DETAILS-STYLE.CSS:

```css
body
{
  background-color:#FFFACD;
}

table
{
  font-family: arial, sans-serif;
  border-collapse: collapse;
  width: 100%;
}

td, th
{
  border: 1px solid #dddddd;
  text-align: left;
  padding: 8px;
```

```css
}

tr:nth-child(even)
{
  background-color: #dddddd;
}
```

WEB.XML:

```xml
<web-app>

<servlet>

<servlet-name>GrossPay</servlet-name>

<servlet-class>GrossPay</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>GrossPay</servlet-name>

<url-pattern>/GrossPay</url-pattern>

</servlet-mapping>

</web-app>
```

OUTPUT SCREENSHOTS:

EX4-Form   ×   +

localhost:8080/EX4/

XYZ School

EmployeeID : 12345

Employee Name : Vysh

Designation : Professor

Department : Computer Science

Basic Salary : 50000

Phone number : 4756382811

Address: Lavender Apt, Hopkins street, Chennai

DOB : 09-02-2000

Gender : Male: ○ Female: ●

Marital Status : Married: ○ Unmarried: ●

Submit   Reset

EX4-Pay   ×   +

localhost:8080/EX4/GrossPay?id=12345&name=Vysh&desig=Professor&dept=Computer+Science&salary=50000&phone=4756382811&addr=Lavender+Apt%2C+Hopkins.

Employee Details

Employee ID	12345
Employee Name	Vysh
Designation	Professor
Department	Computer Science
Phone Number	4756382811
Address	Lavender Apt, Hopkins street, Chennai
Date of Birth	2000-02-09
Gender	female
Marital Status	unmarried
Basic Pay	50000
Gross Pay	63000

Exercise 4: Java Servlets and MySQL

Date: 30/03/2021
Name: S.Vyshali

Roll no: 185001202

LEARNING OBJECTIVES:

Develop a Patient Management System (PMS) in a Hospital that maintains the patient records.

PROGRAM FILE CONTENTS:

INDEX.HTML:

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1, shrink-yo-fit=no">

    <!--Bootstrap CSS-->
    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/css/
bootstrap.min.css" integrity="sha384-
TX8t27EcRE3e/ihU7zmQxVncDAy5uIKz4rEkgIXeMed4M0jlfIDPvg6uqKI2
xXr2" crossorigin="anonymous">

    <title>Patient Record Management</title>

    <link rel="stylesheet" href="static/style1.css">
    <script src="static/script1.js"></script>

  </head>

  <body>
```

```html
    <div class="box">
        <img src="static/images/user.png" alt=""  width="150"
height="150"> </img>
        <h2>LOGIN</h2>
        <form action="#">

            <div class="inputBox">
                <!--<label for="Name">User Name</label> -->
                <input type="text" id="name" name="name"
autofocus="autofocus" placeholder="USER NAME"
autocomplete="off" required><br><br>
            </div>


            <div class="inputBox">
                <!--<label for="pass">Password </label> -->
                <input type="password" id="pass" name="pass"
placeholder="PASSWORD"  autocomplete="off" required><br><br>
            </div>
            <input type="submit" class="submit-btn"
value="Login" onclick="check()">
        </form>
    </div>

  </body>

</html>
```

ADD.HTML:

```html
<!DOCTYPE html>

<html>
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1, shrink-to-fit=no">
```

```html
    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/css/
bootstrap.min.css" integrity="sha384-
TX8t27EcRE3e/ihU7zmQxVncDAy5uIKz4rEkgIXeMed4M0jlfIDPvg6uqKI2
xXr2" crossorigin="anonymous">

    <link rel="stylesheet" href="static/style2.css">
    <link rel="stylesheet" href="static/style3.css">

    <title>Welcome</title>
  </head>

  <body>
    <div class="nav-bar">
      <h2>PATIENT DETAILS</h2>
      <div class="bar">
        <ul>
          <li>
            <a href="add.html"><div class="add">Add
Record</div></a>
          </li>
          <li>
            <a href="update.html"><div class="upd">Update
Record</div></a>
          </li>
          <li>
            <a href="del.html"><div class="del">Delete
Record</div></a>
          </li>
          <li>
            <a
href="http://localhost:8080/Project3/view"><div
class="vew">View Record</div></a>
          </li>
          <li>
            <a href="search.html"><div class="ser">Search
Record</div></a>
          </li>
```

```html
                </ul>
            </div>
        </div>

        <div class = "form-bg">
            <br><br><h1>HOSPITAL REGISTERATION FORM</h1>

            <form name="form1" method="POST"
action="http://localhost:8080/Project3/AddRecord">

