SSN College of Engineering,
Kalavakkam Department of Computer
Science and Engineering VI Semester
- CSE 'C'
UCS1611 INTERNET PROGRAMMING LAB

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Exercise 4: Java Servlets and MySQL

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Done by: B.Vignesh CSE 6C 185001193

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Learning Objective:

1. Create a HTML file with following form fields:
a. Employee ID
b. Employee Name
c. Designation
d. Department
e. Basic Salary
f. Phone Number
g. Address
h. Date of Birth
i. Gender
j. Marital Status
k. Submit (Button, onclick submit the form details to a servlet)
l. Reset (Button, onclick)

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

****

Code:

Index.html

```
<!DOCTYPE html>
<html lang="en">

<head>
<meta charset="UTF-8" />
<meta http-equiv="X-UA-Compatible" content="IE=edge" />
<meta name="viewport" content="width=device-width, initial-
scale=1.0" />
<title>Employee form</title>
<style>
div.form {
    display: block;
    text-align: center;
}

form {
    display: inline-block;
    margin-left: auto;
    margin-right: auto;
    text-align: left;
}

label,
input {
    text-align: center;
}
</style>
</head>

<body style="background-color: cyan">
<div class="form">
<form name="Form1" action="http://localhost:8080/project1/GetMtd">
    <h2 style="text-align: center">Employee Form</h2>
    <label for="empid">Employee ID:</label><br />
    <input type="text" id="empid" name="empid" /><br />
    <br />
    <label for="empname">Employee Name:</label><br />
    <input type="text" id="empname" name="empname" /><br />
    <br />
    <label for="designation">Designation:</label><br />
    <select name="designation" id="designation">
  <option value="">-Select Designation-</option>
  <option value="Trainee">Trainee</option>
  <option value="Junior developer">Junior developer</option>
```

```
  <option value="Senior developer">Senior developer</option>
  <option value="Manager">Manager</option>
</select>
    <br /><br />
    <label for="department">Department:</label><br />
    <input type="radio" id="Software" name="department" value="Softw
are" />
    <label for="Software">Software</label><br />
    <input type="radio" id="Hardware" name="department" value="Hardw
are" />
    <label for="Hardware">Hardware</label><br />
    <input type="radio" id="HR" name="department" value="HR" />
    <label for="HR">HR</label><br /><br />
    <label for="Basic">Basic Salary (between 10,000 and 5,00,000):</
label
><br />
<input type="number" id="Basic" name="Basic" min="10000" max="500000
" />
<br /><br />
<label for="phone">Phone number:</label><br />
    <input type="tel" id="phone" name="phone" placeholder="123-456-
6789" pattern="[0-9]{3}-[0-9]{3}-[0-9]{4}" required /><br /><br />
    <label for="address">Residential Address:</label><br />
    <textarea id="address" name="address" rows="4" cols="50"></texta
rea>
    <br />
    <br />
    <label for="dob">Date of Birth:</label>
    <input type="date" id="dob" name="dob" />
    <br />
    <br />
    <label for="gender">Gender:</label><br />
    <input type="radio" id="male" name="gender" value="male" />
    <label for="male">Male</label><br />
    <input type="radio" id="female" name="gender" value="female" />
    <label for="female">Female</label><br />
    <input type="radio" id="other" name="gender" value="other" />
    <label for="other">Other</label>
    <br />
    <br />
    <label for="marital_status">Marital Status:</label><br />
    <select name="marital_status" id="marital_status">
  <option value="">-Select Marital Status-</option>
  <option value="Single">Single</option>
  <option value="Married">Married</option>
  <option value="Widowed">Widowed</option>
  <option value="Separated">Separated</option>
  <option value="Divorced">Divorced</option>
```

```
</select>
    <br />
    <br />
    <input type="submit" value="Submit" />
    <input type="reset" value="Reset" />
</form>
</div>
</body>

</html>
```

GetServlet.java:

```
import java.io.*;
import jakarta.servlet.*;
import jakarta.servlet.http.*;
public class GetServlet extends HttpServlet {
public void doGet(HttpServletRequest request, HttpServletResponse re
sponse)
throws ServletException, IOException {
    String empid = request.getParameter("empid");
    String empname = request.getParameter("empname");
    String designation = request.getParameter("designation");
    String department = request.getParameter("department");
    String basic = request.getParameter("Basic");
    String tele = request.getParameter("phone");
    String address = request.getParameter("address");
    String dob = request.getParameter("dob");
    String gender = request.getParameter("gender");
    String marital = request.getParameter("marital_status");
    int bs = Integer.parseInt(basic);
    double gs=0;
    if(designation.equals("Trainee")){
        gs=1.05*bs;
    }
    else if(designation.equals("Junior developer")){
        gs=1.1*bs;
    }
    else if(designation.equals("Senior developer")){
        gs=1.2*bs;
    }
    else if(designation.equals("Manager")){
        gs=1.3*bs;
    }
    else{
        gs=bs;
    }
```

```
    response.setContentType("text/html");
    PrintWriter pw = response.getWriter();
    String cssTag="<link rel='stylesheet' type='text/css' href='css/
style.css'>";
    pw.println("<html>");
    pw.println("<head><title>Title Name</title>"+cssTag+"</head>");
    pw.println("<body>");
    pw.println("<div>");
    pw.println("<h1>Form response</h1><br><br>");
    pw.println("<table id='patient'>");
    pw.println("<tr>");
    pw.println("<th style='border: 2px solid black'> Employee ID </t
h>");
    pw.println("<td style='border: 2px solid black'>" + empid + "</t
d>");
    pw.println("</tr>");
    pw.println("<tr>");
    pw.println("<th style='border: 2px solid black'> Name  </th>");
    pw.println("<td style='border: 2px solid black'>" + empname + "<
/td>");
    pw.println("</tr>");
    pw.println("<tr>");
    pw.println("<th style='border: 2px solid black'> Designation  </
th>");
    pw.println("<td style='border: 2px solid black'>" + designation
+ "</td>");
    pw.println("</tr>");
    pw.println("<tr>");
    pw.println("<th style='border: 2px solid black'> Department  </t
h>");
    pw.println("<td style='border: 2px solid black'>" + department +
 "</td>");
    pw.println("</tr>");
    pw.println("<tr>");
    pw.println("<th style='border: 2px solid black'> Basic Salary  <
/th>");
    pw.println("<td style='border: 2px solid black'>" + basic + "</t
d>");
    pw.println("</tr>");
    pw.println("<tr>");
    pw.println("<th style='border: 2px solid black'> Gross Salary  <
/th>");
    pw.println("<td style='border: 2px solid black'>" + gs + "</td>"
);
    pw.println("</tr>");
    pw.println("<tr>");
    pw.println("<th style='border: 2px solid black'> Phone Number  <
/th>");
    pw.println("<td style='border: 2px solid black'>" + tele + "</td
```

```
>");
    pw.println("</tr>");
    pw.println("<tr>");
    pw.println("<th style='border: 2px solid black'> Address  </th>"
);
    pw.println("<td style='border: 2px solid black'>" + address + "<
/td>");
    pw.println("</tr>");
    pw.println("<tr>");
    pw.println("<th style='border: 2px solid black'> Date of Birth
</th>");
    pw.println("<td style='border: 2px solid black'>" + dob + "</td>
");
    pw.println("</tr>");
    pw.println("<tr>");
    pw.println("<th style='border: 2px solid black'> Gender </th>");
    pw.println("<td style='border: 2px solid black'>" + gender + "</
td>");
    pw.println("</tr>");
    pw.println("<tr>");
    pw.println("<th style='border: 2px solid black'> Marital Status
 </th>");
    pw.println("<td style='border: 2px solid black'>" + marital + "<
/td>");
    pw.println("</tr>");

    pw.println("</table>");
    pw.println("</div></body></html>");
    pw.close();
}
}
```

Web.xml:

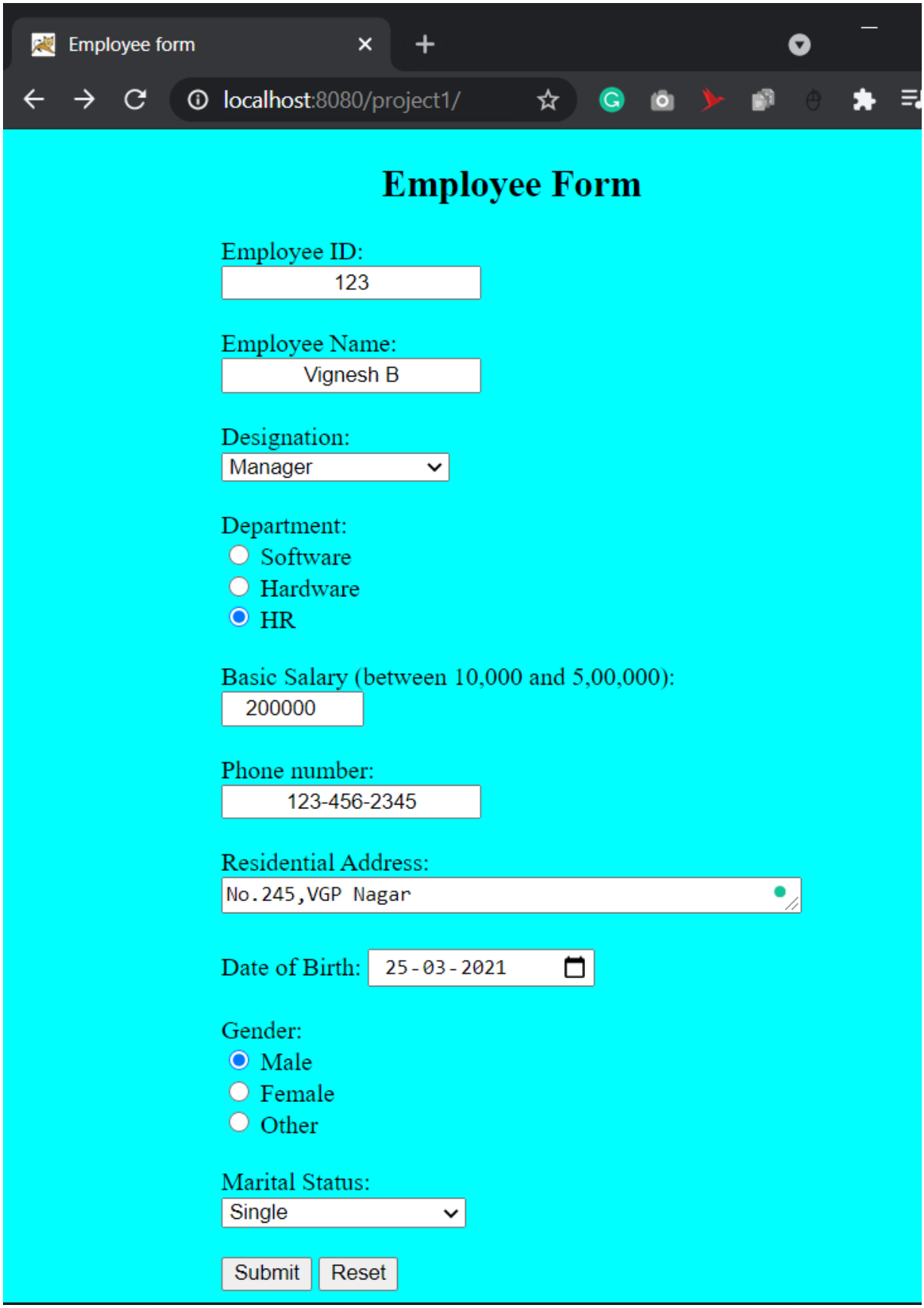
```
<web-app>
<servlet>
<servlet-name>GetMtd</servlet-name>
<servlet-class>GetServlet</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>GetMtd</servlet-name>
<url-pattern>/GetMtd</url-pattern>
</servlet-mapping>
</web-app>
```

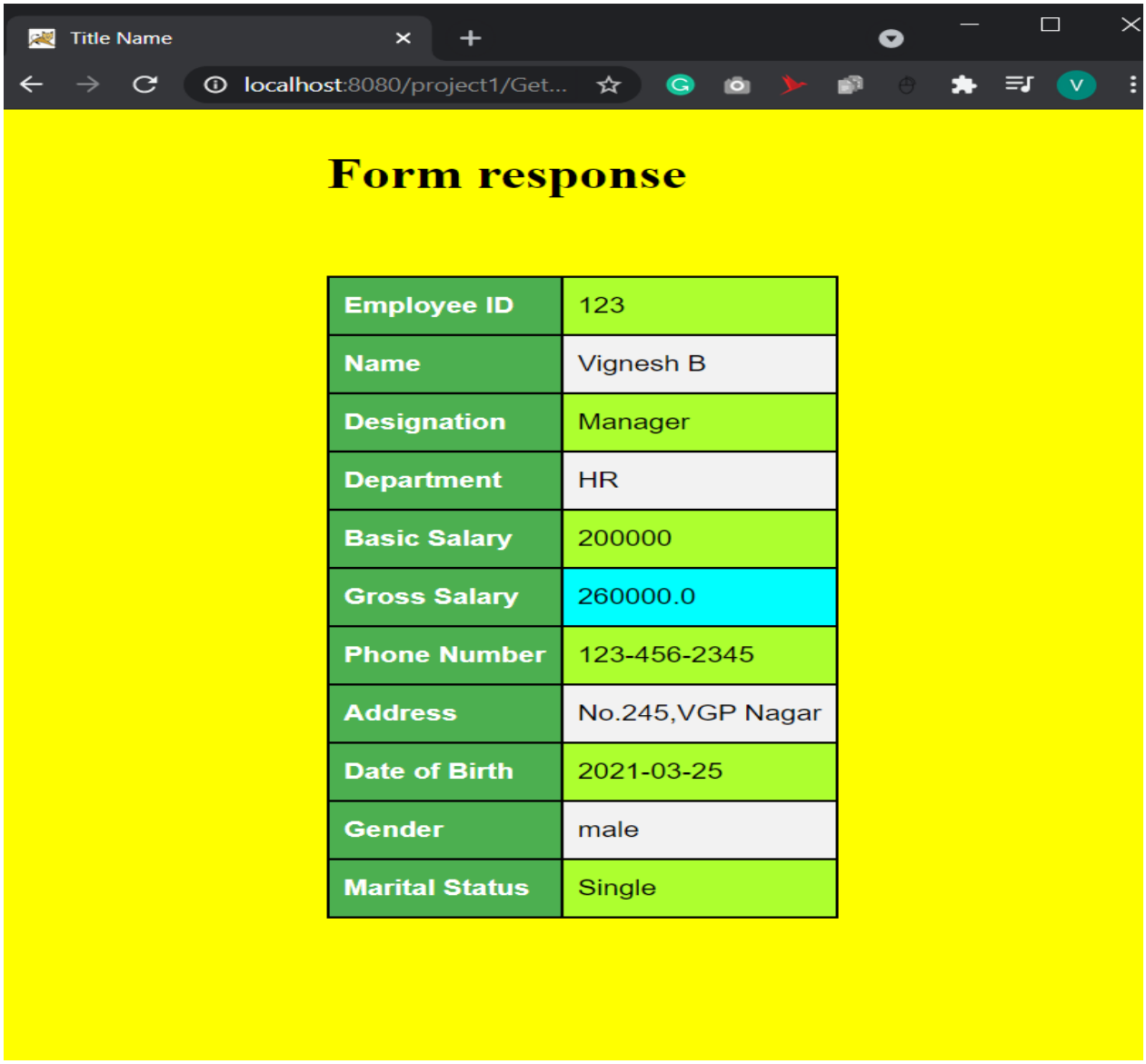
Style.css:

```
body {
    background-color: yellow;
    text-align: center;
}

div {
    display: inline-block;
    margin-left: auto;
    margin-right: auto;
    text-align: left;
}

#patient {
    font-family: Arial, Helvetica, sans-serif;
    border-collapse: collapse;
    width: 100%;
}

#patient td,
#patient th {
    border: 1px solid #ddd;
    padding: 8px;
}

#patient tr:nth-child(even) {
    background-color: #f2f2f2;
}

#patient tr:nth-child(odd) {
    background-color: greenyellow;
}

#patient tr:hover {
    background-color: cyan;
}

#patient th {
    padding-top: 12px;
    padding-bottom: 12px;
    text-align: left;
    background-color: #4caf50;
    color: white;
}
```

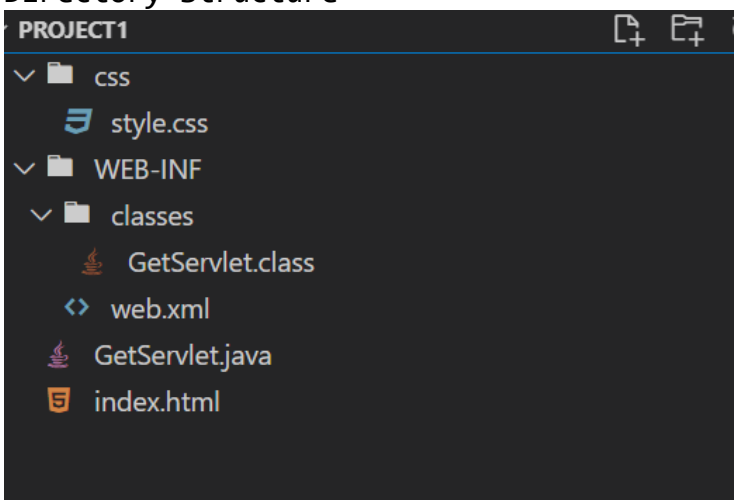
.....

