**Objective:-** 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 httpServletRequest. (JDBC-Servlet-JSP)

**Code :-**

**pom.xml**

<dependency>  
 <groupId>mysql</groupId>  
 <artifactId>mysql-connector-java</artifactId>  
 <version>5.1.5</version>  
</dependency>

<dependency>  
 <groupId>javax.servlet</groupId>  
 <artifactId>javax.servlet-api</artifactId>  
 <version>4.0.1</version>  
</dependency>

**src/main/webapp/register.jsp**

<%@ page contentType="text/html;charset=UTF-8" %>  
<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta charset="UTF-8">  
 <title>User Registration</title>  
  
 <!-- Google Fonts: Poppins -->  
 <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;600&display=swap" rel="stylesheet">  
  
 <style>  
 \* {  
 box-sizing: border-box;  
 margin: 0;  
 padding: 0;  
 font-family: 'Poppins', sans-serif;  
 }  
  
 body {  
  
 background: linear-gradient(to right, #6dd5fa, #2980b9);  
 display: flex;  
 justify-content: center;  
 align-items: center;  
 height: 100vh;  
 }  
  
 .form-container {  
 background: #ffffff;  
 padding: 40px 30px;  
 width: 100%;  
 max-width: 450px;  
 border-radius: 15px;  
 box-shadow: 0 10px 25px rgba(0, 0, 0, 0.15);  
 }  
  
 .form-container h2 {  
 text-align: center;  
 margin-bottom: 25px;  
 color: #2c3e50;  
 font-weight: 600;  
 }  
  
 .form-group {  
 margin-bottom: 18px;  
 }  
  
 .form-group input,  
 .form-group select {  
 width: 100%;  
 padding: 12px 14px;  
 border-radius: 8px;  
 border: 1px solid #ccc;  
 font-size: 14px;  
 background-color: #f9f9f9;  
 transition: border 0.3s ease, box-shadow 0.3s ease;  
 }  
  
 .form-group input:focus,  
 .form-group select:focus {  
 border-color: #3498db;  
 box-shadow: 0 0 5px rgba(52, 152, 219, 0.3);  
 outline: none;  
 background-color: #fff;  
 }  
  
 button {  
 width: 100%;  
 padding: 14px;  
 background-color: #3498db;  
 border: none;  
 color: #fff;  
 font-size: 15px;  
 border-radius: 8px;  
 font-weight: 500;  
 cursor: pointer;  
 transition: background 0.3s ease;  
 }  
  
 button:hover {  
 background-color: #2980b9;  
 }  
  
 @media (max-width: 500px) {  
 .form-container {  
 padding: 25px 20px;  
 }  
 }  
 </style>  
</head>  
<body>  
  
<div class="form-container">  
 <h2>User Registration</h2>  
 <form action="RegisterServlet" method="post">  
 <div class="form-group">  
 <input type="text" name="fullName" placeholder="Full Name" required />  
 </div>  
 <div class="form-group">  
 <input type="email" name="email" placeholder="Email Address" required />  
 </div>  
 <div class="form-group">  
 <input type="text" name="username" placeholder="Username" required />  
 </div>  
 <div class="form-group">  
 <input type="password" name="password" placeholder="Password" required />  
 </div>  
 <div class="form-group">  
 <input type="text" name="phone" placeholder="Phone Number" required />  
 </div>  
 <div class="form-group">  
 <select name="gender" required>  
 <option value="">Select Gender</option>  
 <option>Male</option>  
 <option>Female</option>  
 <option>Other</option>  
 </select>  
 </div>  
 <div class="form-group">  
 <input type="date" name="dob" required />  
 </div>  
 <button type="submit">Register</button>  
 </form>  
</div>  
  
</body>  
</html>

**src/main/webapp/success.jsp**

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta charset="UTF-8">  
 <title>Success</title>  
  
 <!-- Google Font: Poppins -->  
 <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;600&display=swap" rel="stylesheet">  
  
 <style>  
 body {  
 font-family: 'Poppins', sans-serif;  
 background: linear-gradient(to right, #6dd5fa, #2980b9);  
 height: 100vh;  
 display: flex;  
 justify-content: center;  
 align-items: center;  
 margin: 0;  
 }  
  
