

BUILDING A JSP-BASED WEB REPORT WITH A PARAMETER FORM

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Introduction

Creating a parameter form for a paper report is easy, since users have access to the graphical Paper Parameter Form view in the Report Editor. On the other hand, creating a parameter form using the JSP-based Web source is more complex, since it requires knowledge of JSP code, Oracle Reports JSP tags, and HTML. At the same time, freedom to code your own parameter form in the JSP-based Web source provides you an opportunity to create complex designs, embed JavaScript functions, use cascading style sheets, and so on, in your parameter form.

The JSP report included in this example provides you a sample implementation of a JSP-based parameter form. This example report includes the following advanced features of parameter forms:

- Designing the parameter form and the report output in a single JSP file.
- Ability to enter a search string in the parameter form to retrieve report results.
- Using JavaScript to submit the parameter form upon user selection.
- Ability to sort the results in the report output.

This technical note explains how to run the example JSP report. For details of the JSP code and JavaScript functions used, open the JSP report in the Report Builder, and refer to the code comments that are visible in the Web Source view.

Running the Example Report

PREREQUISITES

To run the example report, you must have access to the Order Entry sample schema (OE) provided with Oracle Database.

RUNNING THE EXAMPLE REPORT

Follow these steps to run the example report:

1. Open the report `paramform.jsp` in Reports Builder. You will find this report in the `results` directory of the downloaded sample zip file.
2. Open the Web Source view of the report.
3. Locate the following comment:

```
The following line assigns the reports id and
parameters. You must set them to the appropriate
values for your environment. Set both
userid=oe/oe@mydb and server=myrepserver
```

Note that since JSP comments must be enclosed in angular brackets, that is, `<!--` and `-->`, the above comment may be split into several lines, each line enclosed in angular brackets as shown above.

In the code following the above comment, provide appropriate values for the command line keywords `USERID` and `SERVER`.

4. Locate the following comment:

```
Set the following line to your web server environment
for calling the report
base href=http://hostname:port_number/context_root/
for example
base href=http://mymachine:8888/reports/examples/
```

In the code following the above comment, provide appropriate values for the hostname, port number, and the context root of the application where your JSP report will be deployed. For testing purposes, you may copy the JSP to the following directory:

```
ORACLE_HOME\reports\j2ee\reports_ids\examples
```

where `OARCLE_HOME` is the folder where Oracle Developer Suite is installed. If you do this, the context root for your JSP will be `examples`.

Refer to *Oracle Application Server Reports Services Publishing Reports to the Web* for more information on deploying JSP-based Web reports.

5. Deploy the JSP report on Oracle Containers for J2EE (OC4J). To deploy the JSP report in your production environment, you must create a new J2EE application that contains the JSP, and deploy the J2EE application. Refer to *Oracle Application Server Reports Services Publishing Reports to the Web* for more information on deploying JSP-based Web reports. However, for testing purposes, you can copy `paramform.jsp` and the `assets` subdirectory into the following location:

`ORACLE_HOME\reports\j2ee\reports_ids\examples`

where `ORACLE_HOME` is the folder where Oracle Developer Suite is installed.

6. Start up OC4J, if it is not already running. In your production environment, it is recommended that you use Oracle Enterprise Manager to manage OC4J. However, for testing purposes, on Windows installations of OracleDS, you can choose `Start > programs > Oracle Developer Suite > Reports Developer > Start OC4J Instance`. On Solaris installations of OracleDS, you can execute the following command:

`ORACLE_HOME/j2ee/DevSuite/startinst.sh`

Refer to OracleDS documentation for more information.

7. Start the Reports Server you specified in step 3 above. Make sure that this Reports Server is accessible to the OC4J instance where the JSP is deployed.

Note: If you want to use the in-process Reports Server to execute your request, you can omit the Reports Server name in Step 3 above.

