Lab Sheet 4

Create a servlet that receives user input from an HTML form and displays it back to the user.

Steps:

- 1. Create an HTML form to collect the user's name.
- 2. Create a Servlet (GetUserInputServlet) to handle the form submission and display the user's name.

HTML Form (index.html):

```
<html>
<head>
<title>TODO supply a title</title>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>
<body bgcolor ="#ffbf00">
<div><h1><center>User input</center></h1></div>
<form action="getUserInput12" method="POST">
<h3> Name </h3><input type="text" name="un"</tr>
<input type ="submit" value="save"</td>
</form>
<hr>
<h1>Calculate</h1>
<form action="CalculateSumServlet"method="post">
        First Number:<input type="number" name="num1" required><br>
        Second Number: <input type="number" name="num2" required><br>
```

```
<input type="submit" value="Calculate Sum">
</form>
</form>
</body>
</html>
(getUserInput12.java)
importjava.io.IOException;
importjava.io.PrintWriter;
importjavax.servlet.ServletException;
importjavax.servlet.annotation.WebServlet;
importjavax.servlet.http.HttpServlet;
importjavax.servlet.http.HttpServletRequest;
importjavax.servlet.http.HttpServletResponse;
* @author student
*/
@WebServlet(urlPatterns = {"/getUserInput12"})
public class getUserInput12 extends HttpServlet {
  /**
  * 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)
throwsServletException, IOException {
    String name = request.getParameter("un");
response.setContentType("text/html;charset=UTF-8");
try (PrintWriter out = response.getWriter()) {
      /* TODO output your page here. You may use following sample code. */
out.println("<!DOCTYPE html>");
out.println("<html>");
out.println("<head>");
out.println("<title>Servlet getUserInput12</title>");
out.println("</head>");
out.println("<body>");
out.println("<h1> Input name " + name + "</h1>");
out.println("</body>");
out.println("</html>");
    }
  }
  // <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)
throwsServletException, 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)
throwsServletException, 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>

| State | Sta
```

Input name nimeshika

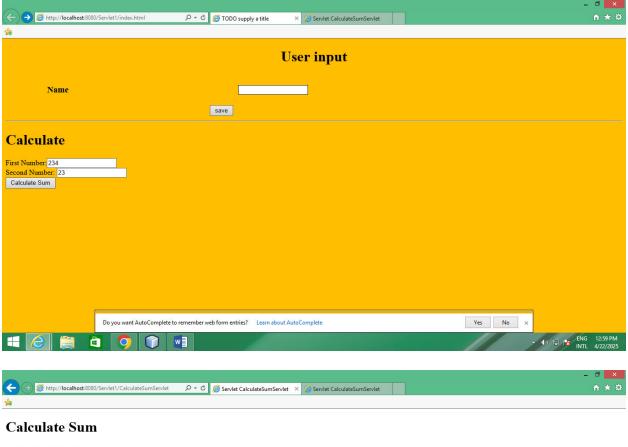


```
importjava.io.IOException;
importjava.io.PrintWriter;
importjavax.servlet.ServletException;
importjavax.servlet.annotation.WebServlet;
importjavax.servlet.http.HttpServlet;
importjavax.servlet.http.HttpServletRequest;
importjavax.servlet.http.HttpServletResponse;
* @author student
*/
@WebServlet(urlPatterns = {"/CalculateSumServlet"})
public class CalculateSumServlet extends HttpServlet {
  /**
  * 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)
throwsServletException, IOException {
int num1 = Integer.parseInt(request.getParameter("num1"));
```

```
int num2 = Integer.parseInt(request.getParameter("num2"));
int sum = num1 + num2;
response.setContentType("text/html;charset=UTF-8");
try (PrintWriter out = response.getWriter()) {
      /* TODO output your page here. You may use following sample code. */
out.println("<!DOCTYPE html>");
out.println("<html>");
out.println("<head>");
out.println("<title>Servlet CalculateSumServlet</title>");
out.println("</head>");
out.println("<body>");
out.println("<h1> Calculate Sum</h1>");
out.println("<h3> First user input:"+num1+"</h1>");
out.println("<h3> Second user input:"+num2+"</h1>");
out.println("<h1> Answer:"+sum+"</h1>");
      //out.println("<h1>The sum of " + num1 + " and " + num2 + " is: " + sum + "</h1>");
      //out.println("<h1>Servlet CalculateSumServlet at " + request.getContextPath() + "</h1>");
out.println("</body>");
out.println("</html>");
    }
  }
  // <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)
throwsServletException, 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)
throwsServletException, 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>
}
```



First user input:234

Second user input:23

Answer:257