Output Screenshots:





Directory Structure



Question 1. 3b.

Learning Objective:

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

Specifications:

a. Admin only can access the patient records.

b. Admin has to authenticate himself with the credentials to access the patient details.

c. The first page is the login page (login.html) where the admin should enter the credentials .

d. If login fails, display an alert “Login Failed, enter the correct details”, clear the username and password textbox and focus the control back to the username of login.html

e. Perform the authentication using JavaScript, use hardcoded username and password in login.html

f. On successful login, it should be redirected to homepage (homepage.html) of PMS.

g. The homepage.html should display the following:

h. Clicking the links should invoke its corresponding html file from where the information is submitted to the corresponding Servlet. For example, The html file for Delete Record is:

i. On Submit, it should invoke DeleteServlet. The DeleteServlete should delete the record from the Database and displays “Record Deleted” in a new webpage with a view button as follows:

j. When “View” button is clicked it invokes the “ViewServlet” to display all the records in the database.

k. Similarly, perform ADD, UPDATE, VIEW and SEARCH using **corresponding html** and **Servlet**

l. UPDATE is invoked if phone number or Address of the patient is changed

m. SEARCH for particular patient based on Patient ID

n. After each operation ViewServlet should be invoked to view the changes in the Database

Database Name: Patient_Details

Table Schema: Name, age, ID, gender, address, marital status, Date of Visit

Program:

Index.html :

```
<!DOCTYPE html>
<html>

<head>
<title>Patient Management System</title>
<link rel="stylesheet" type="text/css" href="style/style1.css" />
</head>

<body style="background-color: cyan">
<div class="form">
<h1>Login Page</h1>
<br />
<br />
<form onsubmit="return validate();" method="POST" action="HomePage">
<label for="uname"><b>Username: </b></label>
<input type="text" placeholder="Enter Username" id="uname" name="una
me" required />
<br />
<br />
<label for="pass"><b>Password: </b></label>
<input type="password" placeholder="Enter Password" id="pass" name="
pass" required />
<br />
<br />
<button type="submit">Login</button>
<button type="reset">Reset</button>
</form>
</div>
<script type="text/javascript">
function validate() {
var uname = document.getElementById("uname");
var pass = document.getElementById("pass");

if (uname.value == "admin" && pass.value == "ssn") {
return true;
} else {
alert("Invalid Username or Password");
document.getElementById("uname").value = "";
document.getElementById("pass").value = "";
document.getElementById("uname").focus();
return false;
}
}
</script>
</body>
```

```
</html>
```

ViewRecord.html:

```
<!DOCTYPE html>
<html>

<head>
<title>PMS-View DB</title>
<link rel="stylesheet" type="text/css" href="style/style1.css" />
</head>

<body style="background-color: cyan">
<div class="form">
<h1>View DataBase</h1>
<br /><br />
<form method="POST" action="ViewDB">
<button type="submit">ViewDB</button>
</form>
</div>
</body>

</html>
```

Searchrecord.html:

```
<!DOCTYPE html>
<html>

<head>
<title>Patient Management System</title>
<link rel="stylesheet" type="text/css" href="style/style1.css" />
</head>

<body style="background-color: cyan">
<div class="form">
<h1>Search Record Form</h1>
<br />
<form method="POST" action="SearchRecord">
<label for="sid">Enter ID:</label>
<input type="text" id="sid" name="sid" /><br /><br />
<button type="submit">Search</button>
</form>
```

```
</div>
</body>

</html>
```

AddRecord.html:

```
<!DOCTYPE html>
<html>

<head>
<title>PMS - Add Record</title>
<link rel="stylesheet" type="text/css" href="style/style1.css" />
</head>

<body style="background-color: cyan">
<div class="form">
<h1>New record form</h1>
<form method="POST" action="AddRecord">
<br /><br />
<label for="name">Enter name: </label>
<input type="text" id="name" name="name" /><br /><br />
<label for="age">Enter Age: </label>
<input type="number" id="age" name="age" /><br /><br />
<label for="address">Enter Address:</label>
<input type="text" id="address" name="address" /><br /><br />
<label for="marital">Enter marital status:</label>
<input type="text" id="marital" name="marital" /><br /><br />
<label for="gender">Enter gender status:</label>
<input type="text" id="gender" name="gender" /><br /><br />
<label for="dov">Date of Visit:</label>
<input type="date" id="dov" name="dov" /><br /><br />
<input type="submit" value="Add Record" />
<button type="reset">Reset</button>
</form>
</div>
</body>

</html>
```

DeleteRecord.html:

```
<!DOCTYPE html>
```

```
<html>

<head>
<title>Patient Management System</title>
<link rel="stylesheet" type="text/css" href="style/style1.css" />
</head>

<body style="background-color: cyan">
<div class="form">
<h1>Delete Record Form</h1>
<form method="POST" action="DeleteRecord">
<label for="sid">Enter ID:</label>
<input type="text" id="sid" name="sid" /><br /><br />
<button type="submit">Delete</button>
</form>
</div>
</body>

</html>
```

.....

UpdateRecord.html:

```
<!DOCTYPE html>
<html>
<head>
<title>Update Record</title>
<link rel="stylesheet" type="text/css" href="style/style1.css" />
</head>

<body style="background-color: cyan">
<div class="form">
<h1>Update Record Form</h1>
<br />
<form method="POST" action="UpdateRecord">
<label for="id">Enter ID:</label>
<input type="text" id="id" name="id" /><br /><br />
<label for="address">Enter Address:</label>
<input type="text" id="address" name="address" value="nc" /><br /><b
r />
<label for="dov">Date of Visit:</label>
<input type="date" id="dov" name="dov" value="1111-11-
11" /><br /><br />
<input type="submit" value="Update Record" />
</form>
</div>
```

```
</body>

</html>
```

HomePage.java:

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

public class HomePage extends HttpServlet {
public void doPost(HttpServletRequest request, HttpServletResponse r
esponse) throws ServletException, IOException {
response.setContentType("text/html");
PrintWriter out = response.getWriter();
String cssTag="<link rel='stylesheet' type='text/css' href='style/st
yle.css'>";
out.println("<html>");
out.println("<head><title>PMS DB</title>"+cssTag+"</head>");
out.println("<body>");
out.println("<div>");
out.println("<h1>Patient Details</h1><br>");
out.println("<br><a href=\"http://localhost:8080/demo4/AddRecord.htm
l\"> Add Record </a><br>");
out.println("<br><a href=\"http://localhost:8080/demo4/UpdateRecord.
html\"> Update Record </a><br>");
out.println("<br><a href=\"http://localhost:8080/demo4/DeleteRecord.
html\"> Delete Record </a><br>");
out.println("<br> <a href=\"http://localhost:8080/demo4/SearchRecord
.html\"> Search Record </a><br>");
out.println("<br> <a href=\"http://localhost:8080/demo4/ViewRecord.h
tml\"> View Record </a><br>");
out.println("</div></body></html>");
}
}
```

ViewDB.java:

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

public class ViewDB extends HttpServlet {
```

```
public void doPost(HttpServletRequest request, HttpServletResponse r
esponse) throws ServletException, IOException {
response.setContentType("text/html");
PrintWriter out = response.getWriter();
try {
Class.forName("com.mysql.cj.jdbc.Driver");
Connection conn = DriverManager.getConnection("jdbc:mysql://localhos
t:3306/Patient_Details","root","2727");
Statement stmt = conn.createStatement();
ResultSet rs = stmt.executeQuery("SELECT * FROM patientdetails2");
String cssTag="<link rel='stylesheet' type='text/css' href='style/st
yle.css'>";
out.println("<html>");
out.println("<head><title>PMS DB</title>"+cssTag+"</head>");
out.println("<body>");
out.println("<div>");
out.println("<h1> <Center> Complete Patient Database <center> </h1><
br>");
out.println("<table id=\"patient\">");
out.println("<tr> <th>Patient ID</th> <th>Name</th> <th>Age</th> <th
>Address</th> <th>Gender</th><th>Marital Status</th><th>Date of Visi
t</th></tr>");
while(rs.next()) {
int id = rs.getInt("id");
int age = rs.getInt("age");
String name = rs.getString("name");
String gender = rs.getString("gender");
String address = rs.getString("address");
String marital = rs.getString("marital_status");
String date = rs.getString("dateofvisit");
out.println("<tr> <td>"+id+"</td>" + "<td>"+name+"</td>" + "<td>"+ag
e+"</td>" + "<td>"+address+"</td>" + "<td>"+gender+"</td>"+"<td>"+ma
rital+"</td>"+"<td>"+date+"</td>"+"</tr>");
}
out.println("</table>");
out.println("<form method=\"POST\" action=\"HomePage\"><br> <input t
ype=\"submit\" value=\"Home\">");
out.println("</div></body></html>");
}

catch (Exception e) {

}
}
}
```

.....

