**ASSIGNMENT 4: PART 1**

DESIGN A SERVLET TO COMPUTE THE GROSS PAY OF EMPLOYEES

**CODE**

Index.html

```html
<!DOCTYPE html>
<html>
<head>
    <title>Employee Registration</title>
    <meta charset="utf-8">
    <link rel="stylesheet" href="styles.css">
</head>

<body>
    <h1>Employee Registration</h1>

    <table>
        <form name="regform" id="regform" action="http://localhost:8080/employ
ee/Servlet" >
            <tr>
                <td><label for="id">Employee ID: </label></td>
                <td><input name="id" id="id" type="number" required></td>
            </tr>
            <tr>
                <td><label for="name">Employee Name: </label></td>
                <td><input name="name" id="name" type="text" required></td>
            </tr>
            <tr>
                <td><label for="designation">Designation: </label></td>
                <td><select name="designation" id="designation" required>
                    <option value="none"></option>
                    <option value="RA">Associate Professor</option>
                    <option value="TA">Research Scholar</option>
                    <option value="AP">Associate Professor</option>
                    <option value="Prof">Professor</option>
                </select></td>
            </tr>
            <tr>
                <td><label for="dept">Department: </label></td>
                <td><select name="dept" id="dept">
                    <option value="none"></option>
                    <option value="CSE">CSE</option>
                    <option value="IT">IT</option>
                    <option value="ECE">ECE</option>
```

```html
                <option value="Mech">Mech</option>
                <option value="Chem">Chem</option>
                <option value="BME">BME</option>
                <option value="EEE">EEE</option>
                <option value="Civil">Civil</option>
            </select></td>
        </tr>
        <tr>
            <td><label for="salary">Salary: </label></td>
            <td><input name="salary" id="salary" type="number" required></td>
        </tr>
        <tr>
            <td><label for="phone">Contact number: </label></td>
            <td><input name="phone" id="phone" type="tel"  required></td>
        </tr>
        <tr>
            <td><label for="address">Address: </label></td>
            <td><textarea name="address" id="address" required></textarea></td>
        </tr>
        <tr>
            <td><label for="dob">Date of Birth: </label></td>
            <td><input name="dob" id="dob" type="date" placeholder="dd/mm/yyyy"></td>
        </tr>
        <tr>
        <td><label >Gender: </label></td>
            <td><input id="male" type="radio" value="Male" name="gender"><label for="male">Male</label>
            <input id="female" type="radio" value="Female" name="gender"><label for="female">Female</label>
            <input id="other" type="radio" value="Other" name="gender"><label for="other">Other</label>
            </td>
        </tr>
        <tr>
            <td><label for="status">Marital Status: </label></td>
            <td><select name="status" id="status">
                <option value="none"></option>
                <option value="Married">Married</option>
                <option value="single">Single</option>
                <option value="single">Divorced</option>
            </select></td>
        </tr>
        <tr>
            <td><input type="submit" value="Submit" id="submit" ></td>
```

```html
            <td><input type="button" value="Reset" id="resetBtn" onclick="
myReset()"></td>
          </tr>
        </form>
    </table>
    <script src="script.js"></script>
</body>
</html>
```

Web.xml

```xml
<web-app>
    <servlet>
        <servlet-name>Servlet</servlet-name>
        <servlet-class>Servlet</servlet-class>
    </servlet>

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

Servlet.java

```java
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
public class Servlet extends HttpServlet{
    public void doGet(HttpServletRequest request, HttpServletResponse response
)
        throws ServletException, IOException{
            response.setContentType("text/html");

            PrintWriter out = response.getWriter();
            String id= request.getParameter("id");
            String name = request.getParameter("name");
            String designation = request.getParameter("designation");
            String dept = request.getParameter("dept");
            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 status = request.getParameter("status");

            int sal = Integer.parseInt(salary);
```

```java
        if ("RA".equals(designation)) {
            designation = "Research Assistant";
            sal *= 1;
        }
        else if ("TA".equals(designation)) {
            designation = "Teaching Assistant";
            sal *= 1.25;
        }
        else if ("AP".equals(designation)) {
            designation = "Associate Professor";
            sal *= 2;
        }
        else if ("Prof".equals(designation)) {
            designation = "Professor";
            sal *= 2.5;
        }