                <table class="tb">
                    <thead>
                        <tr>
                            <th colspan = "2"> REGISTER WITH US</th>
                        </tr>
                    </thead>

                    <tr>
                        <td><label for="name">Name:</label> </td>
                        <td><input type="text" id="name" name="name"
pattern="[a-zA-Z]{3,225}" 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="age">Age: </label> </td>
                        <td><input type="text" id="age" name="age"
required>
                        </td>
                    </tr>

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

```html
            <td><input type="radio" id="male" name="gender"
value="Male">
            <label for="Male">Male</label>  
            <input type="radio" id="female" name="gender"
value="Female">
            <label for="Female">Female</label>  
            <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>
          </select>
          <br>
        </td>
        </tr>

        <tr>
          <td><label for="dov">Date Of Visit :</label></td>
          <td><input  type="date" id="dov" name="dov"
required></td>
        </tr>

        <tr>
          <td><label for="phone">Phone Number: </label></td>
          <td><input type="tel" id="phone" name="Contact"
required min=10 PATTERN=[0-9]{10}></td>
        </tr>

        <tfoot>
```

```html
            <tr>
                <th><input type="submit" id="submit"
value="Submit"></th>
                <th><input type="reset"
onclick="resetFunc()"><br><p id="res"
class="small"></p></th>
            </tr>
        </tfoot>


    </table>


  </form>


    </div>
  </body>
</html>
```

DEL.HTML:

```html
<!DOCTYPE html>

<html>
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1, shrink-to-fit=no">

    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/css/
bootstrap.min.css" integrity="sha384-
TX8t27EcRE3e/ihU7zmQxVncDAy5uIKz4rEkgIXeMed4M0jlfIDPvg6uqKI2
xXr2" crossorigin="anonymous">

    <link rel="stylesheet" href="static/style2.css">
    <link rel="stylesheet" href="static/style3.css">

    <title>Welcome</title>
  </head>
```

```html
<body>
  <div class="nav-bar">
    <h2>PATIENT DETAILS</h2>
    <div class="bar">
      <ul>
        <li>
          <a href="add.html"><div class="add">Add
Record</div></a>
        </li>
        <li>
          <a href="update.html"><div class="upd">Update
Record</div></a>
        </li>
        <li>
          <a href="del.html"><div class="del">Delete
Record</div></a>
        </li>
        <li>
          <a
href="http://localhost:8080/Project3/view"><div
class="vew">View Record</div></a>
        </li>
        <li>
          <a href="search.html"><div class="ser">Search
Record</div></a>
        </li>
      </ul>
    </div>
  </div>

  <div class = "form-bg">
    <br><br><h1>HOSPITAL REGISTERATION FORM</h1>

    <form name="form1" method="POST"
action="http://localhost:8080/Project3/DelRecord">

      <table class="tb">
```

```html
        <thead>
          <tr>
            <th colspan = "2"> ENTER THE ID OF
PATIENT</th>
          </tr>
        </thead>

         <tr>
            <td><label for="pid">ID:</label> </td>
            <td><input type="number" id="pid" name="pid"
required></td>
          </tr>


        <tfoot>
          <tr>
            <th><input type="submit" id="submit"
value="Submit"></th>
            <th><input type="reset"
onclick="resetFunc()"><br><p id="res"
class="small"></p></th>
          </tr>
        </tfoot>

        </table>

    </form>

  </div>

 </body>

</html>
```

HOMEPAGE.HTML:

```html
<!DOCTYPE html>

<html>
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1, shrink-to-fit=no">

    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/css/
bootstrap.min.css" integrity="sha384-
TX8t27EcRE3e/ihU7zmQxVncDAy5uIKz4rEkgIXeMed4M0jlfIDPvg6uqKI2
xXr2" crossorigin="anonymous">

    <link rel="stylesheet" href="static/style2.css">


    <title>Welcome</title>
  </head>

  <body>
    <div class="nav-bar">
      <h2>PATIENT DETAILS</h2>
      <div class="bar">
        <ul>
          <li>
            <a href="add.html"><div class="add">Add
Record</div></a>
          </li>
          <li>
            <a href="update.html"><div class="upd">Update
Record</div></a>
          </li>
          <li>
            <a href="del.html"><div class="del">Delete
Record</div></a>
          </li>
```

```html
        <li>
            <a
href="http://localhost:8080/Project3/view"><div
class="vew">View Record</div></a>
          </li>
          <li>
            <a href="search.html"><div class="ser">Search
Record</div></a>
          </li>
        </ul>
      </div>
    </div>

    <div style="justify-content: center; text-align:
center;">
      <h1  style="color: #fff; padding: 200px; font-size:
5em;">WELCOME ADMIN</h1>
    </div>

  </body>
</html>
```

