

CREATE WEB APPLICATION FOR LOGIN FORM VALIDATION - SERVLET - JDBC - MYSQL

1. COLLEGE NAME : NRI INSTITUTE OF
TECHNOLOGY
YEAR : 2ND YEAR

INTERNSHIP FINAL PROJECT ALLOCATION

2.

SNO : 28
GROUP : CSE-B
ROLL NUMBERS : 21KN1A05C9

21KN1A0587

1.INTRODUCTION

1.1 BRIEF PROJECT DESCRIPTION

In this section we are going to discuss the implementation of a complete Login application

The application will

The application will

1. Ask the user to input his "username" and "password"
2. Check the existence of this user in the Data Base
3. If exists, Retrieve his first name and last name from the DB and display them
4. If not registered, Display "Sorry, you are not registered"

2.HARDWARE AND SOFTWARE INTERFACES:

Following software is used to develop a web based application :

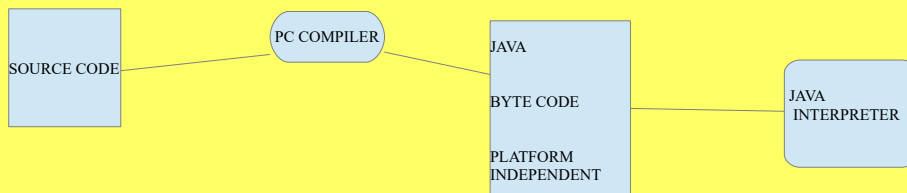
Client Site:

Processor	: Intel Pentium IV
Speed	: 2.00GHz
RAM	: 1 GB
Hard Disk	: 150 GB
Key Board (104 keys)	: Standard
Screen Resolution	: 1024 x 768 Pixels

Server Site:

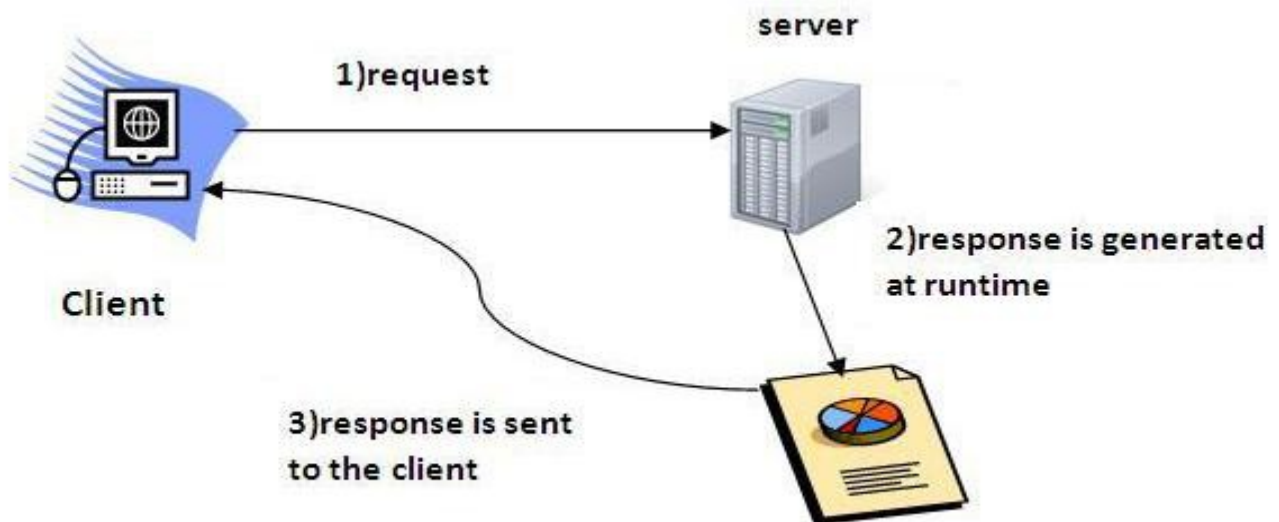
Processor	: Intel Pentium IV
Speed	: 2.00GHz
RAM	: 1 GB
Hard Disk	: 150 GB
Key Board (104 keys)	:Standard

