 Marwadi University Marwadi Chandarana Group	Marwadi University Faculty of Engineering and Technology Department of Information and Communication Technology	
Subject: Advance Java (01CT1623)	Aim: Create one user login registration page in jsp with all required form fields and insert into database. insertion of data done at servlet level where connection method is created in servlet. Accept the client <code>HttpServletRequest</code> . (JDBC-Servlet-JSP)	
Experiment No: 14	Date: 21/4/2025	Enrolment No: 92200133003

Step 1: Create a new Project with Webapp Configuration.

Step 2: Add necessary configurations in the POM.XML file

Registration.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1" pageEncoding="ISO-8859-1"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Registration</title>
</head>
<body>
  <h2>User Registration</h2>
  <form action="register" method="post">
    <label for="username">Username:</label>
    <input type="text" id="username" name="username" required /><br>

    <label for="password">Password:</label>
    <input type="password" id="password" name="password" required /><br>


    <label for="email">Email:</label>
    <input type="email" id="email" name="email" required /><br>

    <label for="fullname">Full Name:</label>
    <input type="text" id="fullname" name="fullname" required /><br>

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

Registerservlet.java

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

 Marwadi University Marwadi Chandarana Group	Marwadi University Faculty of Engineering and Technology Department of Information and Communication Technology	
Subject: Advance Java (01CT1623)	Aim: Create one user login registration page in jsp with all required form fields and insert into database. insertion of data done at servlet level where connection method is created in servlet. Accept the client <code>HttpServletRequest</code> . (JDBC-Servlet-JSP)	
Experiment No: 14	Date: 21/4/2025	Enrolment No: 92200133003

```

public class RegisterServlet extends HttpServlet {
    private static final String DB_URL = "jdbc:mysql://localhost:3306/aj_practicals";
    private static final String DB_USER = "root";
    private static final String DB_PASSWORD = "";


    // JDBC connection method
    private Connection getConnection() throws SQLException {
        return DriverManager.getConnection(DB_URL, DB_USER, DB_PASSWORD);
    }

    // Handle POST request to register a user
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        String username = request.getParameter("username");
        String password = request.getParameter("password");
        String email = request.getParameter("email");
        String fullname = request.getParameter("fullname");

        // Insert user into the database
        try (Connection connection = getConnection()) {
            String sql = "INSERT INTO users (username, password, email, fullname) VALUES (?, ?, ?, ?)";
            try (PreparedStatement stmt = connection.prepareStatement(sql)) {
                stmt.setString(1, username);
                stmt.setString(2, password); // In real applications, hash the password
                stmt.setString(3, email);
                stmt.setString(4, fullname);

                int rowsInserted = stmt.executeUpdate();
                if (rowsInserted > 0) {
                    response.sendRedirect("login.jsp"); // Redirect to login page after successful registration
                } else {
                    response.getWriter().println("Error registering user.");
                }
            }
        } catch (SQLException e) {
            e.printStackTrace();
            response.getWriter().println("Error: " + e.getMessage());
        }
    }
}

```

 Marwadi University Marwadi Chandarana Group	Marwadi University Faculty of Engineering and Technology Department of Information and Communication Technology	
Subject: Advance Java (01CT1623)	Aim: Create one user login registration page in jsp with all required form fields and insert into database. insertion of data done at servlet level where connection method is created in servlet. Accept the client <code>HttpServletRequest</code> . (JDBC-Servlet-JSP)	
Experiment No: 14	Date: 21/4/2025	Enrolment No: 92200133003

login.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1" pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Login</title>
</head>
<body>
    <h2>User Login</h2>
    <form action="login" method="post">
        <label for="username">Username:</label>
        <input type="text" id="username" name="username" required /><br>

        <label for="password">Password:</label>
        <input type="password" id="password" name="password" required /><br>

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

```

LoginServlet.java

```


import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.sql.*;

public class LoginServlet extends HttpServlet {
    private static final String DB_URL = "jdbc:mysql://localhost:3306/aj_practicals";
    private static final String DB_USER = "root";
    private static final String DB_PASSWORD = "";

    private Connection getConnection() throws SQLException {
        return DriverManager.getConnection(DB_URL, DB_USER, DB_PASSWORD);
    }