SEARCH.HTML:

```html
<!DOCTYPE html>

<html>
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1, shrink-to-fit=no">

    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/css/
bootstrap.min.css" integrity="sha384-
TX8t27EcRE3e/ihU7zmQxVncDAy5uIKz4rEkgIXeMed4M0jlfIDPvg6uqKI2
xXr2" crossorigin="anonymous">
```

```html
    <link rel="stylesheet" href="static/style2.css">
    <link rel="stylesheet" href="static/style3.css">

    <title>Welcome</title>
  </head>

  <body>
    <div class="nav-bar">
      <h2>PATIENT DETAILS</h2>
      <div class="bar">
        <ul>
          <li>
            <a href="add.html"><div class="add">Add
Record</div></a>
          </li>
          <li>
            <a href="update.html"><div class="upd">Update
Record</div></a>
          </li>
          <li>
            <a href="del.html"><div class="del">Delete
Record</div></a>
          </li>
          <li>
            <a
href="http://localhost:8080/Project3/view"><div
class="vew">View Record</div></a>
          </li>
          <li>
            <a href="search.html"><div class="ser">Search
Record</div></a>
          </li>
        </ul>
      </div>
    </div>

    <div class = "form-bg">
      <br><br><h1>HOSPITAL REGISTERATION FORM</h1>
```

```html
<form name="form1" method="POST"
action="http://localhost:8080/Project3/SearchRecord">

    <table class="tb">
      <thead>
        <tr>
          <th colspan = "2"> ENTER THE ID OF
PATIENT</th>
        </tr>
      </thead>

      <tr>
        <td><label for="pid">ID:</label> </td>
        <td><input type="number" id="pid" name="pid"
required></td>
      </tr>


    <tfoot>
      <tr>
        <th><input type="submit" id="submit"
value="Submit"></th>
        <th><input type="reset"
onclick="resetFunc()"><br><p id="res"
class="small"></p></th>
      </tr>
    </tfoot>

    </table>

  </form>

  </div>

 </body>

</html>
```

UPDATE.HTML:

```html
<!DOCTYPE html>

<html>
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1, shrink-to-fit=no">

    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/css/
bootstrap.min.css" integrity="sha384-
TX8t27EcRE3e/ihU7zmQxVncDAy5uIKz4rEkgIXeMed4M0jlfIDPvg6uqKI2
xXr2" crossorigin="anonymous">

    <link rel="stylesheet" href="static/style2.css">
    <link rel="stylesheet" href="static/style3.css">

    <title>Welcome</title>
  </head>

  <body>
    <div class="nav-bar">
      <h2>PATIENT DETAILS</h2>
      <div class="bar">
        <ul>
          <li>
            <a href="add.html"><div class="add">Add
Record</div></a>
          </li>
          <li>
            <a href="update.html"><div class="upd">Update
Record</div></a>
          </li>
          <li>
            <a href="del.html"><div class="del">Delete
Record</div></a>
          </li>
```

```html
        <li>
          <a
href="http://localhost:8080/Project3/view"><div
class="vew">View Record</div></a>
        </li>
        <li>
          <a href="search.html"><div class="ser">Search
Record</div></a>
        </li>
      </ul>
    </div>
  </div>

  <div class = "form-bg">
    <br><br><h1>HOSPITAL REGISTERATION FORM</h1>

    <form name="form1" method="POST"
action="http://localhost:8080/Project3/UpdRecord">

      <table class="tb">
        <thead>
          <tr>
            <th colspan = "2"> ENTER THE ID OF
PATIENT</th>
          </tr>
        </thead>

        <tr>
          <td><label for="pid">ID:</label> </td>
          <td><input type="number" id="pid" name="pid"
required></td>
        </tr>


      <tfoot>
        <tr>
          <th><input type="submit" id="submit"
value="Submit"></th>
```

```html
            <th><input type="reset"
onclick="resetFunc()"><br><p id="res"
class="small"></p></th>
          </tr>
        </tfoot>

      </table>

    </form>

  </div>

</body>

</html>
```

STYLE1.CSS:

```css
::placeholder{
  color: #fff;
}

body{
  margin: 0px;
  padding: 0px;
  background-image: url("images/hosp.jpg");
  background-attachment: fixed;
  background-size: cover;
  font-family: Sans-Serif;
  background-size: cover;
}


.box{
  position: absolute;
  top: 50%;
  left: 50%;
  transform: translate(-50%, -50%);
```

```css
    width: 400px;
    padding: 40px;
    background:rgb(0,0,0,0.5);
    box-sizing: border-box;
    box-shadow: 0 15px 25px rgba(0,0,0,0.4);
    border-radius: 10px;
}

.box img{
    transform: translateX(60%);
}

.box h2{
    margin: 0 0 30px;
    padding: 0;
    color: #fff;
    text-align: center;
}

.inputBox{
    position: relative;
}

.inputBox input{
    width: 100%;
    padding: 10px 0;
    font-size: 16px;
    margin-bottom: 15px;
    color: #fff;
    border: none;
    border-bottom: 2px solid #fff;
    outline: none;
    background: transparent;
}

.box .inputBox label{
    position: absolute;
    top: 0;
```

```css
  left: 0;
  padding: 10px 0;
  font-size: 16px;
  color: #fff;
  cursor:pointer;
}

.submit-btn{
  transform: translateX(150%);
  background: transparent;
  border: none;
  outline: none;
  color: #fff;
  background-color: #03a9f4;
  padding: 10px 20px;
}
```

STYLE2.CSS:

```css
body
{
    margin: 0;
    padding: 0;
    font-family: 'Trebuchet MS', sans-serif;
    background: #bfd6e9;
}


.nav-bar h2{
  padding:50px 0px;
  position:relative;
  margin-left:auto;
  margin-right: auto;
  text-align: center;
  cursor: pointer;
  width: 300px;
  height: 150px;
}
```

```css
.nav-bar{
  background-color: #eee7e7;
  position: relative;
}

.nav-bar ul{
  align-items: center;
  justify-content:center;
  top:50%;
  left: 50%;
  margin: 0;
  padding: 10px 0;
  background: #fff;
  display: flex;
  border-radius: 10px;
  box-shadow: 0 10px 30px rgba(0,0,0,.5);
  transform:translate(0%, 10%);

}


.nav-bar ul li
{
  list-style: none;
  text-align: center;
  display: block;
  border-right: 1px solid rgba(0,0,0,0.2);
}

.nav-bar ul li:last-child{
  border-right: none;
}

.nav-bar ul li a{
  text-decoration: none;
  padding: 0 50px;
  display: block;
}
```

STYLE3.CSS:

```css
.form-bg h1{
  text-align : center;
  font-size: 3em;
  text-shadow: 2px 2px #d3c8c8;
  color: #030003
}

form{
  font-size: 19px;
}

table,td,th{
  margin-top: 30px;
  margin-left: auto;
  margin-right: auto;
  width: 60%;
  border: 1px solid black;
  font-weight: bold;
  color: white;
  font-size: 19px;
}

td{
  padding: 30px;
  text-align: left;
}

th{
  height: 60px;
  padding: 40px;
  text-align: center;
  font-size: 20px;
}

table, .tb{
  border: 1px solid rgba(0,0,0,0.0);
```

```css
    border-radius: 10px;
    background: rgba(0,0,0,0.3);
}

.tb th,.tb td{
    border: 1px solid rgba(0,0,0,0.0);
    color: white;
}

input[type=text],input[type=email],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;
```

```css
  cursor: pointer;
  background-color: white;
}

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

ADDRECORD.JAVA:

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


public class addRecord extends HttpServlet
{
  public void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException,
IOException
    {
      String JDBC_DRIVER = "com.mysql.jdbc.Driver";
      String DB_URL = "jdbc:mysql://localhost:3306/pat";

      String USER = "root";
      String PASS = "vysh";

      response.setContentType("text/html");
      PrintWriter pw = response.getWriter();

      String name = request.getParameter("name");
      String mobile =request.getParameter("Contact");
      String gender = request.getParameter("gender");
      int age =
Integer.parseInt(request.getParameter("age"));
```

```java
        String ms = request.getParameter("mat");
        String addr = "";
        String[] values=
request.getParameterValues("address");
        for(int i=0; i<values.length; i++ )
          addr += values[i]+" ";

        Connection conn = null;
        Statement stmt = null;

        try{
            //Open Connection
          Class.forName("com.mysql.jdbc.Driver");
          conn =
DriverManager.getConnection(DB_URL,USER,PASS);

          PreparedStatement ps= conn.prepareStatement("Insert
into Patients (Name, Age, Gender, Addr, Mstatus, Dov,
Contact)  values(?,?,?,?,?,?,?)");

          ps.setString(1, name);
          ps.setInt(2, age);
          ps.setString(3, gender);
          ps.setString(4, addr);
          ps.setString(5, ms);
          ps.setDate(6,
java.sql.Date.valueOf(request.getParameter("dov")));
          ps.setString(7, mobile);

          ps.execute();

          pw.println("<script>");
          pw.println("alert(\"Patient has been
registered...\")");

pw.println("location='http://localhost:8080/Project3/view'")
;
          pw.println("</script>");
```

```java
        }
        catch (Exception ex)
        {
            ex.printStackTrace();
        }

        pw.close();

    }

}
```