COMPILING AND INTERPRETING JAVA SOURCE CODE



SERVLET:

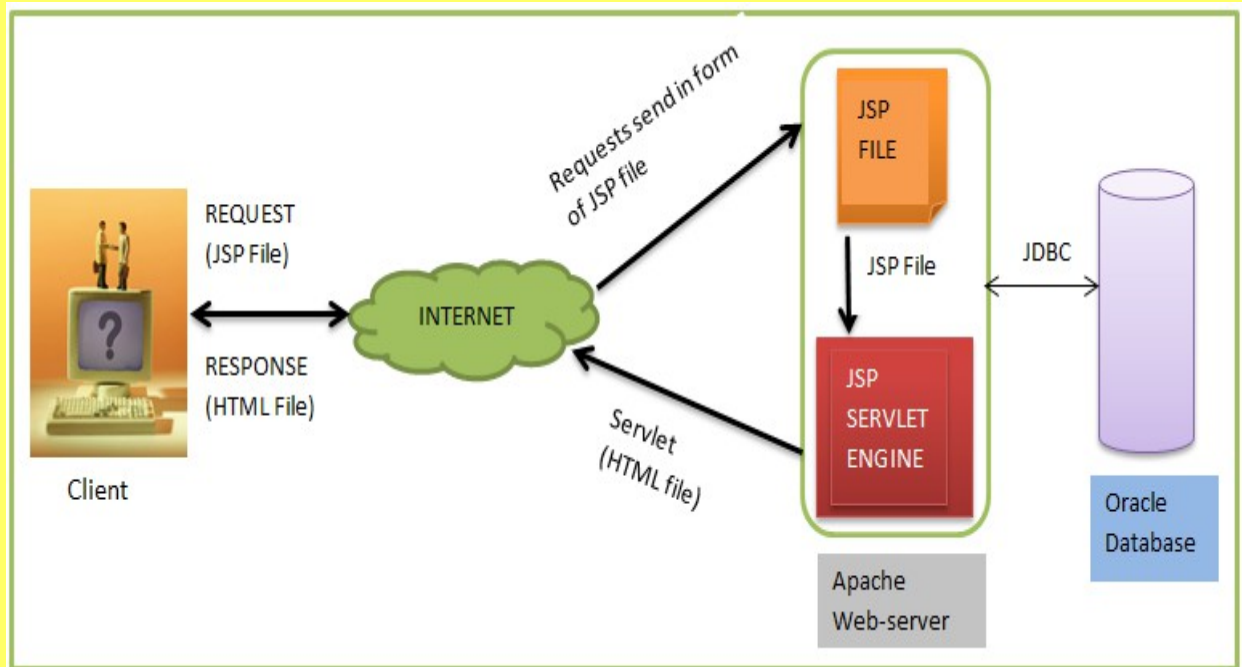
Servlet can be described in many ways, depending on the context. Servlet is a technology i.e. used to create web application. Servlet is an API provides many interfaces and classes including documentations. Servlet is an interface that must be implemented for creating any servlet. Servlet is a class that extend the capabilities of the servers and respond to the incoming request. It can respond to any type of requests. Servlet is a web component that is deployed on the server to create dynamic web page.



JSP

Java Server Pages (JSP) is a server-side programming technology that enables the creation of dynamic, platform-independent method for building Web-based

applications. JSP have access to kthe entire family of Java APIs, including the JDBC API to access enterprise databases. This tutorial will teach you how to use Java Server Pages to develop your web applications in simple and easy steps.



