

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
        <title>Login System</title>
        <style>
            #regform{
                text-align:justify;
                padding:15px 15px;
                background-color:#003366;
                height:400px;
                border-radius:15px;
            }
            td{
                width:100px;
                color:white;
            }
            p{
                text-align:center;
                font-size:16pt;
                color:#000066;
            }
```

```

        h1{
            margin:25px;
            text-align:center;
            background-color:#003366;
            color:#fff;
        }
    </style>
</head>

<body>

<h1>User Login System in Servlet and Jsp by MVC pattern using MySQL</h1>

<form action="controller" method="post">

    <p>SignUp Here</p>

    <table id="regform" cellspacing="20" align="center">

        <tr><td>USER ID :</td><td><input type="text" id="id" name="userid"
placeholder="Enter only digits" required="required"></td></tr>

        <tr><td>USERNAME:</td><td><input type="text" name="username"
placeholder="Enter Alphabetics only" required></td></tr>

        <tr><td>PASSWORD:</td><td> <input type="password" name="password"
placeholder="Enter your password" required></td></tr>

        <tr><td>EMAIL:</td><td> <input type="email" name="email" placeholder="Enter
your email" required></td></tr>

        <tr><td colspan=5 align="center"><button
type="submit">REGISTER</button></td></tr></table>

    <p>Already Registered ?? Then,<a href="login.jsp">Login Here</a></p>

</form>

</body>

</html>

```

DB connection

```
package com.dbconnection;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;

public class Dbconnection {

    public static Connection getConnection() throws SQLException{ //making a static
connection,shares to all classes

        Connection con=null; // creating connection

        try {

            Class.forName("com.mysql.jdbc.Driver");

con=DriverManager.getConnection("jdbc:mysql://localhost:3306/regform","root","root");

        } catch (Exception e) {

            con.close();

            System.out.println(e);

        }

        return con;

    }

}
```

Index.jsp

```
package com.controller;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import com.operations.SaveUser;

import com.Pojo.UserPojo;

public class ControllerServlet extends HttpServlet {

    private static final long serialVersionUID = 1L;

    @Override

    protected void doPost(HttpServletRequest req, HttpServletResponse resp) throws

ServletException, IOException {

        resp.setContentType("text/html");

        PrintWriter out=resp.getWriter();

        try {

            String userid =req.getParameter("userid");

            int id= Integer.parseInt(userid);

            String username=req.getParameter("username");//getting all the values

from user

            String pass=req.getParameter("password");

            String email=req.getParameter("email");

            //getting all the values from index.jsp
```

```

        UserPojo pObject = new UserPojo();
        pObject.setld(id);
        pObject.setUsername(username);
        pObject.setPass(pass);
        pObject.setEmail(email);
        int status = SaveUser.save(pObject);
        if(status>0){
            out.print("<h2 align='center'>Successfully Registered</h2>");
            out.print("<a align='center'href='login.jsp'>Login Here</a>");
        }else{
            req.getRequestDispatcher("index.jsp").include(req, resp);
            out.print("<p>User Already Exists with Same User Details</p>");
        }
    }catch(Exception e){
        req.getRequestDispatcher("index.jsp").include(req, resp);
        out.print("<p>Enter Valid Details to Register</p>");
        // executes if at all user enters invalid details
    }
}
}

```

Bean class

```
package com.pojo;

public class UserPojo {

    private int id;

    private String username,pass,email;

    private double loan;

    private int interest;

    public int getId() {

        return id;

    }

    public void setId(int id) {

        this.id = id;

    }

    public String getUsername() {

        return username;

    }

    public void setUsername(String username) {

        this.username = username;

    }

    public String getPass() {
```

```
        return pass;
    }

    public void setPass(String pass) {
        this.pass = pass;
    }

    public String getEmail() {
        return email;
    }

    public void setEmail(String email) {
        this.email = email;
    }

    public int getLoan() {
        return loan;
    }

    public void setLoan(double loan) {
        this.loan = loan;
    }

    public int getInterest() {
        return interest;
    }
}
```

```
        public void setInterest(int interest) {  
            this.interest = interest;  
        }  
  
    }  
}
```

SQL database

```
package com.operations;  
  
import java.sql.Connection;  
import java.sql.PreparedStatement;  
import com.dbconnection.Dbconnection;
```



```

import com.pojo.UserPojo;

public class SaveUser {

    public static int save(UserPojo pObj){

        int flag=0;

        try {

            Connection con=Dbconnection.getConnection();

            PreparedStatement ps =
con.prepareStatement("insert into reginfo values(?,?,?,?);");

            ps.setInt(1, pObj.getId());

            ps.setString(2, pObj.getUsername());//sending
up the values received from user to the database table

            ps.setString(3, pObj.getPass());

            ps.setString(4, pObj.getEmail());

            ps.setdouble(5,pObj.getLoan());

            ps.setInt(6,pObj.getInterest());

            flag=ps.executeUpdate();

            con.close();

        } catch (Exception e) {

            System.out.println(e);

        }
    }
}

```

```
        return flag;
    }
}
```

Login.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-
```

8859-1"

pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>

<head>

<meta http-equiv="Content-Type" content="text/html;
charset=ISO-8859-1">

<title>login Page</title>

<style>

h1{

color:green;

text-decoration: underline;

text-align: center;

}

form{

border:2px solid green;

margin: 5em;

}

p{

text-align:center;

```
        font-size: 16pt;
    }
</style>
</head>
<body>
    <h1>Login Page</h1>
    <form action="LoginServlet" method="post">
        <table id="loginform" cellpadding="20"
align="center">
            <tr><td>USER ID :</td><td><input type="text"
id="id" name="userid" placeholder="Enter only digits"
required="required"></td></tr>
            <tr><td>PASSWORD:</td><td> <input
type="password" name="password" placeholder="Enter your
password" required></td></tr>
            <tr><td colspan=5 align="center"><button
type="submit">Login</button></td></tr></table>
        </form>
    </body>
</html>
```

Login servlet.jsp

```
package com.operations;

import java.io.IOException;
import java.io.PrintWriter;
import java.util.ArrayList;
import java.util.List;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import com.pojo.UserPojo;

public class LoginServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;

    @Override
    protected void doPost(HttpServletRequest req,
        HttpServletResponse resp) throws ServletException, IOException
    {
        PrintWriter out = resp.getWriter();

        try{

            String uid=req.getParameter("userid");
```

```

int id=Integer.parseInt(uid);

String password =req.getParameter("password");

UserPojo pObject = new UserPojo();

pObject.setId(id);

pObject.setPass(password);

List<UserPojo>list = new ArrayList<>();

list =UserLoginValidate.getUsers(id, password);

if(!(list.isEmpty())){

    out.print("<h1 align='center'>Congrats!You've
Successfully Logged In</h1>");

        out.print("<table align ='center' border='1'
cellspacing='5'
cellpadding='5'><tr><th>ID</th><th>NAME</th><th>Password</th>
<th>Email</th></tr>");

        for(UserPojo i:list){

            //printing all the values in the list

            out.print("<tr><td>" +i.getId()+ "</td>");

            out.print("<td>" +i.getUsername()+ "</td>");

            out.print("<td>" +i.getPass()+ "</td>");

            out.print("<td>" +i.getEmail()+ "</td></tr>");

            out print("<td>" +.getLoan()+ "</td></tr>");

```

```

        out.print("<td>" + .getInterest() + "</td></tr>");

    }

    out.print("</table>");

    }else{

        req.getRequestDispatcher("login.jsp").include(req,
resp);

        out.print("<p align='center'>User Does Not Exist!
Please Register");

        out.print("<a href='index.jsp'>Register
Here</a></p>");

    }

    }catch(Exception e){

        req.getRequestDispatcher("login.jsp").include(req, resp);
        out.print("<p>Please Enter Valid Details To Login</p>");

    }

}
}
}

```

User validate.jsp

```
package com.operations;

import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.util.ArrayList;
import java.util.List;
import com.dbconnection.Dbconnection;
import com.pojo.UserPojo;

public class UserLoginValidate {

    public static List<UserPojo> getUsers(int id,String
password){

        List<UserPojo>list = new ArrayList<>();

        try{

            Connection con=Dbconnection.getConnection();

            PreparedStatement
ps=con.prepareStatement("select * from reginfo where id=? and
password=?");

            ps.setInt(1,id);

            ps.setString(2,password);

            ResultSet rs=ps.executeQuery();

            if(rs.next()){
```



```

        UserPojo pObject=new UserPojo();
        pObject.setId(rs.getInt(1));
        pObject.setUsername(rs.getString(2));

        pObject.setPass(rs.getString(3));
        pObject.setEmail(rs.getString(4));
        list.add(pObject);
    }

    con.close();
}catch(Exception ex){ex.printStackTrace();}
return list;
}
}

```

Web.xml

```

<?xml version="1.0" encoding="UTF-8"?>

<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns="http://java.sun.com/xml/ns/javaee"
xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
http://java.sun.com/xml/ns/javaee/web-app_3_0.xsd"
id="WebApp_ID" version="3.0">

    <display-name>LoginSystem</display-name>

```

```
<welcome-file-list>
  <welcome-file>index.jsp</welcome-file>
</welcome-file-list>

<servlet>
  <servlet-name>Form</servlet-name>
  <servlet-class>com.controller.ControllerServlet</servlet-class>
</servlet>

<servlet-mapping>
  <servlet-name>Form</servlet-name>
  <url-pattern>/controller</url-pattern>
</servlet-mapping>

<servlet>
  <servlet-name>LoginServlet</servlet-name>
  <servlet-class>com.operations.LoginServlet</servlet-class>
</servlet>

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