        out.println("<html>");
        out.println("<head><title>Details Obtained</title><link rel='style
sheet' href='styles_servlet.css'></head>");
        out.println("<body><h1>Employee Details</h1>");
        out.println("<hr><br>");
        out.println(
                "<table align='center'><tr><th>ID</th><td>" + id + "</td><
/tr><tr><th>Name</th><td>" + name + "</td></tr><tr><th>Designation</th><td>" +
 designation + "</td></tr><tr><th>Department</th><td>" + dept + "</td></tr><tr
><th>Basic Pay:</th><td>" + salary + "</td></tr><tr><th>Gross Pay:</th><td>" +
 sal + "</td></tr><tr><th>Contact</th><td>" + phone + "</td></tr><tr><th>Addre
ss</th><td>" + address + "</td></tr><tr><th>DOB</th><td>" + dob + "</td></tr><
tr><th>Gender</th><td>" + gender + "</td></tr><tr><th>Marital Status</th><td>"
 + status + "</td></tr></table>");
        out.println("</body></html>");
        out.close();
    }
}
```

Styles.css

```css
body{
    font-size: 16pt;
    font-family: courier;
    background: blue;
    color: white;
}

h1{
    font-size: 50pt;
    text-align: center;
```

```
    color: white;
}


table{
    width: 100%;
    text-align: center;
    border-spacing: 2px;
}
```

Script.js

```javascript
function myReset(){
    document.getElementById("regform").reset();
}
```

OUTPUT SCREENSHOTS

PART 2: PATIENT MANAGEMENT SYSTEM WITH DATABASE CONNECTIVITY

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/ihU7zmQxVncDAy5uIKz4rEkgIXeMed4M0jlfIDPvg6uqKI2xXr2" crossorigin="anonymous">

    <title>Patient Record Management</title>

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

  </head>

  <body>

    <div class="box">

      <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">

    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/css/bootstrap.min.css" integrity="sha384-TX8t27EcRE3e/ihU7zmQxVncDAy5uIKz4rEkgIXeMed4M0jlfIDPvg6uqKI2xXr2" 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/A3/view"><div class="vew">View Record</div></a>
          </li>
          <li>
            <a href="search.html"><div class="ser">Search Record</div></a>
          </li>
        </ul>
      </div>
```

```html
    </div>

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

      <form name="form1" method="POST" action="http://localhost:8080/A3/AddRec
ord">

        <table class="tb">
          <thead>
            <tr>
              <th colspan = "2"> Please fill in the details</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="age">Age: </label> </td>
            <td><input type="text" id="age" name="age"  required>
            </td>
          </tr>

          <tr>
            <td><label for="addr">Address: </label> </td>
            <td><textarea type="text" id="addr" name="address" required></tex
tarea></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>  
            <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>
```

```html
            <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 PATT
ERN=[0-9]{10}></td>
      </tr>

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

      </table>

    </form>

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

Search.html

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


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

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

    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/A3/add.html'><div class='add'>Add Record</div></a></li><li><a href='http://localhost:8080/A3/update.html'><div class='upd'>Update Record</div></a></li><li><a href='http://localhost:8080/A3/del.html'><div class='del'>Delete Record</div></a></li><li><a href='http://localhost:8080/A3/view'><div class='vew'>View Record</div></a></li><li><a href='http://localhost:8080/A3/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 = "srini123";

    Connection conn = null;
    Statement stmt = null;

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

        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>DOV</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.g
etDate("Dov") + "</td><td>" + cn + "</td></tr>");
        }
      out.println("</table>");
      out.println("</html></body>");
      conn.close();
    }

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

    out.close();
  }
}
```

Home.html

```
import java.io.*;
import javax.servlet.*;
import javax.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");

    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://localhos
t:8080/A3/add.html'><div class='add'>Add Record</div></a></li><li><a href='htt
p://localhost:8080/A3/update.html'><div class='upd'>Update Record</div></a></l
```

```
i><li><a href='http://localhost:8080/A3/del.html'><div class='del'>Delete Reco
rd</div></a></li><li><a href='http://localhost:8080/A3/view'><div class='vew'>
View Record</div></a></li><li><a href='http://localhost:8080/A3/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 = "srini123!";


    Connection conn = null;
    Statement stmt = null;

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

        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>Gende
r</th><th>Address</th><th>Marital_Status</th><th>DOV</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.g
etDate("Dov") + "</td><td>" + cn + "</td></tr>");
        }
        out.println("</table>");
        out.println("</html></body>");
        conn.close();
    }
```