DELETERECORD.JAVA:

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


public class delRecord extends HttpServlet
{
    public void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException,
IOException
    {
        String JDBC_DRIVER = "com.mysql.jdbc.Driver";
        String DB_URL = "jdbc:mysql://localhost:3306/pat";

        String USER = "root";
        String PASS = "vysh";

        response.setContentType("text/html");
        PrintWriter pw = response.getWriter();

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

```java
        Connection conn = null;
        Statement stmt = null;

        try{
            //Open Connection
          Class.forName("com.mysql.jdbc.Driver");
          conn =
DriverManager.getConnection(DB_URL,USER,PASS);


          PreparedStatement ps= conn.prepareStatement("DELETE
FROM Patients WHERE Pid=?");
          ps.setInt(1, id);

          ps.executeUpdate();

          pw.println("<script>");
          pw.println("alert(\"Patient has been
Deleted...\")");

pw.println("location='http://localhost:8080/Project3/view'")
;
          pw.println("</script>");
        }
        catch (Exception ex)
        {
          ex.printStackTrace();
        }

        pw.close();

      }
    }
```

SEARCHRECORD.JAVA:

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

public class searchRecord extends HttpServlet{

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

    String JDBC_DRIVER = "com.mysql.jdbc.Driver";
    String DB_URL = "jdbc:mysql://localhost:3306/pat";

    String USER = "root";
    String PASS = "vysh";

    response.setContentType("text/html");
    PrintWriter out = response.getWriter();

    out.println("<html><head><meta charset='utf-8'><meta
name='viewport' content='width=device-width, initial-
scale=1, shrink-to-fit=no'>");
    out.println("<title>View Patient Records</title>");
    out.println("<link rel='stylesheet'
href='static/style2.css'><link rel='stylesheet'
href='static/style3.css'></head>");
    out.println("<body><div class='nav-bar'><h2>PATIENT
DETAILS</h2><div class='bar'><ul><li><a
href='http://localhost:8080/Project3/add.html'><div
class='add'>Add Record</div></a></li><li><a
href='http://localhost:8080/Project3/update.html'><div
class='upd'>Update Record</div></a></li><li><a
href='http://localhost:8080/Project3/del.html'><div
class='del'>Delete Record</div></a></li><li><a
```

```java
href='http://localhost:8080/Project3/view'><div
class='vew'>View Record</div></a></li><li><a
href='http://localhost:8080/Project3/search.html'><div
class='ser'>Search Record</div></a></li></ul></div></div>");

    String id = request.getParameter("pid");

    Connection conn = null;

    try{

      // Class.forName("com.mysql.jdbc.Driver");
       conn = DriverManager.getConnection(DB_URL,USER,PASS);

      // PreparedStatement ps = conn.prepareStatement("SELECT
* FROM Patients WHERE Pid=?");
        //ps.setInt(1, id);

      String search = "SELECT * FROM Patients WHERE
Pid="+id;
      Statement stmt = conn.createStatement();

      ResultSet rs = stmt.executeQuery(search);

      rs.next();

      out.println("<table><tr><th colspan = 2>PATIENT
DETAILS</th></tr>");

out.println("<tr><td>NAME</td><td>"+rs.getString("NAME")+"</
td></tr>");

out.println("<tr><td>ADDRESS</td><td>"+rs.getString("Addr")+
"</td></tr>");

out.println("<tr><td>AGE</td><td>"+rs.getInt("Age")+"</td></
tr>");
```

```java
out.println("<tr><td>GENDER</td><td>"+rs.getString("Gender")
+"</td></tr>");
        out.println("<tr><td>MARITAL
STATUS</td><td>"+rs.getString("Mstatus")+"</td></tr>");
        out.println("<tr><td>DATE OF
VISIT</td><td>"+rs.getString("Dov")+"</td></tr>");

out.println("<tr><td>CONTACT</td><td>"+rs.getString("Contact
")+"</td></tr>");
        out.println("</table>");
        out.println("</body></html>");

    }
    catch(Exception E)
    {
      E.printStackTrace();
    }

    out.close();
  }
}
```

UPDATERECORD.JAVA:

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

public class updateRecord extends HttpServlet{

  public void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException,
IOException
  {
    Connection conn = null;
```

```java
        Statement stmt = null;

        String JDBC_DRIVER = "class.mysql.jdbc.Driver";
        String DB_URL = "jdbc:mysql://localhost:3306/pat";

        String USER = "root";
        String PASS = "vysh";

        response.setContentType("text/html");
        PrintWriter out = response.getWriter();

        String id = request.getParameter("pid");

        out.println("<html><head><meta charset='utf-8'><meta
name='viewport' content='width=device-width, initial-
scale=1, shrink-to-fit=no'>");
        out.println("<title>View Patient Records</title>");
        out.println("<link rel='stylesheet'
href='static/style2.css'><link rel='stylesheet'
href='static/style3.css'></head>");
        out.println("<body><div class='nav-bar'><h2>PATIENT
DETAILS</h2><div class='bar'><ul><li><a
href='http://localhost:8080/Project3/add.html'><div
class='add'>Add Record</div></a></li><li><a
href=''http://localhost:8080/Project3/update.html''><div
class='upd'>Update Record</div></a></li><li><a
href='http://localhost:8080/Project3/del.html'><div
class='del'>Delete Record</div></a></li><li><a
href='http://localhost:8080/Project3/view'><div
class='vew'>View Record</div></a></li><li><a
href='http://localhost:8080/Project3/search.html'><div
class='ser'>Search Record</div></a></li></ul></div></div>");

        try{

            Class.forName("com.mysql.jdbc.Driver");
            conn = DriverManager.getConnection(DB_URL,USER,PASS);
```

```
        String search = "SELECT * FROM Patients WHERE
Pid="+id;

        stmt = conn.createStatement();
        ResultSet rs = stmt.executeQuery(search);

        rs.next();

        out.println("<div class = 'form-
bg'><br><br><h1>HOSPITAL REGISTERATION FORM</h1><form
name='form1' method='POST'
action='http://localhost:8080/Project3/UpdDb'>");

        out.println("<table class='tb'><thead><tr><th colspan
= '2'> UPDATE PATIENT DETAILS</th></tr></thead>");

        out.println("<input type='hidden' id='pid' name='pid'
value="+id+">");

        out.println("<tr><td><label for='name'>Name:</label>
</td><td><input type='text' id='name' name='name'
pattern='[a-zA-Z]{3,225}' value='"+rs.getString("Name")+"'
readonly></td></tr>");

        out.println("<tr><td><label for='addr'>Address:
</label> </td><td><textarea type='text' id='addr'
name='address' required>" +
rs.getString("Addr")+ "</textarea></td></tr>");

        out.println("<tr><td><label for='age'>Age: </label>
</td><td><input type='text' id='age' name='age'
value='"+rs.getInt("Age")+"' readonly></td></tr>");

        out.println("<tr><td><label
for='gender'>Gender:</label> </td><td><input type='text'
id='gender' name='gender' value='"+rs.getString("Gender")+"'
readonly></td></tr>");
```

```java
        out.println("<tr><td><label for='mat'>Marital
Status:</label> </td><td><input type='text' id='mat'
name='mat' value='"+rs.getString("Mstatus")+"'
readonly></td></tr>");


        out.println("<tr><td><label for='dov'>Date Of Visit
:</label></td><td><input  type='date' id='dov' name='dov'
value='"+rs.getDate("Dov")+"' required></td></tr>");

        out.println("<tr><td><label
for='phone'>Contact:</label> </td><td><input type='text'
id='phone' name='phone'
value='"+rs.getString("Contact")+"'></td></tr>");




        out.println("<tfoot><tr><th><input type='submit'
id='submit' value='Submit'></th></tr></tfoot>");
        out.println("</table>");
        out.println("</form>");
        out.println("</div>");
        out.println("</body>");
        out.println("</html>");
    }
    catch(Exception E)
    {
      E.printStackTrace();
    }

    out.close();
  }

}
```

UpdDB.JAVA:

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

public class UpdDb extends HttpServlet{

  public void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException,
IOException
  {
    Connection conn = null;
    Statement stmt = null;

    String JDBC_DRIVER = "class.mysql.jdbc.Driver";
    String DB_URL = "jdbc:mysql://localhost:3306/pat";

    String USER = "root";
    String PASS = "vysh";

    response.setContentType("text/html");
    PrintWriter out = response.getWriter();

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

    try{

      conn = DriverManager.getConnection(DB_URL,USER,PASS);
      PreparedStatement ps = conn.prepareStatement("UPDATE
Patients SET Addr=?, Dov=?, Contact=? WHERE Pid=?");

      ps.setString(1, request.getParameter("address"));
      ps.setString(2, request.getParameter("dov"));
      ps.setString(3, request.getParameter("phone"));
      ps.setInt(4, id);
```

```java
        ps.execute();

        out.println("<script>");
        out.println("alert(\"Patient Details Have Been
Updated...\")");

out.println("location='http://localhost:8080/Project3/view'"
);
        out.println("</script>");
    }

    catch(Exception E)
    {
      E.printStackTrace();
    }

    out.close();
  }
}
```

VIEWRECORDS.JAVA:

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


public class viewRecords extends HttpServlet
{
  public void doGet(HttpServletRequest request,
HttpServletResponse response) throws IOException,
ServletException
  {
    PrintWriter out = response.getWriter();
    response.setContentType("text/html");
```

```java
    out.println("<html><head><meta charset='utf-8'><meta
name='viewport' content='width=device-width, initial-
scale=1, shrink-to-fit=no'>");
    out.println("<title>View Patient Records</title>");
    out.println("<link rel='stylesheet'
href='static/style2.css'>");
    out.println("<link rel='stylesheet'
href='static/style3.css'></head>");
    out.println("<body><div class='nav-bar'><h2>PATIENT
DETAILS</h2><div class='bar'><ul><li><a
href='http://localhost:8080/Project3/add.html'><div
class='add'>Add Record</div></a></li><li><a
href='http://localhost:8080/Project3/update.html'><div
class='upd'>Update Record</div></a></li><li><a
href='http://localhost:8080/Project3/del.html'><div
class='del'>Delete Record</div></a></li><li><a
href='http://localhost:8080/Project3/view'><div
class='vew'>View Record</div></a></li><li><a
href='http://localhost:8080/Project3/search.html'><div
class='ser'>Search Record</div></a></li></ul></div></div>");
    out.println("<div>");

    String JDBC_DRIVER = "com.mysql.jdbc.Driver";
    String DB_URL = "jdbc:mysql://localhost:3306/pat";

    String USER = "root";
    String PASS = "vysh";


    Connection conn = null;
    Statement stmt = null;

    try
    {
        //Open Connection
        Class.forName("com.mysql.jdbc.Driver");
        conn =
DriverManager.getConnection(DB_URL,USER,PASS);
```

```java
        stmt = conn.createStatement();
        ResultSet rs = stmt.executeQuery("select * from
Patients");

        out.println("<table border=1 width=50%
height=50%>");

out.println("<tr><th>Patient_ID</th><th>Name</th><th>Age</th
><th>Gender</th><th>Address</th><th>Marital_Status</th><th>D
OV</th><th>Contact</th><tr>");

        while (rs.next())
        {
            String id = rs.getString("Pid");
            String nm = rs.getString("Name");
            int age = rs.getInt("Age");
            String g = rs.getString("Gender");
            String addr = rs.getString("Addr");
            String ms = rs.getString("Mstatus");
            String cn = rs.getString("Contact");
            out.println("<tr><td>" + id + "</td><td>" + nm +
"</td><td>" + age + "</td><td>" + g+ "</td><td>" + addr +
"</td><td>" + ms + "</td><td>" + rs.getDate("Dov") +
"</td><td>" + cn + "</td></tr>");
        }
        out.println("</table>");
        out.println("</html></body>");
        conn.close();
    }

    catch(Exception E)
    {
     E.printStackTrace();
    }

    out.close();
  }
}
```

WEB.XML:

```xml
<web-app>

<servlet>

<servlet-name>AddRecord</servlet-name>

<servlet-class>addRecord</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>AddRecord</servlet-name>

<url-pattern>/AddRecord</url-pattern>

</servlet-mapping>


<servlet>

<servlet-name>UpdRecord</servlet-name>

<servlet-class>updateRecord</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>UpdRecord</servlet-name>

<url-pattern>/UpdRecord</url-pattern>

</servlet-mapping>


<servlet>

<servlet-name>UpdDatabase</servlet-name>
```

```xml
<servlet-class>UpdDb</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>UpdDatabase</servlet-name>

<url-pattern>/UpdDb</url-pattern>

</servlet-mapping>


<servlet>

<servlet-name>DelRecord</servlet-name>

<servlet-class>delRecord</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>DelRecord</servlet-name>

<url-pattern>/DelRecord</url-pattern>

</servlet-mapping>


<servlet>

<servlet-name>ViewRecords</servlet-name>

<servlet-class>viewRecords</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>ViewRecords</servlet-name>
```
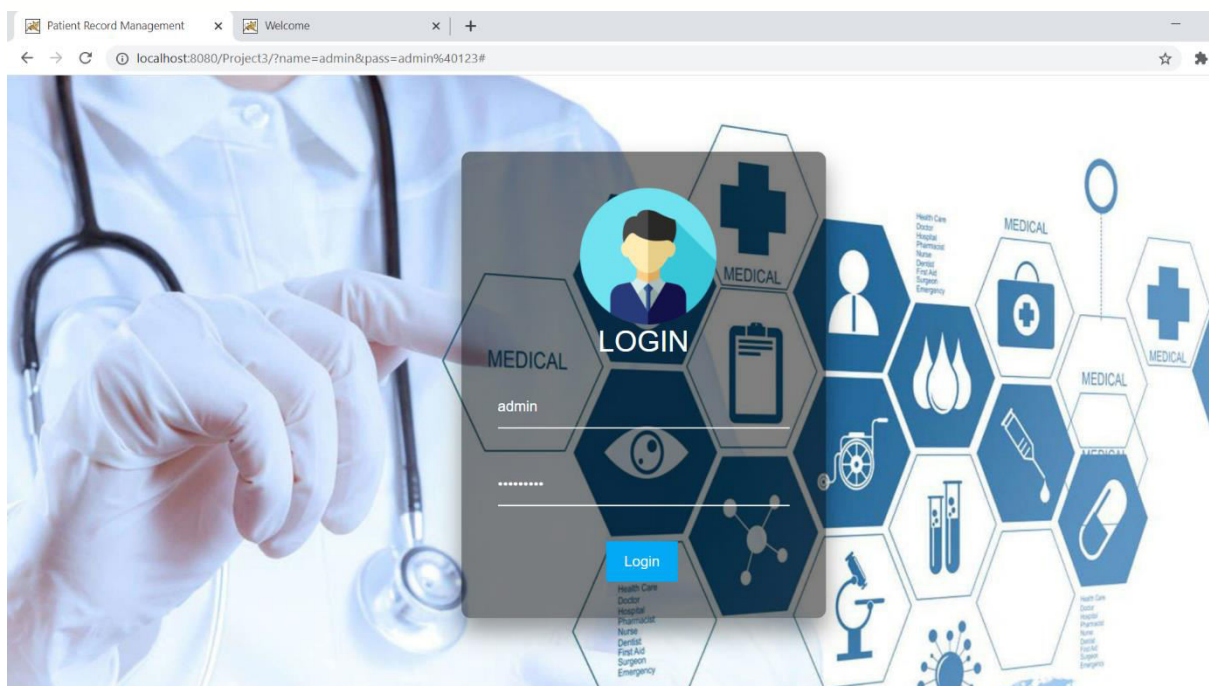
```
<url-pattern>/view</url-pattern>

</servlet-mapping>


<servlet>

<servlet-name>SerRecord</servlet-name>

<servlet-class>searchRecord</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>SerRecord</servlet-name>

<url-pattern>/SearchRecord</url-pattern>

</servlet-mapping>

</web-app>
```

OUTPUT SCREENSHOTS:

PATIENT DETAILS

Add Record | Update Record | Delete Record | View Record | Search Record

Patient_ID	Name	Age	Gender	Address	Marital_Status	DOV	Contact
2	rajesh	22	Male	12, anna nagar, chennai	Single	2021-03-17	2222222222
3	arun	33	Male	23, jaya nagar, kodambakkam	Married	2021-03-23	5555555555

PATIENT DETAILS

Add Record | Update Record | Delete Record | View Record | Search Record

Patient_ID	Name	Age	Gender	Address	Marital_Status	DOV	Contact
2	rajesh	22	Male	12, anna nagar, chennai	Single	2021-03-19	8888888888
3	arun	33	Male	23, jaya nagar, kodambakkam	Married	2021-03-23	5555555555

PATIENT DETAILS

Add Record | Update Record | Delete Record | View Record | Search Record

HOSPITAL REGISTERATION FORM

ENTER THE ID OF PATIENT

ID: 3

Submit   Reset

PATIENT DETAILS

Add Record | Update Record | Delete Record | View Record | Search Record

Patient_ID	Name	Age	Gender	Address	Marital_Status	DOV	Contact
2	rajesh	22	Male	12, anna nagar, chennai	Single	2021-03-19	8888888888

PATIENT DETAILS

Add Record | Update Record | Delete Record | View Record | Search Record

PATIENT DETAILS	
NAME	rajesh
ADDRESS	12, anna nagar, chennai
AGE	22
GENDER	Male
MARITAL STATUS	Single
DATE OF VISIT	2021-03-19
CONTACT	8888888888