COMPILING AND INTERPRETING JAVA SOURCE CODE

INSTALL JDK,JRE
APACHE AND
ECLLIPSE

DOWNLOAD
MYSQL
CONNECTOR

CONNECT THE
ECLLIPSE AND
APACHE

CONNECT
ECLLIPSE AND
DATABASE

ENTER
USERNAME
AND
PASSWORD

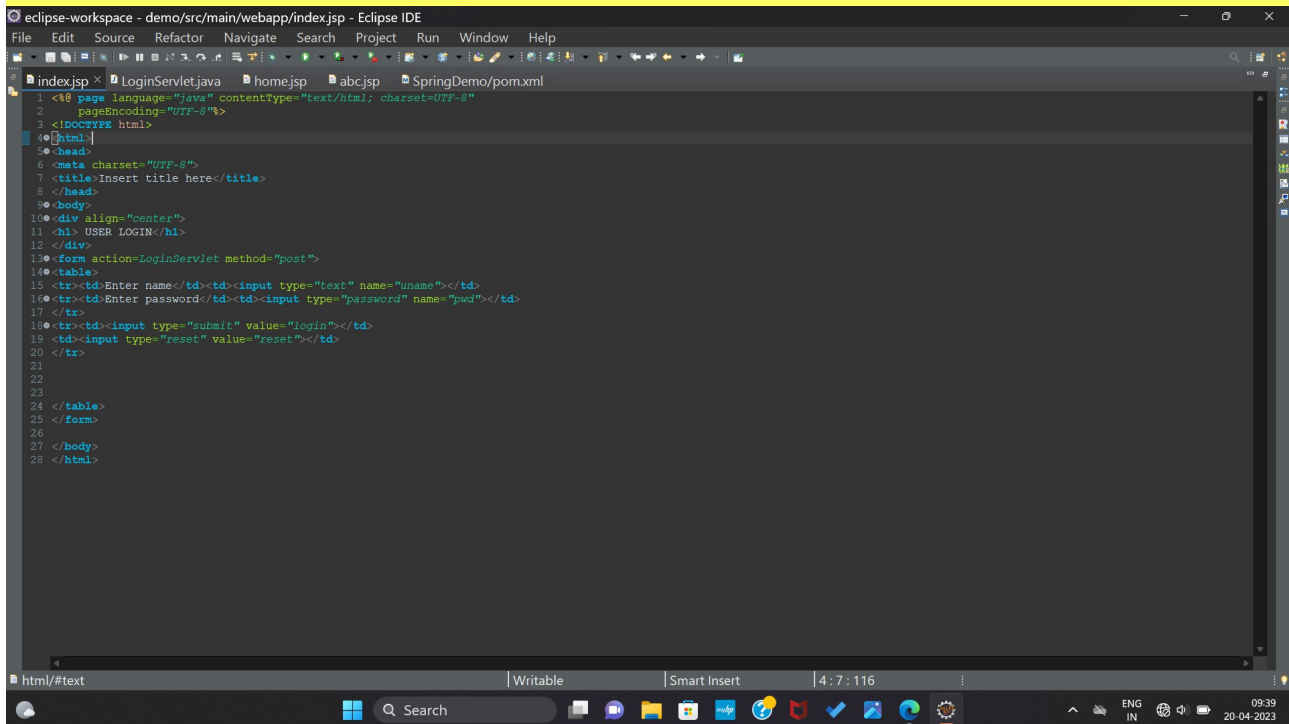
Implementation Steps

To have this JSP, please follow these steps:

- Open eclipse
- Create a new "Dynamic Web Project"
- Name it "LoginExample"
- Create the JSP
 - In the "Web Content" folder, create a new JSP
 - Name it "LoginPage"

Place this code

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
<div align="center">
<h1> USER LOGIN</h1>
</div>
<form action=LoginServlet method="post">
<table>
<tr><td>Enter name</td><td><input type="text" name="uname"></td>
<tr><td>Enter password</td><td><input type="password" name="pwd"></td>
</tr>
<tr><td><input type="submit" value="login"></td>
<td><input type="reset" value="reset"></td>
</tr>
</table>
</form>
</body>
</html>
```