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

    out.close();
  }
}
```

Edit.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/ihU7zmQxVncDAy5uIKz4rEkgIXeMed4M0jlfIDPvg6uqKI2xXr2" 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/A3/view"><div class="vew">View Reco
rd</div></a>
          </li>
```

```html
        <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/A3/UpdRec
ord">

      <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" clas
s="small"></p></th>
        </tr>
      </tfoot>

      </table>

    </form>

  </div>

 </body>

</html>
```

Delete.html

```html
<!DOCTYPE html>
```

```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/ihU7zmQxVncDAy5uIKz4rEkgIXeMed4M0jlfIDPvg6uqKI2xXr2" 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/A3/view"><div class="vew">View Reco
rd</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/A3/DelRec
ord">
```

```html
        <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" clas
s="small"></p></th>
          </tr>
        </tfoot>

        </table>

      </form>

    </div>

  </body>

</html>
```

Del.java

```java
import java.io.*;
import javax.servlet.*;
import javax.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();
```

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

    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://localhos
t:8080/A3/add.html'><div class='add'>Add Record</div></a></li><li><a href='htt
p://localhost:8080/A3/update.html'><div class='upd'>Update Record</div></a></l
i><li><a href='http://localhost:8080/A3/del.html'><div class='del'>Delete Reco
rd</div></a></li><li><a href='http://localhost:8080/A3/view'><div class='vew'>
View Record</div></a></li><li><a href='http://localhost:8080/A3/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 = "Srini0276!";


    Connection conn = null;
    Statement stmt = null;

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

       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>Gende
r</th><th>Address</th><th>Marital_Status</th><th>DOV</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");
```

```java
            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.g
etDate("Dov") + "</td><td>" + cn + "</td></tr>");
        }
        out.println("</table>");
        out.println("</html></body>");
        conn.close();
    }

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

    out.close();
  }
}
```

search.java

```java
import javax.servlet.*;
import javax.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 = "Srini0276!";

    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>");
```

```java
    out.println("<link rel='stylesheet' href='static/style2.css'><link rel='st
ylesheet' href='static/style3.css'></head>");
    out.println("<body><div class='nav-
bar'><h2>PATIENT DETAILS</h2><div class='bar'><ul><li><a href='http://localhos
t:8080/A3/add.html'><div class='add'>Add Record</div></a></li><li><a href='htt
p://localhost:8080/A3/update.html'><div class='upd'>Update Record</div></a></l
i><li><a href='http://localhost:8080/A3/del.html'><div class='del'>Delete Reco
rd</div></a></li><li><a href='http://localhost:8080/A3/view'><div class='vew'>
View Record</div></a></li><li><a href='http://localhost:8080/A3/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 W
HERE 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>");
      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></t
r>");
      out.println("</table>");
      out.println("</body></html>");

    }
```

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

    out.close();
  }
}
```

Update.java

```java
import javax.servlet.*;
import javax.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;
    Statement stmt = null;

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

    String USER = "root";
    String PASS = "Srini0276!";

    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='st
ylesheet' href='static/style3.css'></head>");
    out.println("<body><div class='nav-
bar'><h2>PATIENT DETAILS</h2><div class='bar'><ul><li><a href='http://localhos
t:8080/A3/add.html'><div class='add'>Add Record</div></a></li><li><a href=''ht
tp://localhost:8080/A3/update.html''><div class='upd'>Update Record</div></a><
/li><li><a href='http://localhost:8080/A3/del.html'><div class='del'>Delete Re
cord</div></a></li><li><a href='http://localhost:8080/A3/view'><div class='vew
```

```java
'>View Record</div></a></li><li><a href='http://localhost:8080/A3/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='POS
T' action='http://localhost:8080/A3/UpdDb'>");

        out.println("<table class='tb'><thead><tr><th colspan = '2'> UPDATE PATI
ENT 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 typ
e='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><texta
rea type='text' id='addr' name='address' required>" +              rs.getStr
ing("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")+"' read
only></td></tr>");

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


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

```java
    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='Subm
it'></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();
  }

}
```

DatabaseEdit.java

```java
import javax.servlet.*;
import javax.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 = "Srini0276!";