8. Run the JSP. If you have copied `paramform.jsp` into the OracleDS location mentioned above, you can submit the following command in a Web browser:

`http://host:port/reports/examples/paramform.jsp`

where `host` and `port` are the hostname and port number for the OC4J instance. Refer to *Oracle Application Server Reports Services Publishing Reports to the Web* for more information on running JSP-based Web reports.

9. You should see the following result:

Order Id	Order Date	Order Status	Order Total
2458	17-AUG-99 04:04:12.234350 AM	0	78,279.60
2397	20-NOV-99 06:11:54.096211 AM	1	42,283.20
2454	03-OCT-99 06:19:34.873940 AM	1	6,853.40
2354	15-JUL-00 06:48:23.234567 AM	0	46,257.00
2359	09-JAN-00 07:33:12.654278 AM	2	7,826.00
2381	15-MAY-00 09:29:08.843679 AM	3	23,034.60
2440	01-SEP-99 10:23:06.008765 AM	3	70,576.60
2357	09-JAN-99 10:49:44.123456 AM	5	59,872.40
2394	11-FEB-00 11:52:35.554769 AM	5	21,863.00
2435	03-SEP-99 11:52:53.134567 AM	6	62,303.00
2465	21-SEP-99 12:04:11.466789 AM	7	14,087.50
2379	18-MAY-99 02:52:24.234567 PM	8	17,948.20
2396	02-FEB-99 04:04:56.345678 PM	8	34,930.00
2406	29-JUN-99 05:11:20.098765 PM	8	2,854.20
2434	13-SEP-99 06:10:30.647893 PM	8	268,651.80
2436	02-SEP-99 06:48:04.378034 PM	8	6,394.80
2446	27-JUL-99 07:33:08.302945 PM	9	103,679.30
2447	27-JUL-00 09:29:10.223344 PM	8	33,893.60
2432	14-SEP-99 10:23:40.223345 PM	10	10,523.00
2433	13-SEP-99 10:49:00.654279 PM	10	78.00
2355	26-JAN-99 11:52:51.062632 PM	8	94,513.50
2356	26-JAN-00 11:52:41.934562 PM	5	29,473.80
2359	09-JAN-98 12:04:13.112233 PM	9	5,543.10
2360	15-NOV-99 02:52:31.223344 AM	4	900.40
2361	14-NOV-99 04:04:21.986210 AM	8	120,131.30
2362	14-NOV-99 05:11:10.819477 AM	4	92,929.40
2363	24-OCT-99 06:19:56.346122 AM	0	10,082.30
2364	29-AUG-99 06:48:45.942399 AM	4	9,500.00
2365	29-AUG-99 07:33:34.003399 AM	9	27,465.30
2366	29-AUG-99 09:29:23.144779 AM	5	37,319.40
2367	28-JUN-00 10:23:32.335622 AM	10	144,054.80
2368	27-JUN-00 10:40:43.190089 AM	10	60,065.00
2369	27-JUN-00 11:52:53.134567 AM	0	11,697.20

Figure 1: Paramform.jsp output on the Web

The output page (Figure 1) shows you a default search string (WIL%) that searches customers' last name, and shows you the search results. This search is case-insensitive. The text field where you see the default search string (WIL%) is the first parameter form of this report.

The main body of the report output shows you order details of the customers. By default, it shows you the order details of the first customer in the search results. To see the order details of any other customer, select the customer name in the search results. This is the second parameter form used in this report.

You can sort the order details by clicking on the sort icon (v) next to any of the column headings. This sample sorts the order details in ascending order only.

- Change the search string to see a different sub-set of customer names, and subsequently click on any customer name to see its order details.

More Information

Refer to the *Oracle Reports online Help* available on the [Oracle Technology Network](#) (OTN) for more information on the Reports custom JSP tags.

Refer to the detailed comments inside the JSP-based Web report to understand the code used in this report. To view these comments, open the report `paramform.jsp` in Reports Builder Web Source view.

Refer to *Oracle Reports Building Reports* available on the [Oracle Technology Network](#) (OTN) for an example of building a simpler parameter form using a JSP-based Web report.



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