    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws

```

 Marwadi University Marwadi Chandarana Group	Marwadi University Faculty of Engineering and Technology Department of Information and Communication Technology	
Subject: Advance Java (01CT1623)	Aim: Create one user login registration page in jsp with all required form fields and insert into database. insertion of data done at servlet level where connection method is created in servlet. Accept the client <code>HttpServletRequest</code> . (JDBC-Servlet-JSP)	
Experiment No: 14	Date: 21/4/2025	Enrolment No: 92200133003

```

ServletException, IOException {
    String username = request.getParameter("username");
    String password = request.getParameter("password");

    try (Connection connection = getConnection()) {
        String sql = "SELECT * FROM users WHERE username = ? AND password = ?";
        try (PreparedStatement stmt = connection.prepareStatement(sql)) {
            stmt.setString(1, username);
            stmt.setString(2, password);

            try (ResultSet rs = stmt.executeQuery()) {
                if (rs.next()) {
                    // User authenticated successfully
                    response.sendRedirect("welcome.jsp");
                } else {
                    response.getWriter().println("Invalid username or password.");
                }
            }
        }
    } catch (SQLException e) {
        e.printStackTrace();
        response.getWriter().println("Error: " + e.getMessage());
    }
}
}

```

web.xml

```


<!DOCTYPE web-app PUBLIC
    "-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN"
    "http://java.sun.com/dtd/web-app_2_3.dtd">

<web-app>
    <display-name>Archetype Created Web Application</display-name>

    <!-- All <servlet> elements first -->
    <servlet>
        <servlet-name>RegisterServlet</servlet-name>
        <servlet-class>RegisterServlet</servlet-class>
    </servlet>

    <servlet>

```

 Marwadi University Marwadi Chandarana Group	Marwadi University Faculty of Engineering and Technology Department of Information and Communication Technology	
Subject: Advance Java (01CT1623)	Aim: Create one user login registration page in jsp with all required form fields and insert into database. insertion of data done at servlet level where connection method is created in servlet. Accept the client <code>HttpServletRequest</code> . (JDBC-Servlet-JSP)	
Experiment No: 14	Date: 21/4/2025	Enrolment No: 92200133003

```
<servlet-name>LoginServlet</servlet-name>
<servlet-class>LoginServlet</servlet-class>
</servlet>
```

```
<!-- All <servlet-mapping> elements after -->
<servlet-mapping>
  <servlet-name>RegisterServlet</servlet-name>
  <url-pattern>/register</url-pattern>
</servlet-mapping>
```


```
<servlet-mapping>
  <servlet-name>LoginServlet</servlet-name>
  <url-pattern>/login</url-pattern>
</servlet-mapping>
</web-app>
```

Welcome.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<%
    String username = (String) session.getAttribute("username");
    if (username == null) {
        response.sendRedirect("login.jsp");
        return;
    }
%>
<!DOCTYPE html>
<html>
<head>
  <title>Welcome</title>
</head>
<body>
  <h1>Welcome, <%= username %>!</h1>
  <p>You have successfully logged in.</p>
  <a href="logout.jsp">Logout</a>
</body>
</html>
```

Logout.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<%
```

 Marwadi University Marwadi Chandarana Group	Marwadi University Faculty of Engineering and Technology Department of Information and Communication Technology	
Subject: Advance Java (01CT1623)	Aim: Create one user login registration page in jsp with all required form fields and insert into database. insertion of data done at servlet level where connection method is created in servlet. Accept the client <code>HttpServletRequest</code> . (JDBC-Servlet-JSP)	
Experiment No: 14	Date: 21/4/2025	Enrolment No: 92200133003

```

session.invalidate();
response.sendRedirect("login.jsp");
%>

```

Output:

User Registration

Username:

Password:

Email:

Full Name:

☐
 Edit
 Copy
 Delete
 2 Prashant Sarvaiya 123
 prashant@gmail.com Prashant Sarvaiya

User Login

Username:

Password:

Welcome, Prashant Sarvaiya!

You have successfully logged in.

[Logout](#)