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

```java
    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);

       ps.execute();

       out.println("<script>");
       out.println("alert(\"Patient Details Have Been Updated...\")");
       out.println("location='http://localhost:8080/A3/view'");
       out.println("</script>");
    }

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

    out.close();
  }
}
```

Display.java

```java
import java.io.*;
import javax.servlet.*;
import javax.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://localhos
t:8080/A3/add.html'><div class='add'>Add Record</div></a></li><li><a href='htt
p://localhost:8080/A3/update.html'><div class='upd'>Update Record</div></a></l
i><li><a href='http://localhost:8080/A3/del.html'><div class='del'>Delete Reco
rd</div></a></li><li><a href='http://localhost:8080/A3/view'><div class='vew'>
View Record</div></a></li><li><a href='http://localhost:8080/A3/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 = "Srini0276!";


    Connection conn = null;
    Statement stmt = null;

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

        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>Gende
r</th><th>Address</th><th>Marital_Status</th><th>DOV</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");
```

```java
            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.g
etDate("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>
<servlet-class>UpdDb</servlet-class>
</servlet>
```

```xml
<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>
```

Script.js

```javascript
function check()
{
    var user=document.getElementById("name").value;
    var pass=document.getElementById("pass").value;
    if(user=="srinithyee" && pass=="srini")
    {
        window.open("homepage.html");
    }
```

```
    else
    {
        alert("Login Unsuccessful!!");
        document.getElementById("name").innerHTML=" ";
        document.getElementById("pass").innerHTML=" ";
        document.getElementById("name").select();
        return False;
    }
}
```

Style.css

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

body{
  margin: 0px;
  padding: 0px;
  background-image: url("https://www.pngitem.com/pimgs/m/149-1495929_hospital-clipart-black-hospital-building-hd-png-download.png");
  background-attachment: fixed;
  background-size: cover;
  font-family: Sans-Serif;
  background-size: cover;
}

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

```css
  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;
  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;
}
body
{
    margin: 0;
    padding: 0;
    font-family: courier;
    background: grey;
}

h2{
```

```css
    color: white;
    font: 20px;
}

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

.nav-bar{
    background-color:#707070;
    position: relative;
}

.nav-bar ul{
    align-items: center;
    justify-content:center;
    top:50%;
    left: 50%;
    margin: 0;
    padding: 10px 0;
    background:white;
    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;
}
```

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

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

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

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

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

**OUTPUT SCREENSHOTS**
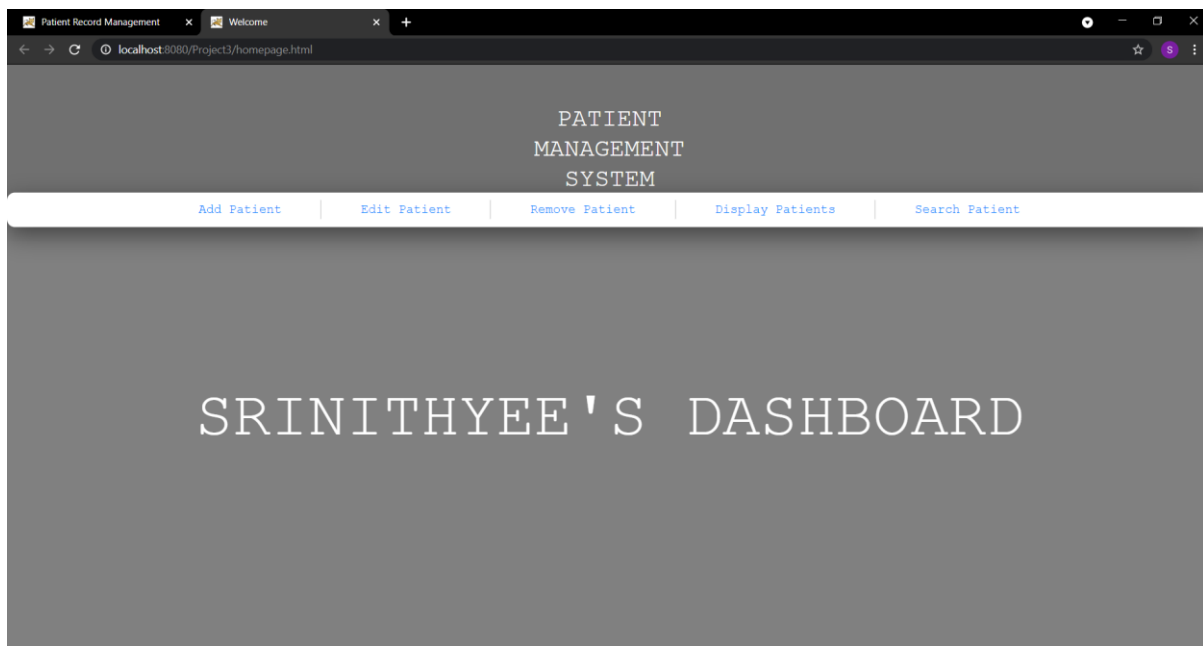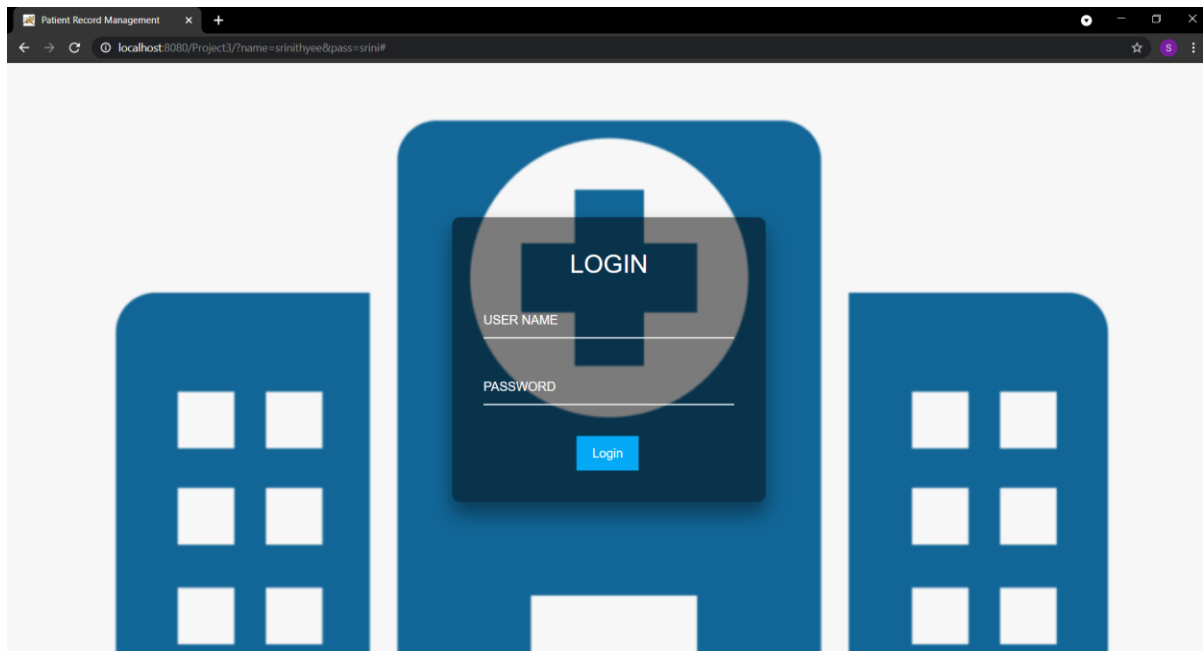
Add Record    |    Update Record    |    Delete Record    |    View Record    |    Search Record

| ID | NAME | AGE | ADDRESS | GENDER | MARITIAL STATUS | DATE OF VISIT | PHONE NUMBER |
|----|------|-----|---------|--------|-----------------|---------------|--------------|
| 3 | Kowsalya | 12 | Punjab | Female | Single | 18-03-2021 | 87659473 |
| 4 | Shoaib | 48 | Kerala | Male | Married | 20-03-2021 | 65847639 |

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

| ID | NAME | AGE | ADDRESS | GENDER | MARITIAL STATUS | DATE OF VISIT | PHONE NUMBER |
|----|------|-----|---------|--------|-----------------|---------------|--------------|
| 3 | Kowsalya | 12 | Punjab | Female | Single | 18-03-2021 | 7865467392 |
| 4 | Shoaib | 48 | Kerala | Male | Married | 20-03-2021 | 65847639 |