Servlets - Request Dispatcher

Ex#1 Static Data Checking

web.xml:-

```
<welcome-file-list>
    <welcome-file>Login.html</welcome-file>
  </welcome-file-list>
  <servlet>
    <servlet-name>hp</servlet-name>
    <servlet-class>com.app.HomePageServlet</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>hp</servlet-name>
    <url-pattern>/home</url-pattern>
  </servlet-mapping>

  <servlet>
    <servlet-name>lcs</servlet-name>
    <servlet-class>com.app.LoginCheckServlet</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>lcs</servlet-name>
    <url-pattern>/logincheck</url-pattern>
  </servlet-mapping>
```

Login.html:-

```html
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<h3>Welcome to Login Page</h3>
<form action="logincheck" method="post">
<pre>
User    : <input type="text" name="un"/>
Password: <input type="password" name="pwd"/>
<input type="submit" value="Login"/>
</pre>
</form>
</body>
</html>
```

HomePageServlet.java:-

```java
package com.app;

import java.io.IOException;
import java.io.PrintWriter;
import java.util.Date;

import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

public class HomePageServlet
extends HttpServlet
{

    public void doPost(HttpServletRequest
req,HttpServletResponse resp)
            throws ServletException,IOException
    {

            PrintWriter out=resp.getWriter();
            out.println("Welcome to User!!");
            out.println(new Date());
    }

}
```

LoginCheckServlet.java:-

```java
package com.app;

import java.io.IOException;
import java.io.PrintWriter;

import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

public class LoginCheckServlet
    extends HttpServlet
{

    @Override
    protected void doPost(HttpServletRequest req,
HttpServletResponse resp) throws ServletException,
IOException {

        resp.setContentType("text/html");

        //1. read form data
        String un=req.getParameter("un");
        String pwd=req.getParameter("pwd");

        //2. verify data
        if("admin".equals(un) &&
                "sathya".equals(pwd)) {
            //goto HomePage

            RequestDispatcher
rd=req.getRequestDispatcher("/home");
            rd.forward(req, resp);
        }else {
            //include Login Page with error message
```

```java
            PrintWriter out=resp.getWriter();
            out.println("<div style='color:blue'>Invalid
user/password found</div>");

            RequestDispatcher
rd=req.getRequestDispatcher("Login.html");
            rd.include(req, resp);

        }
    }
}
```

Example #2 Verify with DB:-

==(add below class and ojdbc.jar)==
LoginJdbc.java

```java
package com.app;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;

public class LoginJdbc {

    public static boolean isExist(String un,String pwd) {
        boolean flag=false;
        String sql="select * from userstab where un=? and pwd=?";
        try {

    Class.forName("oracle.jdbc.driver.OracleDriver");
            Connection con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:ORCL","sathya","sathya");
            PreparedStatement pstmt=con.prepareStatement(sql);

            pstmt.setString(1, un);
            pstmt.setString(2, pwd);

            ResultSet rs=pstmt.executeQuery();

            if(rs.next()) { //data exist
                flag=true;
            }else {
                //data not exist
                flag=false;
            }
```

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


            return flag;
        }

}
```

Modify LoginCheckServlet.java:-

```java
package com.app;

import java.io.IOException;
import java.io.PrintWriter;

import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

public class LoginCheckServlet
    extends HttpServlet
{

    @Override
    protected void doPost(HttpServletRequest req,
HttpServletResponse resp) throws ServletException,
IOException {

            resp.setContentType("text/html");

            //1. read form data
```

```java
        String un=req.getParameter("un");
        String pwd=req.getParameter("pwd");

        //2. verify data
        if(LoginJdbc.isExist(un, pwd)) {
            //goto HomePage
            RequestDispatcher
rd=req.getRequestDispatcher("/home");
            rd.forward(req, resp);
        }else {
            //include Login Page with error message
            PrintWriter out=resp.getWriter();
            out.println("<div style='color:blue'>Invalid
user/password found</div>");

            RequestDispatcher
rd=req.getRequestDispatcher("Login.html");
            rd.include(req, resp);

        }
    }
}
```

Create DB Table:-

create table userstab(un varchar2(20),pwd varchar2(20));

insert into userstab values('sathya','admin');

insert into userstab values('sam','sam');

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-- THANKYOU--