

Assignment no:-9

Title:- Design and implement a business interface with necessary business logic for any web application using EJB. e.g., Design and implement the web application logic for deposit and withdraw amount transactions using EJB.

Ejb9.jsp

```
<%--
```

```
    Document   : ejb9
```

```
    Created on : Apr 8, 2025, 6:33:58 AM
```

```
    Author    : admin
```

```
--%>
```

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

```
<!DOCTYPE html>
```

```
<html>
```

```
    <head>
```

```
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
```

```
        <title>JSP Page</title>
```

```
    </head>
```

```
    <body>
```

```
        <center>
```

```
            <h1> Calculation </h1>
```

```
            <form name="aa" method="post" action="pqr">
```

```
                <label>Enter first number:</label>
```

```
                <input type="text" name="n1">
```

```
                <br>
```

```
                <br>
```

```
                <label>Enter second number:</label>
```

```
                <input type="text" name="n2"><br>
```

```
                <br>
```

```
                <input type="submit" name="b1" value="addition">
```

```
                <input type="submit" name="b2" value="Substraction">
```

```
                <input type="submit" name="b3" value="Multiplication">
```

```
        <input type="submit" name="b4" value="Division">
        <input type="submit" name="b5" value="Mod">
    </form>
</center>
</body>
</html>
```

Pqr.java:

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package wtpractical;
import java.io.IOException;
import java.io.PrintWriter;
import javax.ejb.EJB;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
/**
 *
 * @author admin
 */
public class pqr extends HttpServlet {
    @EJB
    private calcLocal calc;

    /**
     * Processes requests for both HTTP <code>GET</code> and <code>POST</code>
     * methods.
     *

```

```

* @param request servlet request
* @param response servlet response
* @throws ServletException if a servlet-specific error occurs
* @throws IOException if an I/O error occurs
*/
protected void processRequest(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    response.setContentType("text/html;charset=UTF-8");
    try (PrintWriter out = response.getWriter()) {
        /* TODO output your page here. You may use following sample code. */
        int a=Integer.parseInt(request.getParameter("n1"));
        int b=Integer.parseInt(request.getParameter("n2"));
        out.println("Addition="+calc.addition(a, b));
        out.println("Substraction="+calc.Substraction(a, b));
        out.println("Multiplication="+calc.multiplication(a, b));
        out.println("Division="+calc.division(a, b));
        out.println("mod="+calc.modulus(a, b));
    }
}

// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the left to
edit the code.">

/**
 * Handles the HTTP <code>GET</code> method.
 *
 * @param request servlet request
 * @param response servlet response
 * @throws ServletException if a servlet-specific error occurs
 * @throws IOException if an I/O error occurs
 */
@Override
protected void doGet(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    processRequest(request, response);
}

```

```

    }
    /**
     * Handles the HTTP <code>POST</code> method.
     *
     * @param request servlet request
     * @param response servlet response
     * @throws ServletException if a servlet-specific error occurs
     * @throws IOException if an I/O error occurs
     */
    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        processRequest(request, response);
    }
    /**
     * Returns a short description of the servlet.
     *
     * @return a String containing servlet description
     */
    @Override
    public String getServletInfo() {
        return "Short description";
    } // </editor-fold>
}

```

Calc.java

```

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package wtpractical;

```

```
import javax.ejb.Stateless;

/**
 * @author admin
 */
@Stateless
public class calc implements calcLocal
{
    @Override
    public Integer addition(int a, int b) {
        return (a+b);
    }

    @Override
    public Integer Substraction(int a, int b) {
        return (a-b);
    }

    @Override
    public Integer multiplication(int a, int b) {
        return (a*b);
    }

    @Override
    public Integer division(int a, int b) {
        return (a/b);
    }

    @Override
    public Integer modulus(int a, int b) {
        return (a%b);
    }

}
```

Output:-

Calculation

Enter first number:

Enter second number:

addition

Substraction

Multiplication

Division

Mod

Addition=50 Substraction=-10 Multiplication=600 Division=0 mod=20