SearchRecord.java:

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

public class SearchRecord extends HttpServlet {
public void doPost(HttpServletRequest request, HttpServletResponse r
esponse) throws ServletException, IOException {
response.setContentType("text/html");
PrintWriter out = response.getWriter();
try {
String cssTag="<link rel='stylesheet' type='text/css' href='style/st
yle2.css'>";
String cssTag1="<link rel='stylesheet' type='text/css' href='style/s
tyle.css'>";
out.println("<html>");
out.println("<head><title>PMS Search</title>"+cssTag+cssTag1+"</head
>");
out.println("<body>");
out.println("<div class=\"center\">");
out.println("<h1> <Center> Search Status <center> </h1><br>");
Class.forName("com.mysql.cj.jdbc.Driver");
Connection conn = DriverManager.getConnection("jdbc:mysql://localhos
t:3306/Patient_Details","root","2727");
Statement stmt = conn.createStatement();
String sid = request.getParameter("sid");
ResultSet rs = stmt.executeQuery("SELECT * FROM patientdetails2 wher
e id="+sid+";");

out.println("<table id=\"patient\">");
out.println("<tr> <th>Patient ID</th> <th>Name</th> <th>Age</th> <th
>Address</th> <th>Gender</th><th>Marital Status</th><th>Date of Visi
t</th></tr>");
while(rs.next()) {
int id = rs.getInt("id");
int age = rs.getInt("age");
String name = rs.getString("name");
String gender = rs.getString("gender");
String address = rs.getString("address");
String marital = rs.getString("marital_status");
String date = rs.getString("dateofvisit");
out.println("<tr> <td>"+id+"</td>" + "<td>"+name+"</td>" + "<td>"+ag
e+"</td>" + "<td>"+address+"</td>" + "<td>"+gender+"</td>"+"<td>"+ma
rital+"</td>"+"<td>"+date+"</td>"+"</tr>");
}
out.println("</table>");
```

```
out.println("<form method=\"POST\" action=\"HomePage\"><br> <input t
ype=\"submit\" value=\"Home\">");

out.println("</div></body></html>");
}

catch (Exception e) {

}
}
}
```

AddRecord.java:

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

public class AddRecord extends HttpServlet {
public void doPost(HttpServletRequest request, HttpServletResponse r
esponse) throws ServletException, IOException {
response.setContentType("text/html");
PrintWriter out = response.getWriter();
try {
String cssTag="<link rel='stylesheet' type='text/css' href='style/st
yle2.css'>";
out.println("<html>");
out.println("<head><title>PMS Create</title>"+cssTag+"</head>");
out.println("<body>");
out.println("<div class=\"center\">");
out.println("<h1> <Center> Create Status <center> </h1><br>");
Class.forName("com.mysql.cj.jdbc.Driver");
Connection conn = DriverManager.getConnection("jdbc:mysql://localhos
t:3306/Patient_Details","root","2727");
Statement stmt = conn.createStatement();
String name = request.getParameter("name");
String gender = request.getParameter("gender");
String address = request.getParameter("address");
String marital = request.getParameter("marital");
String dov = request.getParameter("dov");
int age=Integer.parseInt(request.getParameter("age"));
ResultSet rs = stmt.executeQuery("SELECT MAX(id) as m FROM patientde
tails2;");
int id = 1;
while(rs.next()) {
id = rs.getInt("m")+1;
}
```

```
String sql = "INSERT INTO patientdetails2 VALUES (\""+ name +"\","+
age +"," + id + ",\""+address+"\",\""+gender+"\",\""+marital+"\",\""
+ dov+"\");";
stmt.executeUpdate(sql);
out.println("<form method=\"POST\" action=\"ViewDB\"><h1><center>Rec
ord Created</center></h1><br><br> <h1><center><input type=\"submit\"
 value=\"View\"></center></h1>");
out.println("</div></body></html>");
}
catch (Exception e) {
}
}
}
```

DeleteRecord.java:

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

public class DeleteRecord extends HttpServlet {
public void doPost(HttpServletRequest request, HttpServletResponse r
esponse) throws ServletException, IOException {
response.setContentType("text/html");
PrintWriter out = response.getWriter();
try {
String cssTag="<link rel='stylesheet' type='text/css' href='style/st
yle2.css'>";
out.println("<html>");
out.println("<head><title>PMS Delete</title>"+cssTag+"</head>");
out.println("<body>");
out.println("<div class=\"center\">");
out.println("<h1> <Center> Delete Status <center> </h1><br>");
Class.forName("com.mysql.cj.jdbc.Driver");
Connection conn = DriverManager.getConnection("jdbc:mysql://localhos
t:3306/Patient_Details","root","2727");
Statement stmt = conn.createStatement();
String sid = request.getParameter("sid");
stmt.executeUpdate("DELETE FROM patientdetails2 where id="+sid+";");
out.println("<form method=\"POST\" action=\"ViewDB\"><h1><center>Rec
ord Deleted</center></h1><br><br> <h1><center><input type=\"submit\"
 value=\"View\"></center></h1>");
out.println("</div></body></html>");
}
```

```
catch (Exception e) {
}
}
}
```

UpdateRecord.java:

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

public class UpdateRecord extends HttpServlet {
public void doPost(HttpServletRequest request, HttpServletResponse r
esponse) throws ServletException, IOException {
response.setContentType("text/html");
PrintWriter out = response.getWriter();
try {
String cssTag="<link rel='stylesheet' type='text/css' href='style/st
yle2.css'>";
out.println("<html>");
out.println("<head><title>PMS Update</title>"+cssTag+"</head>");
out.println("<body>");
out.println("<div class=\"center\">");
out.println("<h1> <Center> Update Status <center> </h1><br>");
Class.forName("com.mysql.cj.jdbc.Driver");
Connection conn = DriverManager.getConnection("jdbc:mysql://localhos
t:3306/Patient_Details","root","2727");
Statement stmt = conn.createStatement();
int id = Integer.parseInt(request.getParameter("id"));
String address = request.getParameter("address");
String dov = request.getParameter("dov");
if(address.equals("nc")){
String sql = "UPDATE patientdetails2 SET dateofvisit=\"" + dov + "\"
 WHERE id=" + id + ";";
stmt.executeUpdate(sql);
}else if(dov.equals("1111-11-11")){
String sql = "UPDATE patientdetails2 SET address=\""+ address +"\" W
HERE id=" + id + ";";
stmt.executeUpdate(sql);
}
else{
String sql = "UPDATE patientdetails2 SET address=\""+ address +"\",
dateofvisit=\"" + dov + "\" WHERE id=" + id + ";";
stmt.executeUpdate(sql);
}
out.println("<form method=\"POST\" action=\"ViewDB\"><h1><center>Rec
ord Updated</center></h1><br><br> <h1><center><input type=\"submit\"
```

```
 value=\"View\"></center></h1>");
out.println("</div></body></html>");
}
catch (Exception e) {
}
}
}
```

Style.css:

```
body {
background-color: yellow;
text-align: center;
}

div {
display: inline-block;
margin-left: auto;
margin-right: auto;
text-align: left;
}

#patient {
font-family: Arial, Helvetica, sans-serif;
border-collapse: collapse;
width: 100%;
}

#patient td,
#patient th {
border: 1px solid #ddd;
padding: 8px;
}

#patient tr:nth-child(even) {
background-color: #f2f2f2;
}

#patient tr:nth-child(odd) {
background-color: cyan;
}

#patient tr:hover {
background-color: red;
}
```

```
#patient th {
padding-top: 12px;
padding-bottom: 12px;
text-align: left;
background-color: #4caf50;
color: white;
}
```

Style1.css:

```
div.form {
display: block;
text-align: center;
}

form {
display: inline-block;
margin-left: auto;
margin-right: auto;
text-align: left;
}
```

Style2.css:

```
.center {
margin-left: auto;
margin-right: auto;
}

body {
background-color: aquamarine;
}
```

.....

Web.xml:

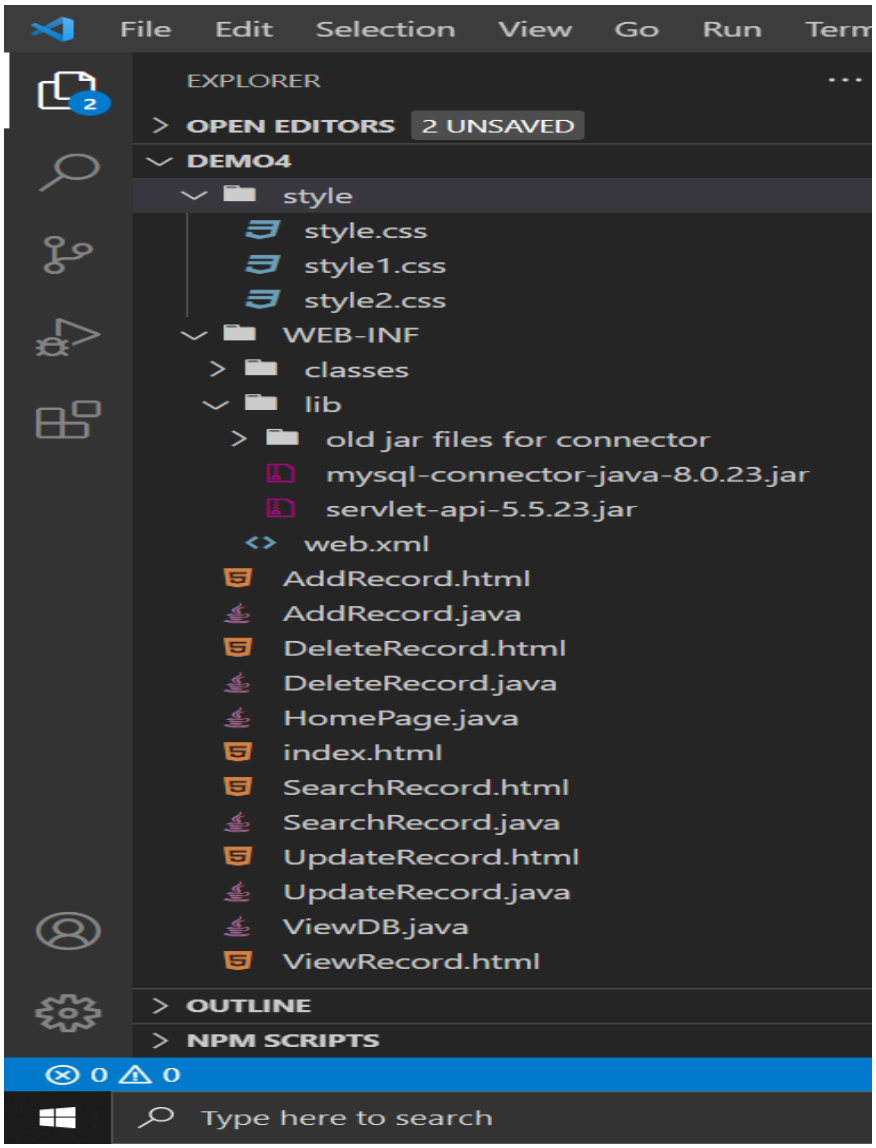
```
<web-app>
<servlet>
<servlet-name>HomePage</servlet-name>
<servlet-class>HomePage</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>HomePage</servlet-name>
<url-pattern>/HomePage</url-pattern>
</servlet-mapping>

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

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

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

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

</web-app>
```

****

Output:

Directory Structure:



MySQL:

```
MySQL 5.7 Command Line Client
Enter password: ****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 74
Server version: 5.7.33-log MySQL Community Server (GPL)

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Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use Patient_Details;
Database changed
mysql> select * from patientdetails2;
+-------------+------+------+-----------+--------+----------------+-------------+
| name        | age  | id   | address   | gender | marital_status | dateofvisit |
+-------------+------+------+-----------+--------+----------------+-------------+
| suresh      |   30 |    1 | abcd      | male   | married        | 1111-11-10  |
| vignesh     |   20 |    2 | kolkaata  | male   | single         | 2021-01-01  |
| Venkatesh B |    2 |    3 | mumbai    | female | single         | 2021-03-27  |
+-------------+------+------+-----------+--------+----------------+-------------+
3 rows in set (0.00 sec)

mysql>
```
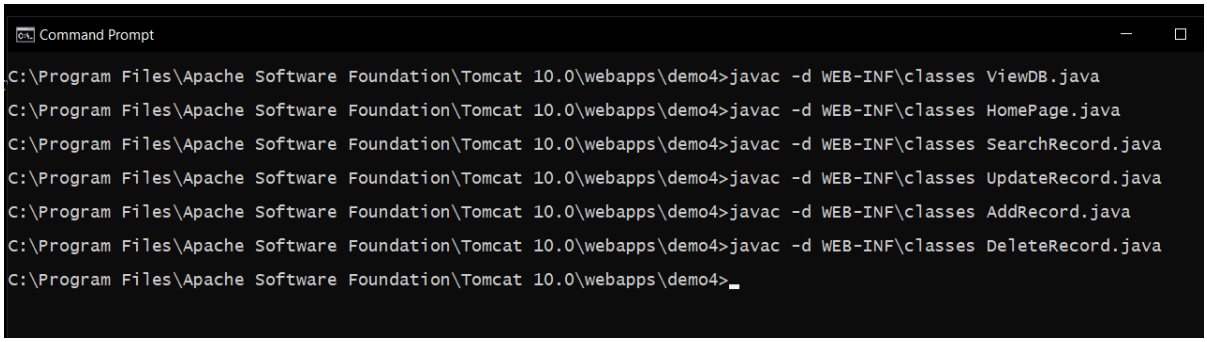
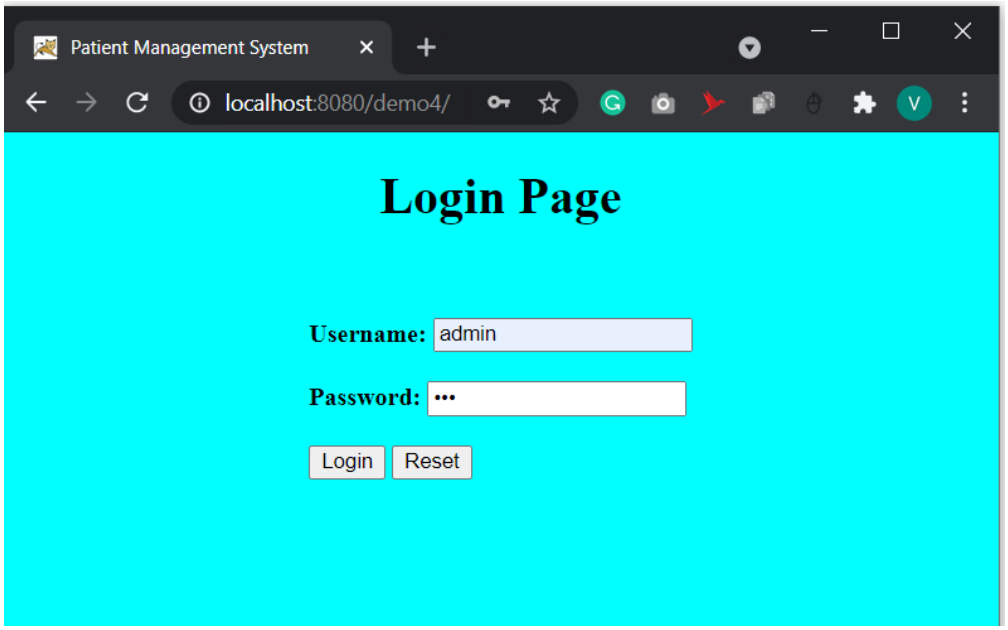
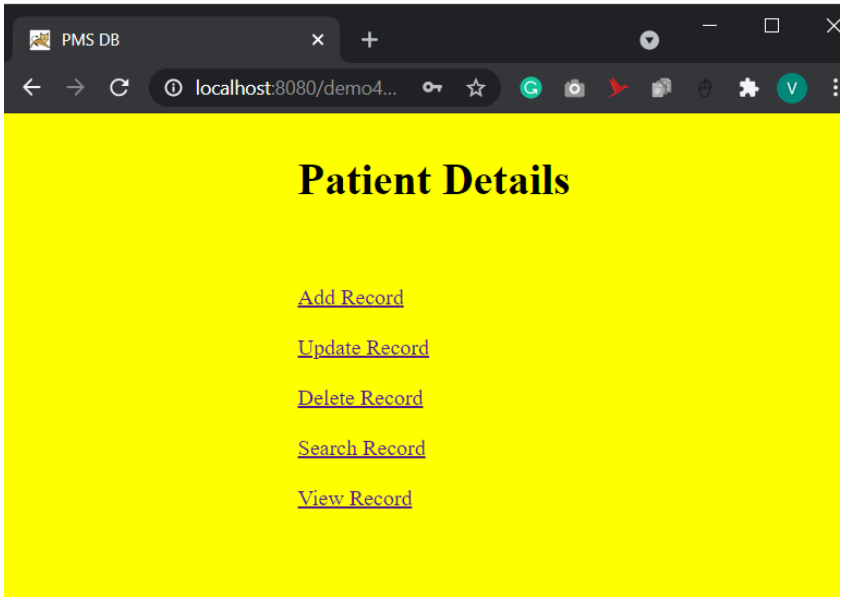



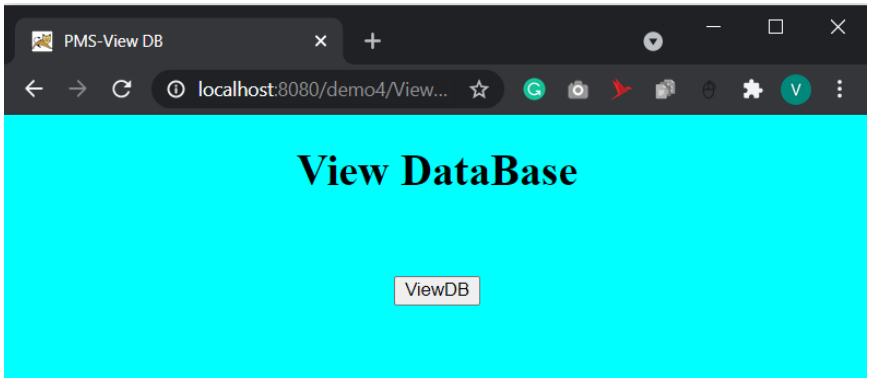
Index.html:



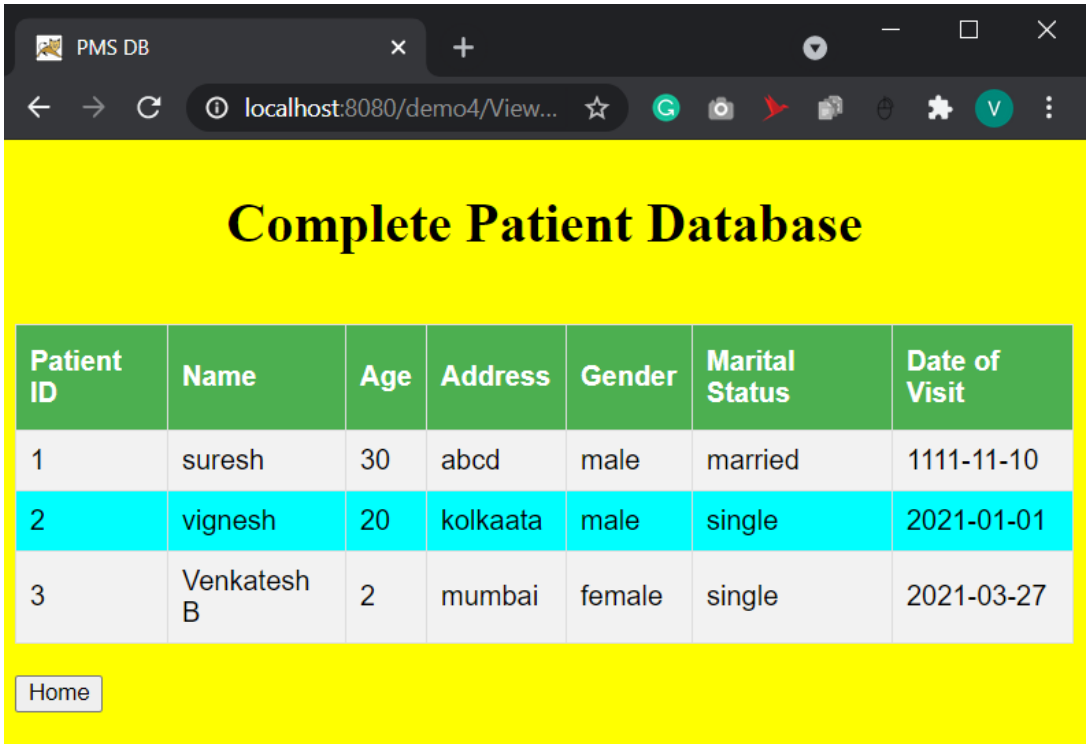
HomePage.java:



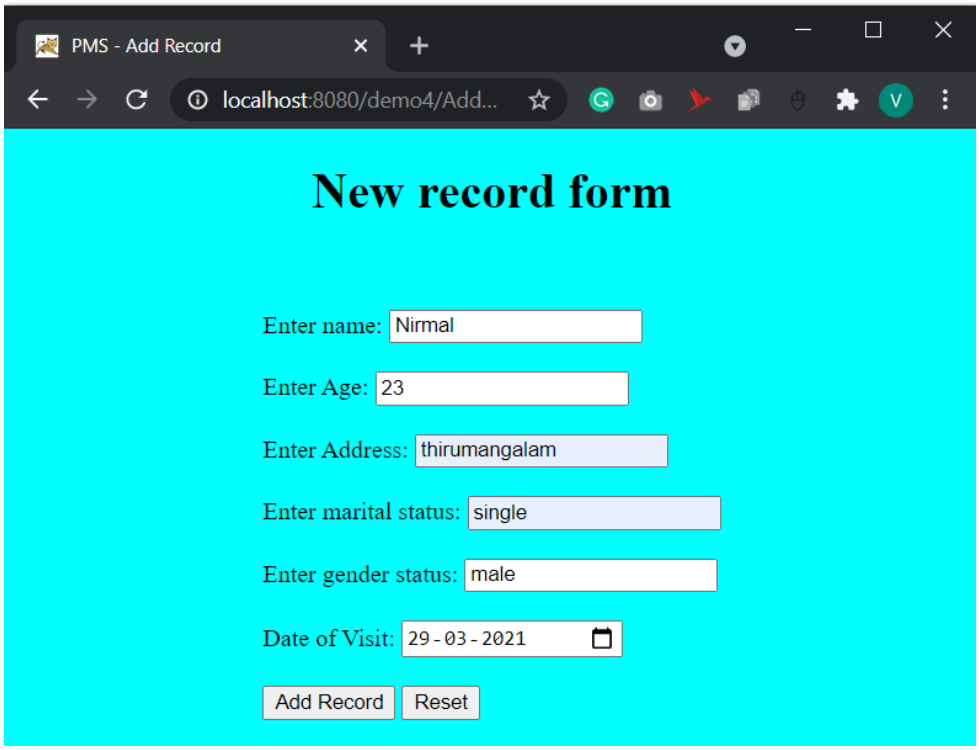
ViewRecord.html:



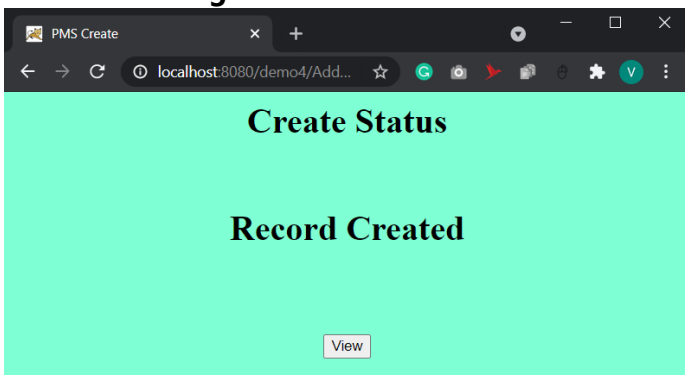
ViewDB.java:



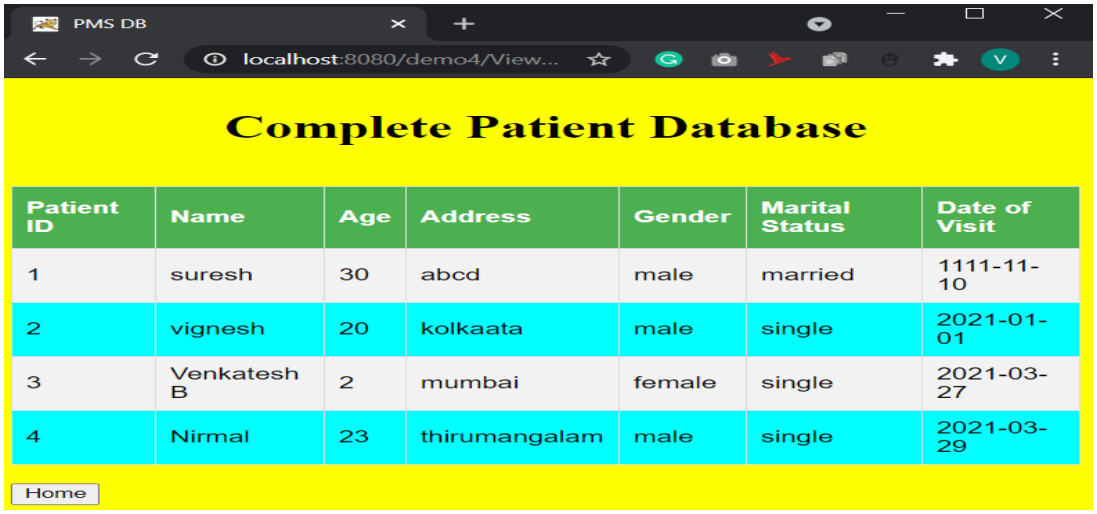
AddRecord.html:



AddRecord.java

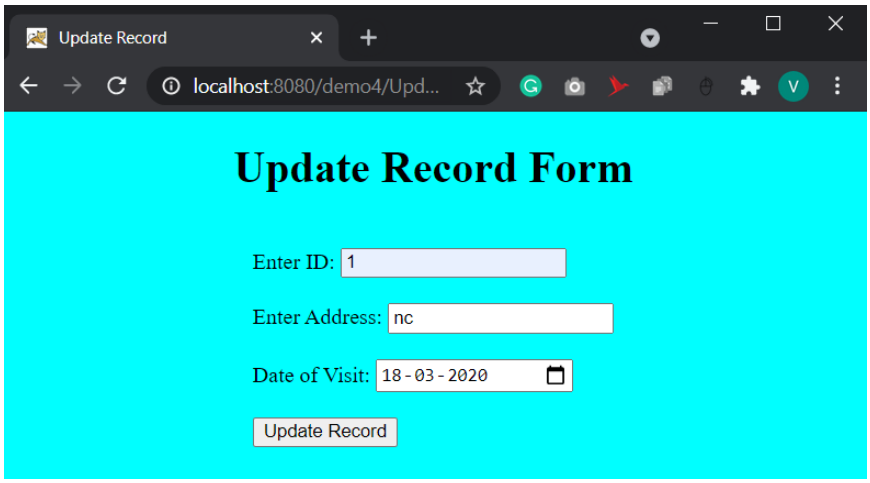


Latest DB:

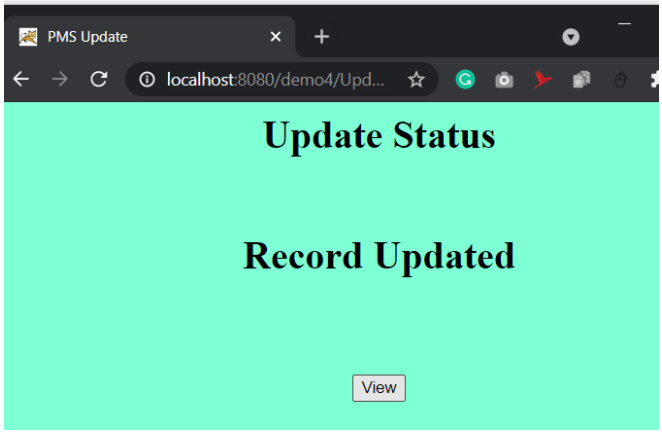


Patient ID	Name	Age	Address	Gender	Marital Status	Date of Visit
1	suresh	30	abcd	male	married	1111-11-10
2	vignesh	20	kolkaata	male	single	2021-01-01
3	Venkatesh B	2	mumbai	female	single	2021-03-27
4	Nirmal	23	thirumangalam	male	single	2021-03-29

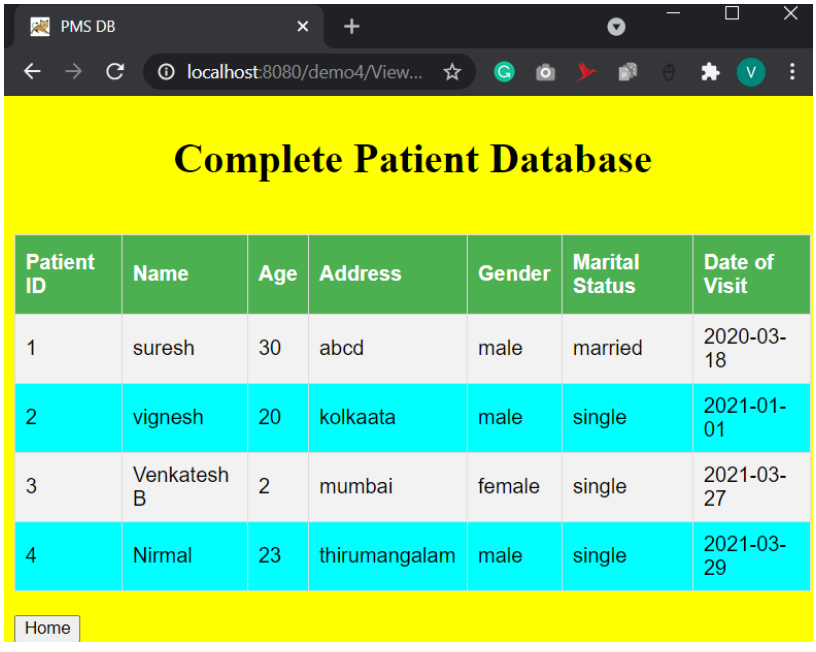
UpdateRecord.html:



UpdateRecord.java:

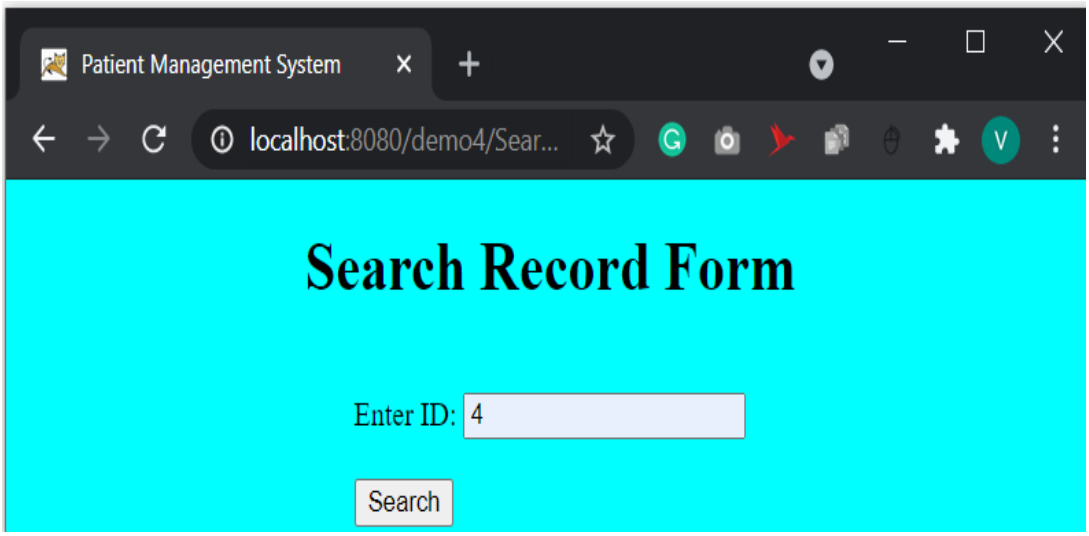


Latest DB:

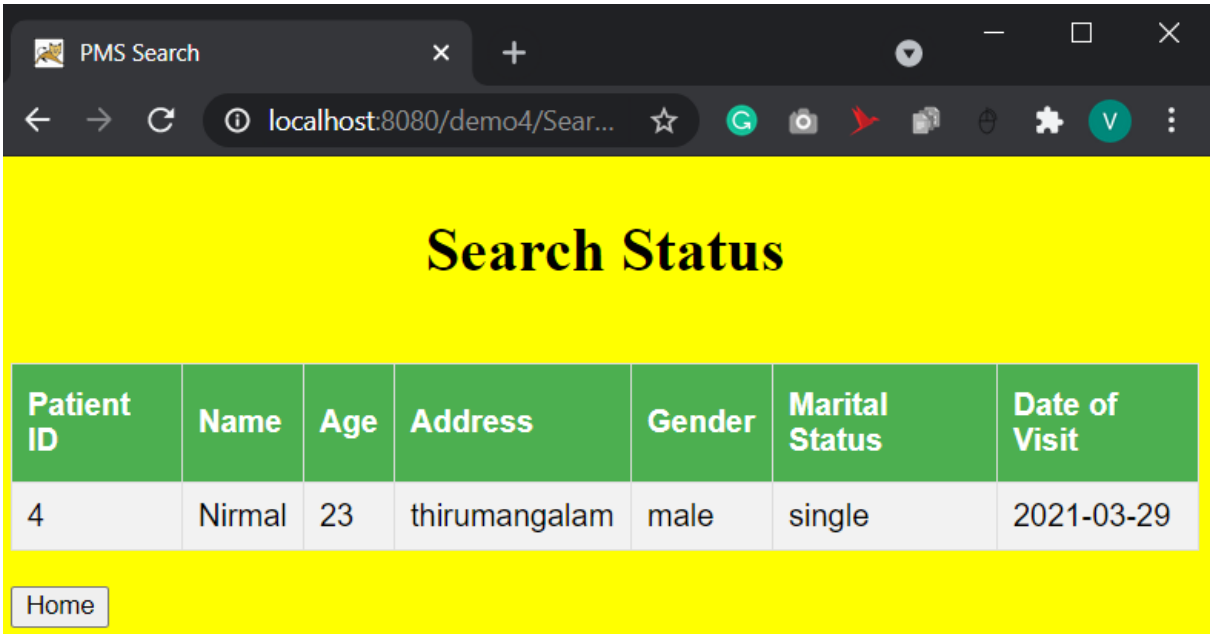


Patient ID	Name	Age	Address	Gender	Marital Status	Date of Visit
1	suresh	30	abcd	male	married	2020-03-18
2	vignesh	20	kolkaata	male	single	2021-01-01
3	Venkatesh B	2	mumbai	female	single	2021-03-27
4	Nirmal	23	thirumangalam	male	single	2021-03-29

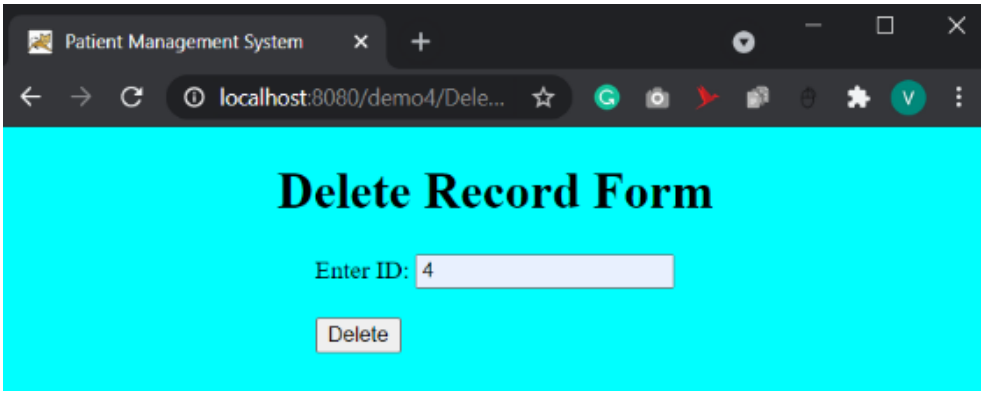
SearchRecord.html:



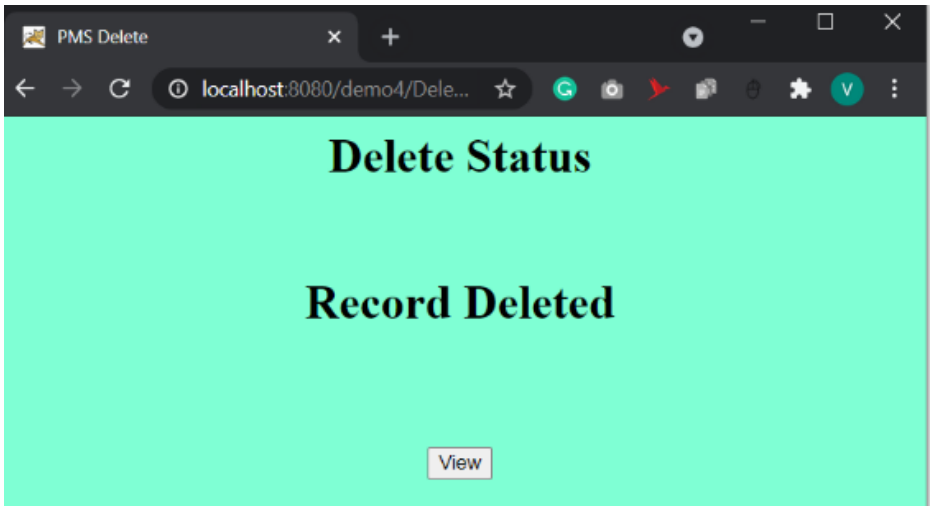
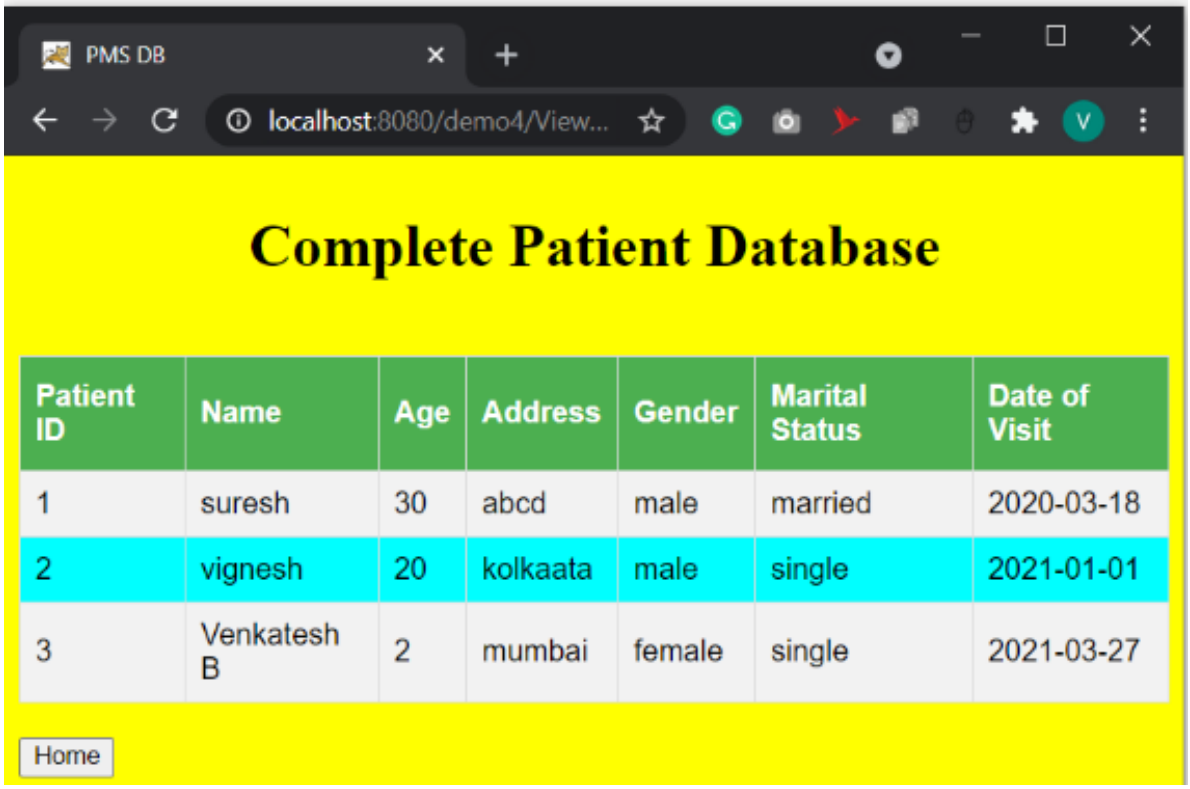
SearchRecord.java:



DeleteRecord.html:



DeleteRecord.java:



Latest DB: