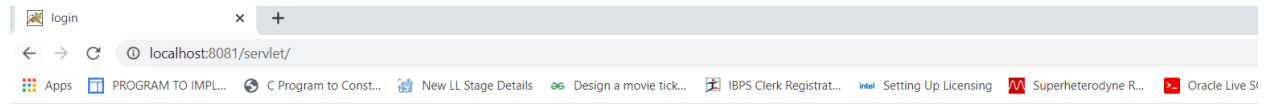


Exercise – 4

Form-Servlet Interaction

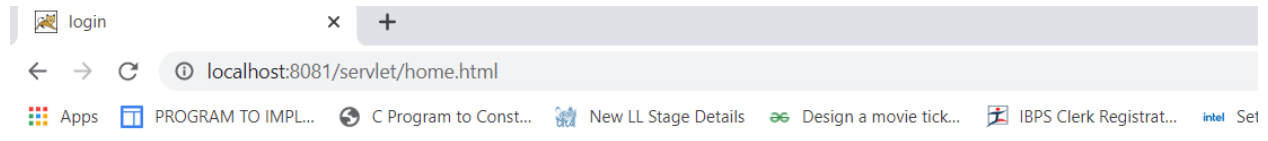
Gayathri M-185001050

Output And Code:



PATIENT MANAGEMENT SYSTEM ADMIN LOGIN

Username
Password



HOME

[Add Record](#)
[Update Record](#)
[Delete Record](#)
[View Records](#)
[Search Record](#)

localhost:8081/servlet/add.html

Enter details to add patient record

ID

Name

Age

Gender

Address

Marital Status

Date of visit

Disease

localhost:8081/servlet/update.html

Update Record

ID Address

localhost:8081/servlet/view

ID	Name	Age	Gender	Address	Marital Status	Date of visit	Disease Name
A1	Riya	40	F	Mogappair	M	2021-01-04	Cold

localhost:8081/servlet/delete.html

Delete Record

ID

localhost:8081/servlet/delete.html

Record deleted

localhost:8081/servlet/search.html

Search Record

ID

localhost:8081/servlet/View							
ID	Name	Age	Gender	Address	Marital Status	Date of visit	Disease Name
A2	John	30	M	Ambattur	Unmarried	2021-05-29	Cough
A3	Archana	20	F	Korattur	M	2021-03-10	Tuberculosis
A4	Anjana	50	F	Adambakkam	M	2021-09-23	Cold
A5	Shashank	35	F	T Nagar	Married	2021-07-16	Body Pain
A6	Riya	29	F	Kalavakkam	M	2021-01-04	Fever

CODE

Web.xml

```

<web-app>
<servlet>
<servlet-name>s13</servlet-name>
<servlet-class>TestServletd</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>s13</servlet-name>
<url-pattern>/TestServletd</url-pattern>
</servlet-mapping>
<servlet>
<servlet-name>add</servlet-name>
<servlet-class>Add</servlet-class>
</servlet><servlet-mapping>
<servlet-name>add</servlet-name>
<url-pattern>/Add</url-pattern>
</servlet-mapping>
<servlet>
<servlet-name>view</servlet-name>
<servlet-class>View</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>view</servlet-name>

```

```
<url-pattern>/View</url-pattern>
</servlet-mapping>
<servlet>
<servlet-name>update</servlet-name>
<servlet-class>Update</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>update</servlet-name>
<url-pattern>/Update</url-pattern>
</servlet-mapping>
<servlet>
<servlet-name>search</servlet-name>
<servlet-class>Search</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>search</servlet-name>
<url-pattern>/Search</url-pattern>
</servlet-mapping>
<servlet>
<servlet-name>delete</servlet-name>
<servlet-class>Delete</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>delete</servlet-name>
<url-pattern>/Delete</url-pattern>
</servlet-mapping>
</web-app>
```

login.html

```
<!DOCTYPE html>
<html>
<head>
<title>login</title>
</head>
<body>
<h1>PATIENT MANAGEMENT SYSTEM<br>ADMIN LOGIN</h2>
<h3>
```

```

<form align="center" name="myForm" action="TestServletd" method="get">
<label for="uname"><b>Username</b></label>
<input type="text" name="uname" required><br>
<label for="psw"><b>Password</b></label>
<input type="password" name="psw" required>
<input type="submit" value="Login">
</form>
</body>
</html>

```

TestServletd.java

```

import java.io.*;
import jakarta.servlet.*;
import jakarta.servlet.http.*;
import java.sql.*;
import java.util.*;
public class TestServletd extends HttpServlet
{
public void doGet(HttpServletRequest req,HttpServletResponse res)throws
IOException,ServletException
{
res.setContentType("text/html");
PrintWriter out=res.getWriter();
String n=req.getParameter("uname");
String username=req.getParameter("psw");
Connection conn=null;
try{
String url="jdbc:mysql://localhost:3306/sample";
String user="root";String password="Test1234@";
Class.forName("com.mysql.cj.jdbc.Driver");
conn=DriverManager.getConnection(url,user,password);
String msg="select * from admin where name='"+n+"' and
pw='"+username+"'";
PreparedStatement st=conn.prepareStatement(msg);
ResultSet ress = st.executeQuery();
if(ress.next())
{
ress.close();

```

```

res.sendRedirect("home.html");
}
else
{
out.print("invalid credentials");
}
out.close();
ress.close();
st.close();
}
catch(SQLException se)
{
se.printStackTrace();
}
catch(Exception e)
{
e.printStackTrace();
}
finally{
try{
if(conn!=null)
{
conn.close();
out.close();
}}
catch(SQLException se)
{
se.printStackTrace();
}}
}}
home.html
<!DOCTYPE html>
<html>
<head>
<title>login</title>
</head>
<body>

```

```
<h1>HOME</h2>
<h3>
<a href="add.html">Add Record</a><br>
<a href="update.html">Update Record</a><br>
<a href="delete.html">Delete Record</a><br>
<a href='View'>View Records</a><br>
<a href="search.html">Search Record</a><br>
</body>
</html>
```

add.html

```
<!DOCTYPE html>
<html>
<head>
<title>add</title>
</head>
<body>
<h2>Enter details to add patient record</h2>
<h3>
<form align="center" name="myForm" action="Add" method="get">
<label for="id"><b>ID</b></label>
<input type="text" name="id" required><br>
<label for="n"><b>Name</b></label>
<input type="text" name="n" required><br>
<label for="a"><b>Age</b></label>
<input type="text" name="a" required><br>
<label for="g"><b>Gender</b></label>
<input type="text" name="g" required><br>
<label for="addr"><b>Address</b></label><input type="text" name="addr"
required><br>
<label for="ms"><b>Marital Status</b></label>
<input type="text" name="ms" required><br>
<label for="d"><b>Date of visit</b></label>
<input type="date" name="d" required><br>
<label for="dis"><b>Disease</b></label>
<input type="text" name="dis" required><br>
<input type="submit" value="Submit">
</form>
```

```
</body>
```

```
</html>
```

Add.java

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

public class Add extends HttpServlet
{
    public void doGet(HttpServletRequest req,HttpServletResponse res)throws
    IOException,ServletException
    {
        res.setContentType("text/html");
        PrintWriter out=res.getWriter();
        String n=req.getParameter("uname");
        String username=req.getParameter("psw");
        Connection conn=null;
        try{
            String url="jdbc:mysql://localhost:3306/sample";
            String user="root";
            String password="Test1234@";
            Class.forName("com.mysql.cj.jdbc.Driver");
            conn=DriverManager.getConnection(url,user,password);
            String msg="insert into Patient_Details values(?,?,?,?,?,?,?,?)";
            PreparedStatement st=conn.prepareStatement(msg);
            st.setString(1,req.getParameter("id"));
            st.setString(2,req.getParameter("n"));
            st.setString(3,req.getParameter("a"));
            st.setString(4,req.getParameter("g"));
            st.setString(5,req.getParameter("addr"));
            st.setString(6,req.getParameter("ms"));
            st.setString(7,req.getParameter("d"));st.setString(8,req.getParameter("dis"));
            int i = st.executeUpdate();
            if(i==1)
            {
                out.print("Record added!");
            }
        }
    }
}
```



```

out.print("<form name=\"myForm\" action=\"View\"
method=\"get\"><input type=\"submit\" value=\"View\">");
}
out.close();
st.close();
}
catch(SQLException se)
{
se.printStackTrace();
}
catch(Exception e)
{
e.printStackTrace();
}
finally{
try{
if(conn!=null)
{
conn.close();
out.close();
}}
catch(SQLException se)
{
se.printStackTrace();
}
}
}
}

update.html
<!DOCTYPE html>
<html>
<head>
<title>update</title>
</head><body>
<h1>Update Record</h2>
<h3>
<form align="center" name="myForm" action="Update" method="get">

```

```
<label for="id"><b>ID</b></label>
<input type="text" name="id" required>
<label for="a"><b>Address</b></label>
<input type="text" name="a" required>
<input type="submit" value="Update">
</form>
</body>
</html>
```

Update.java

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

public class Update extends HttpServlet
{
    public void doGet(HttpServletRequest req,HttpServletResponse res)throws
    IOException,ServletException
    {
        res.setContentType("text/html");
        PrintWriter out=res.getWriter();
        Connection conn=null;
        try{
            String url="jdbc:mysql://localhost:3306/sample";
            String user="root";
            String password="Test1234@";
            Class.forName("com.mysql.cj.jdbc.Driver");
            conn=DriverManager.getConnection(url,user,password);
            String msg="update Patient_Details set address=? where id=?";
            PreparedStatement st=conn.prepareStatement(msg);
            st.setString(1,req.getParameter("a"));
            st.setString(2,req.getParameter("id"));int i = st.executeUpdate();
            if(i==1)
            {
                out.print("Record Updated!");
                out.print("<form name=\"myForm\" action=\"View\"
                method=\"get\"><input type=\"submit\" value=\"View\">");
            }
        }
    }
}
```

```

}
out.close();
st.close();
}
catch(SQLException se)
{
se.printStackTrace();
}
catch(Exception e)
{
e.printStackTrace();
}
finally{
try{
if(conn!=null)
{
conn.close();
out.close();
}}
catch(SQLException se)
{
se.printStackTrace();
}
}
}
}

```

search.html

```

<!DOCTYPE html>
<html>
<head>
<title>Search</title>
</head><body>
<h1>Search Record</h2>
<h3>
<form align="center" name="myForm" action="Search" method="get">
<label for="id"><b>ID</b></label>
<input type="text" name="id" required>

```

```
<input type="submit" value="Search">
</form>
</body>
</html>
```

Search.java

```
import java.io.*;
import jakarta.servlet.*;
import jakarta.servlet.http.*;
import java.sql.*;
import java.util.*;
public class Search extends HttpServlet
{
    public void doGet(HttpServletRequest req,HttpServletResponse res)throws
        IOException,ServletException
    {
        res.setContentType("text/html");
        PrintWriter out=res.getWriter();
        Connection conn=null;
        try{
            String url="jdbc:mysql://localhost:3306/sample";
            String user="root";
            String password="Test1234@";
            Class.forName("com.mysql.cj.jdbc.Driver");
            conn=DriverManager.getConnection(url,user,password);
            String msg="select * from Patient_Details where id=?";
            PreparedStatement ss=conn.prepareStatement(msg);
            ss.setString(1,req.getParameter("id"));
            ResultSet ress=ss.executeQuery();
            out.println("<html><body>");
            out.println("<table
border=1>");out.println("<tr><th>ID</th><th>Name</th><th>Age</th><th>Gende
r</th><th>Address</th><th>Marital Status</th><th>Date of
visit</th><th>Disease Name</th><tr>");
            String s1,s2,s3,s4,s5,s6,s7,s8;
            int flag=0;
            while(ress.next())
            {
```

```

flag=1;
s1=ress.getString(1);
s2=ress.getString(2);
s3=ress.getString(3);
s4=ress.getString(4);
s5=ress.getString(5);
s6=ress.getString(6);
s7=ress.getString(7);
s8=ress.getString(8);
out.print("<tr><td>" + s1 + "</td><td>" + s2 + "</td><td>" + s3 +
"</td><td>" + s4 + "</td><td>" + s5 + "</td><td>" + s6 + "</td><td>" + s7 +
"</td><td>" + s8 + "</td></tr>");
}
out.println("</table>");
out.println("</body></html>");
if(flag==0)
out.print("Record not found!");
ss.close();
ress.close();
out.print("<form name=\"myForm\" action=\"home.html\"
method=\"get\"><input type=\"submit\" value=\"Home\">");
out.close();
}
catch(SQLException se)
{
se.printStackTrace();
}
catch(Exception e)
{
e.printStackTrace();
}
finally{
try{
if(conn!=null)
{
conn.close();out.close();
}}
}

```

```

catch(SQLException se)
{
se.printStackTrace();
}
}
}
}

```

delete.html

```

<!DOCTYPE html>
<html>
<head>
<title>Delete</title>
</head>
<body>
<h1>Delete Record</h2>
<h3>
<form align="center" name="myForm" action="Delete" method="get">
<label for="id"><b>ID</b></label>
<input type="text" name="id" required>
<input type="submit" value="Delete">
</form>
</body>
</html>

```

Delete.java

```

import java.io.*;
import jakarta.servlet.*;
import jakarta.servlet.http.*;
import java.sql.*;
import java.util.*;
public class Delete extends HttpServlet
{
public void doGet(HttpServletRequest req,HttpServletResponse res)throws
IOException,ServletException
{res.setContentType("text/html");
PrintWriter out=res.getWriter();
Connection conn=null;

```

```

try{
String url="jdbc:mysql://localhost:3306/sample";
String user="root";
String password="Test1234@";
Class.forName("com.mysql.cj.jdbc.Driver");
conn=DriverManager.getConnection(url,user,password);
String msg="delete from Patient_Details where id=?";
PreparedStatement ss=conn.prepareStatement(msg);
ss.setString(1,req.getParameter("id"));
int i=ss.executeUpdate();
if(i==1)
{
out.print("Record Deleted!");
out.print("<form name=\"myForm\" action=\"View\"
method=\"get\"><input type=\"submit\" value=\"View\">");
}
else
{
out.print("Failed!");
out.print("<form name=\"myForm\" action=\"home.html\"
method=\"get\"><input type=\"submit\" value=\"Home\">");
}
ss.close();
out.close();
}
catch(SQLException se)
{
se.printStackTrace();
}
catch(Exception e)
{
e.printStackTrace();
}
finally{
try{
if(conn!=null)
{

```

```

conn.close();
out.close();}}
catch(SQLException se)
{
se.printStackTrace();
}
}
}}

```

View.java

```

import java.io.*;
import jakarta.servlet.*;
import jakarta.servlet.http.*;
import java.sql.*;
import java.util.*;
public class View extends HttpServlet
{
public void doGet(HttpServletRequest req,HttpServletResponse res)throws
IOException,ServletException
{
res.setContentType("text/html");
PrintWriter out=res.getWriter();
Connection conn=null;
try{
String url="jdbc:mysql://localhost:3306/sample";
String user="root";
String password="Test1234@";
Class.forName("com.mysql.cj.jdbc.Driver");
conn=DriverManager.getConnection(url,user,password);
String msg="select * from Patient_Details";
PreparedStatement ss=conn.prepareStatement(msg);
ResultSet ress=ss.executeQuery();
out.println("<html><body>");
out.println("<table border=1>");
out.println("<tr><th>ID</th><th>Name</th><th>Age</th><th>Gender</th><th>Ad
dre
ss</th><th>Marital Status</th><th>Date of visit</th><th>Disease
Name</th><tr>");

```



```

String s1,s2,s3,s4,s5,s6,s7,s8;
while(ress.next())
{
s1=ress.getString(1);s2=ress.getString(2);
s3=ress.getString(3);
s4=ress.getString(4);
s5=ress.getString(5);
s6=ress.getString(6);
s7=ress.getString(7);
s8=ress.getString(8);
out.print("<tr><td>" + s1 + "</td><td>" + s2 + "</td><td>" + s3 +
"</td><td>" + s4 + "</td><td>" + s5 + "</td><td>" + s6 + "</td><td>" + s7 +
"</td><td>" + s8 + "</td></tr>");
}
out.println("</table>");
out.println("</body></html>");
ss.close();
ress.close();
out.print("<form name=\"myForm\" action=\"home.html\"
method=\"get\"><input type=\"submit\" value=\"Home\">");
out.close();
}
catch(SQLException se)
{
se.printStackTrace();
}
catch(Exception e)
{
e.printStackTrace();
}
finally{
try{
if(conn!=null)
{
conn.close();
out.close();
}}
}

```

```
catch(SQLException se)
{
    se.printStackTrace();
}
}
}
```