

## URL Rewriting

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=>It allow to send Data from 1 Page to another page by re- writing data on URL.

=> There are 4 mthods that allow to re - write data on URL

1. Query String
2. Input type=hidden/ hidden Field
3. Session Handling
4. Cookie

### 1. Query String

---

=> when we are redirecting control on a Page then we can send data from 1 Page to another Page.

#### Example1

---

```
response.sendRedirect("PageName?variable1=Value1&Variable2=Value2");
```

#### Example2

---

```
<a href=EditProfile?user=abc@gmail.com>Edit Profile</a>
```

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New table in 'servletjdbcjsp'

	Field Name	Datatype	Len	Default	PK?
*	user	varchar	30		<input checked="" type="checkbox"/>
	pswd	varchar	20		<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>

Create a new table

Enter new table name

login

OK Cancel

	user	pswd
<input type="checkbox"/>	abc@gmail	12345
*	(NULL)	(NULL)

Create a new Servlet Named as LoginServlet



## Steps

1. Choose File Type
- 2. Name and Location**
3. Configure Servlet Deployment

## Name and Location

Class Name: LoginPage

Project: ServletJDBCJSP

Location: Source Packages

Package: login

Created File: \Asus\Documents\NetBeansProjects\ServletJDBCJSP\src\java\login\LoginP

```
package login;

import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
```

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```
import javax.servlet.http.HttpServletResponse;

public class LoginPage extends HttpServlet {

    protected void service(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter()) {
            out.println("<!DOCTYPE html>");
            out.println("<html>");
            out.println("<head>");
            out.println("<title>Servlet LoginPage</title>");
            out.println("</head>");
            out.println("<body><center>");
            out.println("<h1>Login Page</h1>");
            out.println("<form action=LoginValidate>");
            out.println("<table width=600 cellpadding=20 border=0 bgcolor=pink>");
            out.println("<tr><td>User Name</td><td><input type=text name=user></td></tr>");
            out.println("<tr><td>Password</td><td><input type=password name=pswd></td></tr>");
            if(request.getParameter("msg")!=null)
            {
                out.println("<tr><td colspan=2><span style='color:red;font-size:20px;'>"
                    + ""+request.getParameter("msg")+ "</span></td></tr>");
            }

            out.println("<tr><td><input type=submit value=Submit></td><td>"
                + "<input type=Reset value=Reset></td></tr>");
            out.println("</table></form></center></body>");
            out.println("</html>");
        }
    }
}
```

```
}  
  
}  


---

  
/*  
 * 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 login;  
  
import DB.DBConnect;  
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;  
public class LoginValidate extends HttpServlet {  
  
    protected void service(HttpServletRequest request, HttpServletResponse response)  
        throws ServletException, IOException {  
        response.setContentType("text/html;charset=UTF-8");  
        try (PrintWriter out = response.getWriter())  
        {  
            String user=request.getParameter("user");  
            String password=request.getParameter("pswd");  
            DBConnect db=new DBConnect();  
            db.pstmt=db.con.prepareStatement("select * from login where user=? and pswd=?");  
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```

```
db.pstmt.setString(1, user);
db.pstmt.setString(2, password);
db.rst=db.pstmt.executeQuery();
if(db.rst.next())
{
    response.sendRedirect("HomePage?user="+user);
}
else
{
    response.sendRedirect("LoginPage?msg=Incorrect User or Password");
}

}
catch(Exception e)
{
    e.printStackTrace();
}
}
```

---

```
package login;

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;

public class HomePage extends HttpServlet {

    protected void service(HttpServletRequest request, HttpServletResponse response)

        throws ServletException, IOException {

        response.setContentType("text/html;charset=UTF-8");

        try (PrintWriter out = response.getWriter()) {

            out.println("<!DOCTYPE html>");

            out.println("<html>");

            out.println("<head>");

            out.println("<title>Servlet HomePage</title>");

            out.println("</head>");

            out.println("<body bgcolor=lightblue>");

            out.println("<h1>Welcome on Home Page</h1>");

            out.println("<h2>User Name:"+request.getParameter("user")+"</h2>");

            out.println("</body>");

            out.println("</html>");

        }

    }

}
```

---

URL Rewriting by hidden field

---

=> Using hidden field we can also send data from 1 Page to another Page, Here hidden field is always written inside <form> Tag.

---

package crud;

```
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;
public class EmpReg extends HttpServlet {
    protected void service(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter())
        {
            out.println("<!DOCTYPE html>");
            out.println("<html>");
            out.println("<head>");
            out.println("<title>Employee Registration</title>");
            out.println("</head>");
            out.println("<body><center>");
            out.println("<h1>Employee Registration</h1>"
                + "<form action=EmpShowData>"
                + "<table width=600 border=1 cellpadding=15 cellspacing=0 bgcolor=lightblue>"
                + "<tr><td width=300>Employee Code</td><td><input type=number name=code></td></tr>"
                + "<tr><td width=300>Employee Name</td><td><input type=text name=name></td></tr>"
                + "<tr><td width=300>Employee Post</td><td><input type=text name=post></td></tr>"
                + "<tr><td width=300>Address</td><td><input type=text name=addr></td></tr>"
                + "<tr><td width=300>Contact Number</td><td><input type=number name=cont></td></tr>"
                + "<tr><td width=300><input type=submit value=Submit></td><td><input type=Reset"
                value=Reset></td></tr>"
                + "</table></form>");
```



```
        out.println("</center></body>");
        out.println("</html>");
    }
    catch(Exception e)
    {
        e.printStackTrace();
    }
}
```

---

```
/*
 * 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 crud;
```

```
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;
public class EmpShowData extends HttpServlet {

    protected void service(HttpServletRequest request, HttpServletResponse response)
```

```
    throws ServletException, IOException {
```

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```
response.setContentType("text/html;charset=UTF-8");
try (PrintWriter out = response.getWriter()) {
    out.println("<!DOCTYPE html>");
    out.println("<html>");
    out.println("<head>");
    out.println("<title>Servlet EmpShowData</title>");
    out.println("</head>");
    out.println("<body><center>");
    out.println("<h1>Employee Registration Data</h1>");
        String code=request.getParameter("code");
    String name=request.getParameter("name");
    String post=request.getParameter("post");
    String addr=request.getParameter("addr");
    String cont=request.getParameter("cont");
out.println("<form action=EmpRegConf>");
out.println("<input type=hidden name=code value="+code+">");
out.println("<input type=hidden name=name value="+name+">");
out.println("<input type=hidden name=post value="+post+">");
out.println("<input type=hidden name=addr value="+addr+">");
out.println("<input type=hidden name=cont value="+cont+">");
out.println("<table width=600 border=1 cellpadding=15 cellspacing=0 bgcolor=lightblue>"
+ "<tr><td width=300>Employee Code</td><td>"+code+"</td></tr>"
+ "<tr><td width=300>Employee Name</td><td>"+name+"</td></tr>"
+ "<tr><td width=300>Employee Post</td><td>"+post+"</td></tr>"
+ "<tr><td width=300>Address</td><td>"+addr+"</td></tr>"
+ "<tr><td width=300>Contact Number</td><td>"+cont+"</td></tr>");

out.println("<tr><td width=300><input type=submit value=Edit name=opr></td>");
    out.println("<td><input type=submit value=Register name=opr></td></tr>")
}
```

```
        + "</table></form>");

        out.println("</center></body>");
        out.println("</html>");
    }
}

}
```

---

```
package crud;

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;
public class EmpRegConf extends HttpServlet {
    protected void service(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter())
        {

            String code=request.getParameter("code");

            String name=request.getParameter("name");
```

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```
String post=request.getParameter("post");
String addr=request.getParameter("addr");
String cont=request.getParameter("cont");
String opr=request.getParameter("opr");
if(opr.equals("Edit"))
{

    out.println("<h1>Employee Registration</h1>"
        + "<form action=EmpShowData>"
        + "<table width=600 border=1 cellpadding=15 cellspacing=0 bgcolor=lightblue>"
        + "<tr><td width=300>Employee Code</td><td><input type=number name=code"
        value="+code+"></td></tr>"
        + "<tr><td width=300>Employee Name</td><td><input type=text name=name"
        value="+name+"></td></tr>"
        + "<tr><td width=300>Employee Post</td><td><input type=text name=post"
        value="+post+"></td></tr>"
        + "<tr><td width=300>Address</td><td><input type=text name=addr value="+addr+"></td></tr>"
        + "<tr><td width=300>Contact Number</td><td><input type=number name=cont"
        value="+cont+"></td></tr>"
        + "<tr><td width=300><input type=submit value=Submit></td><td><input type=Reset"
        value=Reset></td></tr>"
        + "</table></form>");
}
else
{
    DB.DBConnect db=new DB.DBConnect();
    db.pstmt=db.con.prepareStatement("insert into emp_reg values(?,?,?,?)");
    db.pstmt.setString(1, code);
    db.pstmt.setString(2, name);
    db.pstmt.setString(3, post);
```

```
db.pstmt.setString(4, addr);
db.pstmt.setString(5, cont);
int i=db.pstmt.executeUpdate();
if(i>0)
{
    out.println("<h2>Employee Registered Successfully</h2>");
    out.println("<a href=EmpReg>back</a>");
}
}
}
catch(Exception e)
{
    e.printStackTrace();
}
}
```