```
1 <!-- page language="java" contentType="text/html; charset=UTF-8"
2     pageEncoding="UTF-8"%>
3 <!DOCTYPE html>
4 <html>
5 <head>
6 <meta charset="UTF-8">
7 <title>Insert title here</title>
8 </head>
9 <body>
10 <div align="center">
11 <h1> USER LOGIN</h1>
12 </div>
13 <form action=LoginServlet method="post">
14 <table>
15 <tr><td>Enter name</td><td><input type="text" name="uname"></td>
16 <tr><td>Enter password</td><td><input type="password" name="pwd"></td>
17 </tr>
18 <tr><td><input type="submit" value="login"></td>
19 <td><input type="reset" value="reset"></td>
20 </tr>
21
22
23
24 </table>
25 </form>
26
27 </body>
28 </html>
```

Create the LoginServlet by following these steps:

- In the "src" folder, create a new "Package"
- Name it "ExamplePackage"
- In the "ExamplePackage", create a new "Servlet"
- Name it "LoginServlet"
- Place this code

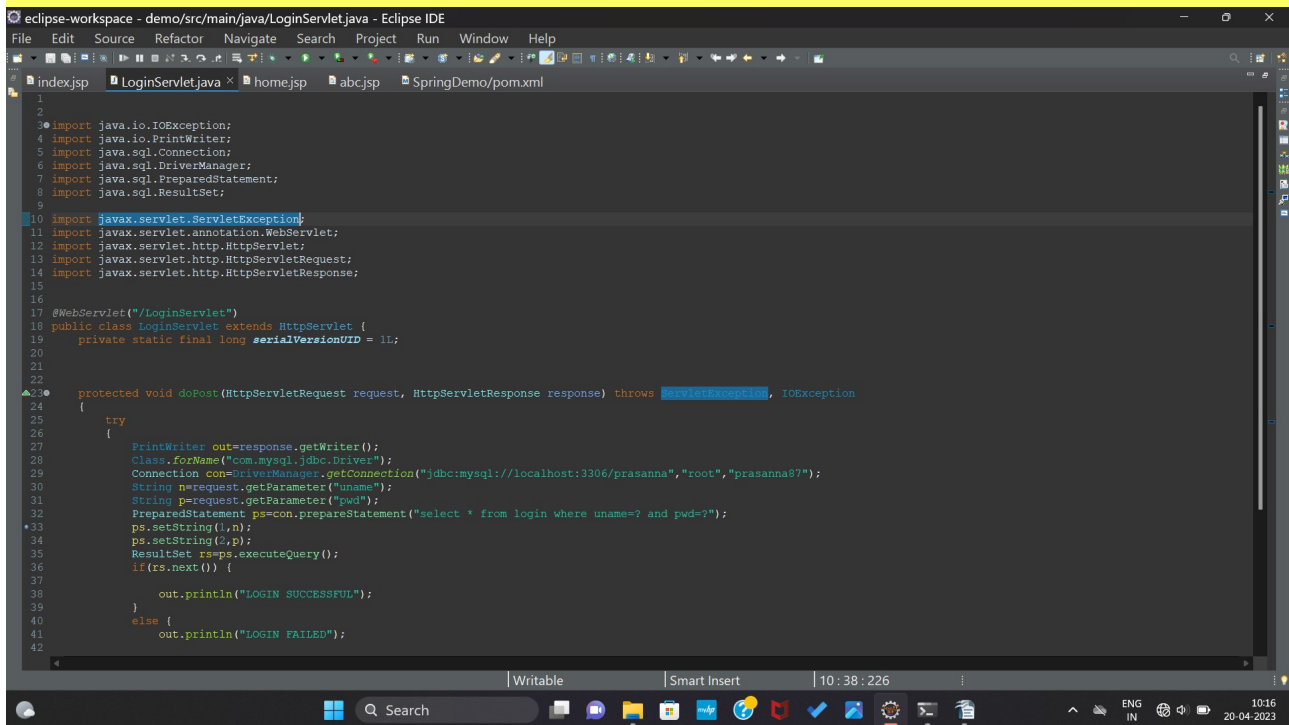
```
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
```

```
import java.sql.ResultSet;

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

@WebServlet("/LoginServlet")
public class LoginServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;
    protected void doPost(HttpServletRequest request,
        HttpServletResponse response) throws ServletException,
        IOException
    {
        try
        {
            PrintWriter out=response.getWriter();
            Class.forName("com.mysql.jdbc.Driver");
            Connection
            con=DriverManager.getConnection("jdbc:mysql://localhost:3
            306/prasanna","root","prasanna87");
            String n=request.getParameter("uname");
            String p=request.getParameter("pwd");
            PreparedStatement ps=con.prepareStatement("select * from
            login where uname=? and pwd=?");
            ps.setString(1,n);
            ps.setString(2,p);
            ResultSet rs=ps.executeQuery();
            if(rs.next()) {
                out.println("LOGIN SUCCESSFUL");
            }
            else {
                out.println("LOGIN FAILED");
            }
        }
    }
}
```

