


# Exercise – 6

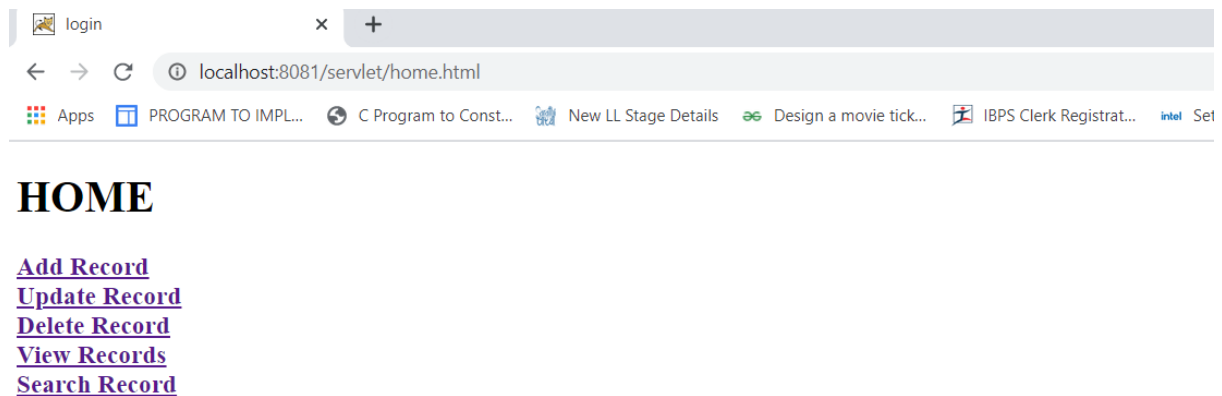
## Patient Management System (PMS)

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### Output And Code:



A screenshot of a web browser showing the login page of a Patient Management System. The browser's address bar displays 'localhost:8081/servlet/'. The page title is 'PATIENT MANAGEMENT SYSTEM ADMIN LOGIN'. Below the title, there is a login form with two input fields: 'Username' containing the text 'admin' and 'Password' containing seven dots. To the right of the password field is a 'Login' button. The browser's tab bar shows a single tab titled 'login'.



A screenshot of a web browser showing the home page of the Patient Management System after a successful login. The browser's address bar displays 'localhost:8081/servlet/home.html'. The page title is 'HOME'. Below the title, there is a list of links: 'Add Record', 'Update Record', 'Delete Record', 'View Records', and 'Search Record'. The browser's tab bar shows a single tab titled 'login'.

add

localhost:8081/servlet/add.html

AppsPROGRAM TO IMPL...C Program to Const...New LL Stage DetailsDesign a movie tick...IBPS Clerk Registrat...Setting Up LicensingSuperheterodyne R...Oracle Live SQL

## Enter details to add patient record

ID

A6

Name

Yashaswi

Age

40

Gender

M

Address

T.Nagar

Marital Status

M

Date of visit

04/01/2021

Disease

Cough

Submit

localhost:8081/servlet/Add?id=A

localhost:8081/servlet/Add?id=A6&n=Yashaswi&a=40&g=M&addr=T.Nagar&ms=M&d=2021-04-01&dis=Cough

AppsPROGRAM TO IMPL...C Program to Const...New LL Stage DetailsDesign a movie tick...IBPS Clerk Registrat...Setting Up LicensingSuperheterodyne

1Record added!

View

update

localhost:8081/servlet/update.html

AppsPROGRAM TO IMPL...C Program to Const...New LL Stage DetailsDesign a movie tick...IBPS Clerk Registrat...Setting Up LicensingSuperheterodyne R...Oracle Live SQL - S...

## Update Record

ID

A6

Address

Anna Nagar

Update

localhost:8081/servlet/Update?id=

×

+

←

→

↺

localhost:8081/servlet/Update?id=A6&a=Anna+Nagar

Apps

PROGRAM TO IMPL...

C Program to Const...

New LL Stage Details

Design a movie tick...

IBPS Clerk Registrat...

in

Record Updated!

View

Delete

×

+

←

→

↺

localhost:8081/servlet/delete.html

Apps

PROGRAM TO IMPL...

C Program to Const...

New LL Stage Details

Design a movie tick...

IBPS Clerk Registrat...

Setting Up Licensing

Superhetero

Delete Record

ID

A1

Delete

localhost:8081/servlet/Delete?id=

x

+

localhost:8081/servlet/Delete?id=A1

AppsPROGRAM TO IMPL...C Program to Const...New LL Stage DetailsDesign a movie tick...IBPS Clerk Registrat...intelSetting Up Licens

Record Deleted!

View

localhost:8081/servlet/View

x

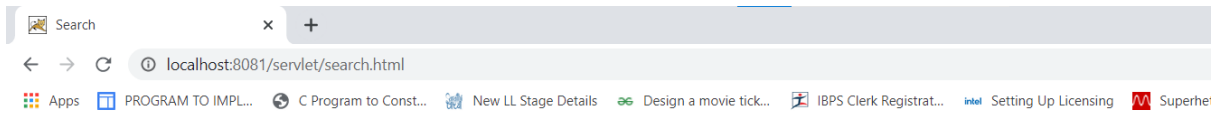
+

localhost:8081/servlet/View

AppsPROGRAM TO IMPL...C Program to Const...New LL Stage DetailsDesign a movie tick...IBPS Clerk Registr

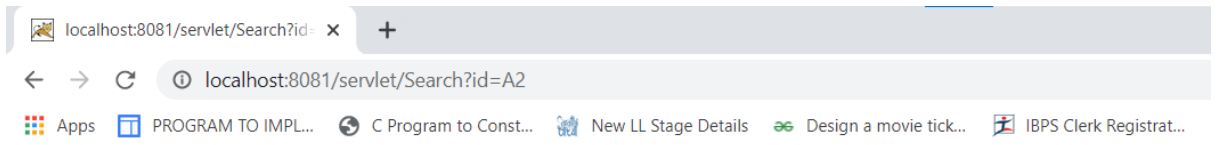
ID	Name	Age	Gender	Address	Marital Status	Date of visit	Disease Name
A2	Tharun	16	M	Sholingur	Unmarried	2021-02-09	Fever
A3	Hanthra	31	F	Adambakkam,Chennai	Married	1989-06-29	Throat Pain
A4	Jack	10	M	Velachery	Unmarried	2011-06-13	Low Immunity
A5	Karan	20	M	Ramakrishna Nagar	Unmarried	2021-02-16	Sprain
A6	Yashaswi	40	M	Anna Nagar	M	2021-04-01	Cough

Home



## Search Record

ID



ID	Name	Age	Gender	Address	Marital Status	Date of visit	Disease Name
A2	Tharun	16	M	Sholingur	Unmarried	2021-02-09	Fever

[Home](#)

## 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="Life.123#";
        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="Life.123#";
            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="Life.123#";
            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="Life.123#";
            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>Gender</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="Life.123#";
    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="Life.123#";
            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>Addre
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();
    }
}

}

}

```

