## **Experiment - 6.1**

## Aim:

Create User Registration using JSP, Servlet and JDBC.

## Code:

```
1- Create database table for member
 <code>CREATE TABLE `member` (
       `uname` varchar(45) NOT NULL,
       `password` varchar(45) DEFAULT NULL,
       `email` varchar(45) DEFAULT NULL,
       `phone` varchar(45) DEFAULT NULL,
       PRIMARY KEY (`uname`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;</code>
2- Create a memberRegister.jsp for the user registration
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
      <meta charset="ISO-8859-1">
      <title>Insert title here</title>
</head>
<body>
      <form action="Register" method="post">
             User Name
            <input type="text" name="uname"> 
             Password
            <input type="password" name="password">  
            Email
            <input type="text" name="email">

            Phone
            <input type="text" name="phone">
             Submit
            <input type="submit" value="register">
            </form>
</body>
</html>
3- Create a dto class Member.java
public class Member {
      ate String uname, password, email, phone;
      public Member() {
      super();
public Member(String uname, String password, String email, String phone) {
```

```
super();
       this.uname = uname;
       this.password = password;
       this.email = email;
       this.phone = phone;
public String getUname() {
       return uname;
public void setUname(String uname) {
       this.uname = uname;
public String getPassword() {
       return password;
}
public void setPassword(String password) {
       this.password = password;
public String getEmail() {
       return email;
public void setEmail(String email) {
       this.email = email;
public String getPhone() {
       return phone;
}
public void setPhone(String phone) {
       this.phone = phone;
} }
4- Create a Servlet named Register.java
import java.io.IOException;
import javax.servlet.*;
@WebServlet("/Register")
public class Register extends HttpServlet {
private static final long serialVersionUID = 1L;
      public Register() {
     super();
protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
       response.getWriter().append("Served at: ").append(request.getContextPath());
protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
       String uname=request.getParameter("uname");
       String password=request.getParameter("password");
       String email=request.getParameter("email");
       String phone=request.getParameter("phone");
       Member member=new Member(uname, password, email, phone);
       RegisterDao rdao=new RegisterDao();
       String result=rdao.insert(member);
       response.getWriter().println(result);
```

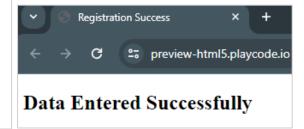
```
5- Create a Dao class Register Dao. java
import java.sql.*;
public class RegisterDao {
private String dburl = "jdbc:mysql://localhost:3306/userdb";
private String dbuname = "root";
private String dbpassword = "mysql";
private String dbdriver = "com.mysql.jdbc.Driver";
public void loadDriver(String dbDriver){
       try {
       Class.forName(dbDriver);
       } catch (ClassNotFoundException e) {
       e.printStackTrace();
       } }
public Connection getConnection() {
       Connection con = null;
       try {
       con = DriverManager.getConnection(dburl, dbuname, dbpassword);
       } catch (SQLException e) {
       e.printStackTrace(); }
       return con; }
       public String insert(Member member) {
       loadDriver(dbdriver);
       Connection con = getConnection();
       String sql = "insert into member values(?,?,?)";
       String result="Data Entered Successfully";
       try {
       PreparedStatement ps = con.prepareStatement(sql);
       ps.setString(1, member.getUname());
       ps.setString(2, member.getPassword());
       ps.setString(3, member.getEmail());
       ps.setNString(4, member.getPhone());
       ps.executeUpdate();
       } catch (SQLException e) {
       result="Data Not Entered Successfully";
       e.printStackTrace();
return result;
} }
```

## **Output:**

} }

# Member Registration Form

User Name:	JohnDoe
Password:	•••••
Email:	johndoe@example.com
Phone:	1234567890
Register	



## Experiment - 6.2

## Aim:

Create Employee Registration Form using a combination of JSP, Servlet, JDBC and MySQL Database.

#### Code:

**MySQL Database Setup:** 

this.address = address; }

```
CREATE TABLE 'employee' (
 'id' int(3) NOT NULL,
 `first_name` varchar(20) DEFAULT NULL,
 `last name` varchar(20) DEFAULT NULL,
 `username` varchar(250) DEFAULT NULL,
 `password` varchar(20) DEFAULT NULL,
  `address` varchar(45) DEFAULT NULL,
 `contact` varchar(45) DEFAULT NULL,
 PRIMARY KEY ('id')
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
Create a JavaBean - Employee.java:
import java.io.Serializable;
public class Employee implements Serializable {
  private static final long serialVersionUID = 1 L;
  private String firstName;
  private String lastName;
  private String username;
  private String password;
  private String address;
  private String contact;
  public String getFirstName() {
    return firstName:
  public void setFirstName(String firstName) {
    this.firstName = firstName; }
  public String getLastName() {
    return lastName; }
  public void setLastName(String lastName) {
    this.lastName = lastName; }
  public String getUsername() {
    return username; }
  public void setUsername(String username) {
    this.username = username; }
  public String getPassword() {
    return password; }
  public void setPassword(String password) {
    this.password = password; }
  public String getAddress() {
    return address; }
  public void setAddress(String address) {
```

```
public String getContact() {
    return contact; }
  public void setContact(String contact) {
    this.contact = contact;
} }
Create an EmployeeDao.java:
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;
import net.javaguides.registration.model.Employee;
public class EmployeeDao {
  public int registerEmployee(Employee employee) throws ClassNotFoundException {
    String INSERT_USERS_SQL = "INSERT INTO employee" +
       " (id, first_name, last_name, username, password, address, contact) VALUES " +
       " (?, ?, ?, ?, ?,?,?);";
    int result = 0;
    Class.forName("com.mysql.jdbc.Driver");
    try (Connection connection = DriverManager
       .getConnection("jdbc:mysql://localhost:3306/demo?useSSL=false", "root", "root");
       PreparedStatement preparedStatement =
connection.prepareStatement(INSERT USERS SQL)) {
       preparedStatement.setInt(1, 1);
       preparedStatement.setString(2, employee.getFirstName());
       preparedStatement.setString(3, employee.getLastName());
       preparedStatement.setString(4, employee.getUsername());
       preparedStatement.setString(5, employee.getPassword());
       preparedStatement.setString(6, employee.getAddress());
       preparedStatement.setString(7, employee.getContact());
       System.out.println(preparedStatement);
       result = preparedStatement.executeUpdate();
     } catch (SQLException e) {
       printSQLException(e);
    return result; }
  private void printSQLException(SQLException ex) {
    for (Throwable e: ex) {
       if (e instanceof SQLException) {
         e.printStackTrace(System.err);
         System.err.println("SQLState: " + ((SQLException) e).getSQLState());
         System.err.println("Error Code: " + ((SQLException) e).getErrorCode());
         System.err.println("Message: " + e.getMessage());
         Throwable t = ex.getCause();
         while (t != null) {
            System.out.println("Cause: " + t);
           t = t.getCause();
         } } } }
```

### Create an EmployeeServlet.java:

package net.javaguides.employeemanagement.web; import java.io.IOException;

```
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import net.javaguides.employeemanagement.dao.EmployeeDao;
import net.javaguides.employeemanagement.model.Employee;
@WebServlet("/register")
public class EmployeeServlet extends HttpServlet {
  private static final long serialVersionUID = 1 L;
  private EmployeeDao employeeDao;
  public void init() {
    employeeDao = new EmployeeDao(); }
  protected void doPost(HttpServletRequest request, HttpServletResponse response)
  throws ServletException, IOException {
    String firstName = request.getParameter("firstName");
    String lastName = request.getParameter("lastName");
    String username = request.getParameter("username");
    String password = request.getParameter("password");
    String address = request.getParameter("address");
    String contact = request.getParameter("contact");
    Employee employee = new Employee();
    employee.setFirstName(firstName);
    employee.setLastName(lastName);
    employee.setUsername(username):
    employee.setPassword(password);
    employee.setContact(contact);
    employee.setAddress(address);
    try {
      employeeDao.registerEmployee(employee);
    } catch (Exception e) {
      e.printStackTrace(); }
    response.sendRedirect("employeedetails.html"); } }
Create an employeeregister.html
<!DOCTYPE html>
<html>
<head>
  <meta charset="ISO-8859-1">
  <title>Insert title here</title>
</head>
<body>
  <div align="center">
    <h1>Employee Register Form</h1>
    <form action="register" method="post">
       First Name
           <input type="text" name="firstName" /> 
         Last Name
           <input type="text" name="lastName" />
         UserName
         <input type="text" name="username" />
```

```
Password
       <input type="password" name="password" />
       Address
         <input type="text" name="address" />
        Contact No
         <input type="text" name="contact" />
     <input type="submit" value="Submit" />
 </div>
</body>
</html>
Create an employeedetail.html
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<h1>Employee successfully registered !</h1>
</body>
</html>
```

## **Output:**