 .success-container {  
 background-color: #ffffff;  
 padding: 40px 30px;  
 text-align: center;  
 border-radius: 15px;  
 box-shadow: 0 10px 25px rgba(0, 0, 0, 0.15);  
 width: 100%;  
 max-width: 400px;  
 }  
  
 h2 {  
 margin-bottom: 20px;  
 font-weight: 600;  
 }  
  
 a {  
 display: inline-block;  
 margin-top: 15px;  
 padding: 12px 24px;  
 background-color: #3498db;  
 color: #fff;  
 text-decoration: none;  
 border-radius: 8px;  
 font-weight: 500;  
 transition: background 0.3s ease;  
 }  
  
 a:hover {  
 background-color: #2980b9;  
 }  
 </style>  
</head>  
<body>  
  
<div class="success-container">  
 <h2>Registration Successful!</h2>  
 <a href="register.jsp">Back to Registration</a>  
</div>  
  
</body>  
</html>

**src/main/webapp/error.jsp**

<%@ page contentType="text/html;charset=UTF-8" %>  
<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta charset="UTF-8">  
 <title>Registration Error</title>  
  
 <!-- Google Font: Poppins -->  
 <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@400;600&display=swap" rel="stylesheet">  
  
 <style>  
 body {  
 margin: 0;  
 padding: 0;  
 font-family: 'Poppins', sans-serif;  
 background: linear-gradient(to right, #6dd5fa, #2980b9);  
 display: flex;  
 justify-content: center;  
 align-items: center;  
 height: 100vh;  
 color: #2c3e50;  
 }  
  
 .error-container {  
 background-color: #ffffff;  
 padding: 40px;  
 border-radius: 15px;  
 text-align: center;  
 box-shadow: 0 10px 25px rgba(0, 0, 0, 0.15);  
 max-width: 400px;  
 width: 100%;  
 }  
  
 h2 {  
 color: #e74c3c;  
 margin-bottom: 20px;  
 }  
  
 a {  
 display: inline-block;  
 margin-top: 15px;  
 text-decoration: none;  
 color: #ffffff;  
 background-color: #3498db;  
 padding: 12px 20px;  
 border-radius: 8px;  
 font-weight: 500;  
 transition: background-color 0.3s ease;  
 }  
  
 a:hover {  
 background-color: #2980b9;  
 }  
 </style>  
</head>  
<body>  
  
<div class="error-container">  
 <h2>Registration Failed</h2>  
 <p><%= request.getAttribute("errorMessage") != null ? request.getAttribute("errorMessage") : "Please try again!" %></p>  
 <a href="register.jsp">Back to Register</a>  
</div>  
  
</body>  
</html>

**src/main/java/** **RegisterServlet.java**

import java.io.\*;  
import javax.servlet.\*;  
import javax.servlet.http.\*;  
import java.sql.\*;  
  
public class RegisterServlet extends HttpServlet {  
  
 protected void doPost(HttpServletRequest request, HttpServletResponse response)  
 throws ServletException, IOException {  
  
 String fullName = request.getParameter("fullName");  
 String email = request.getParameter("email");  
 String username = request.getParameter("username");  
 String password = request.getParameter("password");  
 String phone = request.getParameter("phone");  
 String gender = request.getParameter("gender");  
 String dob = request.getParameter("dob");  
  
 Connection conn = null;  
 PreparedStatement stmt = null;  
  
 try {  
 conn = getConnection();  
 String sql = "INSERT INTO users (full\_name, email, username, password, phone, gender, dob) VALUES (?, ?, ?, ?, ?, ?, ?)";  
 stmt = conn.prepareStatement(sql);  
 stmt.setString(1, fullName);  
 stmt.setString(2, email);  
 stmt.setString(3, username);  
 stmt.setString(4, password);  
 stmt.setString(5, phone);  
 stmt.setString(6, gender);  
 stmt.setString(7, dob);  
  
 int rows = stmt.executeUpdate();  
  
 if (rows > 0) {  
 response.sendRedirect("success.jsp");  
 } else {  
 response.sendRedirect("error.jsp");  
 }  
  
 } catch (Exception e) {  
 e.printStackTrace();  
 response.sendRedirect("error.jsp");  
 }  
 }  
  
 private Connection getConnection() throws Exception {  
 String url = "jdbc:mysql://localhost:3306/user\_db";  
 String user = "root";  
 String pass = "";  
 Class.*forName*("com.mysql.jdbc.Driver");  
 return DriverManager.*getConnection*(url, user, pass);  
 }  
}

**src/main/webapp/WEB-INF/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>  
  
 <servlet>  
 <servlet-name>RegisterServlet</servlet-name>  
 <servlet-class>RegisterServlet</servlet-class>  
 </servlet>  
 <servlet-mapping>  
 <servlet-name>RegisterServlet</servlet-name>  
 <url-pattern>/RegisterServlet</url-pattern>  
 </servlet-mapping>  
  
</web-app>

**Output:-**