```
}  
}  
catch(Exception e)  
{  
  
PrintWriter out=response.getWriter();  
out.println(e);  
  
}  
}  
  
}
```



```
eclipse-workspace - demo/src/main/java/LoginServlet.java - Eclipse IDE  
File Edit Source Refactor Navigate Search Project Run Window Help  
index.jsp LoginServlet.java home.jsp abc.jsp SpringDemo/pom.xml  
1  
2  
3 import java.io.IOException;  
4 import java.io.PrintWriter;  
5 import java.sql.Connection;  
6 import java.sql.DriverManager;  
7 import java.sql.PreparedStatement;  
8 import java.sql.ResultSet;  
9  
10 import javax.servlet.ServletException;  
11 import javax.servlet.annotation.WebServlet;  
12 import javax.servlet.http.HttpServlet;  
13 import javax.servlet.http.HttpServletRequest;  
14 import javax.servlet.http.HttpServletResponse;  
15  
16  
17 @WebServlet("/LoginServlet")  
18 public class LoginServlet extends HttpServlet {  
19     private static final long serialVersionUID = 1L;  
20  
21  
22  
23     protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException  
24     {  
25         try  
26         {  
27             PrintWriter out=response.getWriter();  
28             Class.forName("com.mysql.jdbc.Driver");  
29             Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/prasanna","root","prasanna87");  
30             String uname=request.getParameter("uname");  
31             String pwd=request.getParameter("pwd");  
32             PreparedStatement ps=con.prepareStatement("select * from login where uname=? and pwd=?");  
33             ps.setString(1,uname);  
34             ps.setString(2,pwd);  
35             ResultSet rs=ps.executeQuery();  
36             if(rs.next()) {  
37  
38                 out.println("LOGIN SUCCESSFUL");  
39             }  
40             else {  
41                 out.println("LOGIN FAILED");  
42             }  
43         }  
44         catch (Exception e)  
45         {  
46             out.println(e);  
47         }  
48     }  
49 }  
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```
eclipse-workspace - demo/src/main/java/LoginServlet.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
index.jsp LoginServlet.java x home.jsp abc.jsp SpringDemo/pom.xml
15
16
17 @WebServlet("/LoginServlet")
18 public class LoginServlet extends HttpServlet {
19     private static final long serialVersionUID = 1L;
20
21
22
23     protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException
24     {
25         try
26         {
27             PrintWriter out=response.getWriter();
28             Class.forName("com.mysql.jdbc.Driver");
29             Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/prasanna","root","prasanna@?");
30             String uname=request.getParameter("uname");
31             String pwd=request.getParameter("pwd");
32             PreparedStatement ps=con.prepareStatement("select * from login where uname=? and pwd=?");
33             ps.setString(1,uname);
34             ps.setString(2,pwd);
35             ResultSet rs=ps.executeQuery();
36             if(rs.next()) {
37                 out.println("LOGIN SUCCESSFUL");
38             }
39             else {
40                 out.println("LOGIN FAILED");
41             }
42         }
43     }
44     catch(Exception e)
45     {
46         PrintWriter out=response.getWriter();
47         out.println(e);
48     }
49 }
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```

Writable Smart Insert 10:38:226

Search

ENG IN 10:16 20-04-2023

DATABASE :

```
MySQL 8.0 Command | x + v
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 24
Server version: 8.0.32 MySQL Community Server - GPL

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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 prasanna
Database changed
mysql> select * from login;
+-----+-----+
| uname | pwd  |
+-----+-----+
| sai   | 1234 |
| ravi  | 5678 |
+-----+-----+
2 rows in set (0.00 sec)

mysql>
```

OUTPUT:

