

Struts 2: Plugin jQuery (Grid)

Ciclo 2011-I

Curso: Desarrollo de Aplicaciones Web II

Equipo de Profesores del Curso

Objetivos

- ❑ Conocer el uso del plugin para el framework Java Script jQuery proporcionado por Google Code
- ❑ Manejar las funcionalidades de Grid que proporciona el plugin.

Tag <sjg:grid>

Grid 1 - Consulta

Grid 2 - Search

Grid 3 - Search
Multiple

Grid 4 - Editable



Customers (Editable/Multiselect)						
<input type="checkbox"/>	ID	Company	Country	City	Credit Limit	Employee
<input checked="" type="checkbox"/>	103	Atelier graphique	France	Nantes	21 000.00	1370
<input type="checkbox"/>	112	Signal Gift Stores	USA	Las Vegas	71 800.00	1166
<input type="checkbox"/>	114	Australian Collectors, Co.	Australia	Melbourne	117 300.00	1611
<input type="checkbox"/>	119	La Rochelle Gifts	France	Nantes	118 200.00	1370
<input type="checkbox"/>	121	Baane Mini Imports	Norway	Stavern	81 700.00	1504
<input type="checkbox"/>	124	Mini Gifts Distributors Ltd.	USA	San Rafael	210 500.00	1165
<input type="checkbox"/>	128	Blauer See Auto, Co.	Germany	Frankfurt	59 700.00	1504
<input type="checkbox"/>	129	Mini Wheels Co.	USA	San Francisco	64 600.00	1165
<input type="checkbox"/>	131	Land of Toys Inc.	USA	NYC	114 900.00	1323
<input type="checkbox"/>	141	Euro+ Shopping Channel	Spain	Madrid	227 600.00	1370
<input type="checkbox"/>	144	Volvo Model Replicas, Co	Sweden	Luleå	53 100.00	1504
<input type="checkbox"/>	145	Danish Wholesale Imports	Denmark	Kobenhavn	83 400.00	1401
<input type="checkbox"/>	146	Saveley & Henriot, Co.	France	Lyon	123 900.00	1337
<input type="checkbox"/>	148	Dragon Souvenirs, Ltd.	Singapore	Singapore	103 800.00	1621
<input type="checkbox"/>	151	Muscle Machine Inc	USA	NYC	138 500.00	1286

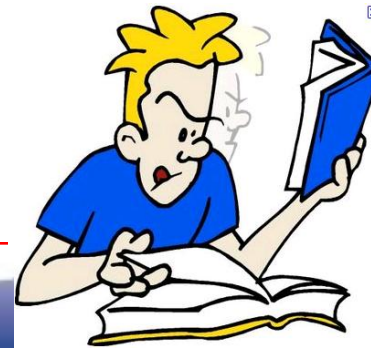
+ ✎ 🗑️ 🔍 🔄

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Este laboratorio usa:

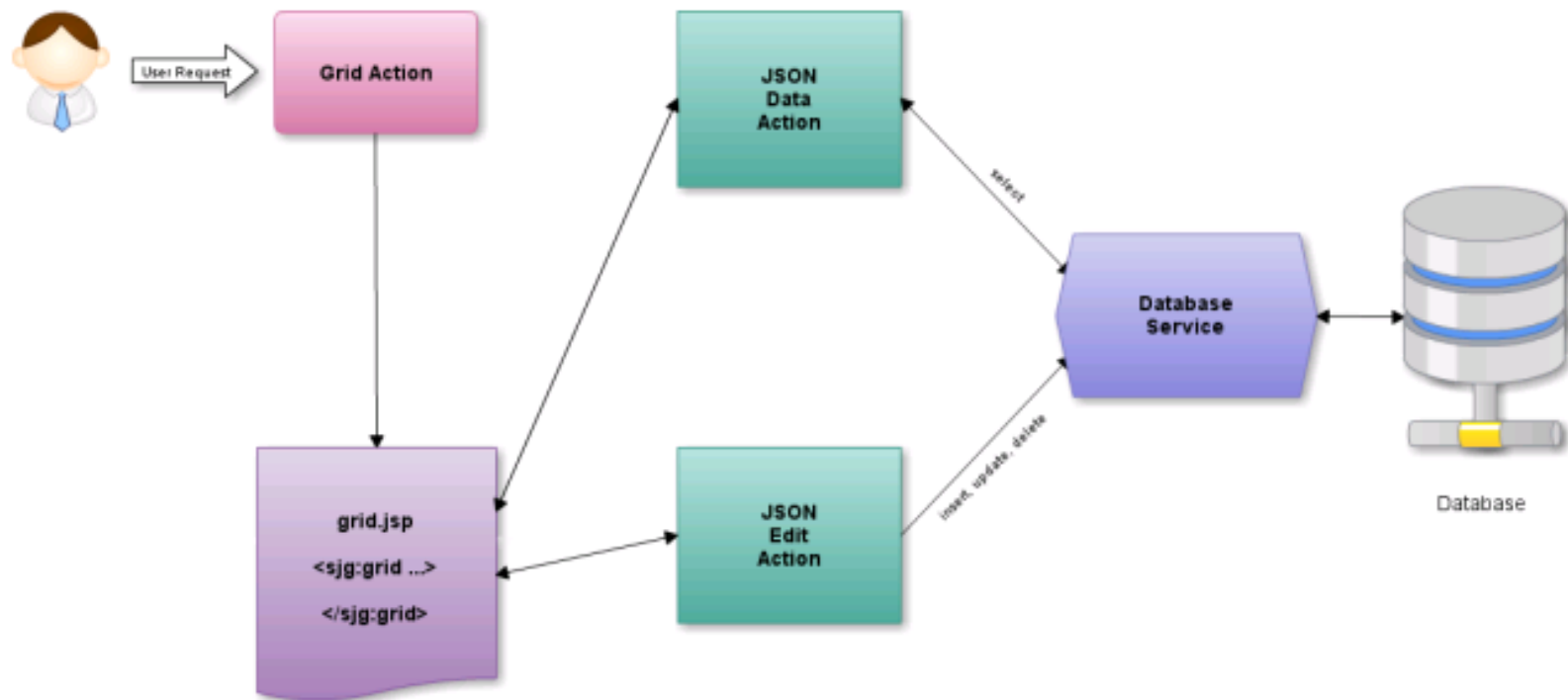
- Tiles
- JDBC
- JSON

¡Glub!
No lo recordaba...






Tag <sjg:grid>

 <http://code.google.com/p/struts2-jquery/wiki/GridTag>



Agregar el plug-in Json que viene con Struts 2
Agregar el jar de jquery-grid

 struts2-jquery-grid-plugin-2.5.3.jar
 struts2-jquery-plugin-2.4.1.jar
 struts2-json-plugin-2.2.1.jar

```
<package name="default" extends="struts-default,json-default">
```

struts.xml : Agregar JSON a la configuración de Struts 2

Plantilla de la acción JSON

```
public class JsonTable extends ActionSupport {  
    //Your result List  
    private List<Customer>      gridModel;  
  
    //get how many rows we want to have into the grid - rowNum attribute in the grid  
    private Integer              rows                = 0;  
  
    //Get the requested page. By default grid sets this to 1.  
    private Integer              page                 = 0;  
  
    // sorting order - asc or desc  
    private String               sord;  
  
    // get index row - i.e. user click to sort.  
    private String               sidx;  
  
    // Search Field  
    private String               searchField;  
  
    // The Search String  
    private String               searchString;  
  
    // he Search Operation ['eq','ne','lt','le','gt','ge','bw','bn','in','ni','ew','en','cn','nc']  
    private String               searchOper;  
  
    // Your Total Pages  
    private Integer              total                = 0;  
  
    // All Record  
    private Integer              records              = 0;
```

Plantilla de la acción JSON (2)

```
public String execute()
{

    int to = (rows * page);
    int from = to - rows;

    //Count Rows (select count(*) from customer)
    records = CustomerDAO.count()

    //Your logic to search and select the required data.
    gridModel = CustomerDAO.find(from, to);

    //calculate the total pages for the query
    total =(int) Math.ceil((double)records / (double)rows);

    return SUCCESS;
}

public String getJSON()
{
    return execute();
}

//Getters and Setters for Attributes
}
```

Pasos previos ...



```
Person.java X
1 package quickstart.model;
2
3 public class Person {
4
5     private Integer id;
6     private String lastName;
7     private String firstName;
```

**No olvidar
getter/setter**

person	
id	INT(10)
firstName	VARCHAR(45)
lastName	VARCHAR(45)
Indexes	
PRIMARY	

El DAO debe implementar esta Interface :

```
1 package quickstart.model;
2
3 import java.util.List;
4
5 public interface PersonIF {
6
7     public int count();
8     public List<Person> find(int from, int to, String sord, String sdix );
9     public List<Person> find(int from, int to, String condicion, String sord, String sdix );
10
11     public void insert( Person person);
12     public void update( Person person);
13     public void delete( int id );
14
15 }
```

Ejemplo #1: grid1.jsp

```
1 <%@ taglib prefix="s" uri="/struts-tags"%>
2 <%@ taglib prefix="sj" uri="/struts-jquery-tags"%>
3 <%@ taglib prefix="sjg" uri="/struts-jquery-grid-tags"%>
4
5 <s:url id="remoteurl" action="jq1_execute"/>
6
7 <sjg:grid
8     id="gridtable"
9     caption="Relacion de Personas Tabla 'PERSON'"
10    dataType="json"
11    href="{remoteurl}"
12    pager="true"
13    gridModel="gridModel"
14    rowList="10,15,20"
15    rowNum="10"
16    rownumbers="true">
17
18    <sjg:gridColumn name="id" index="id" title="ID" formatter="integer" sortable="false"/>
19    <sjg:gridColumn name="firstName" index="firstName" title="Nombre" sortable="true"/>
20    <sjg:gridColumn name="lastName" index="lastName" title="Apellido" sortable="true"/>
21
22 </sjg:grid>
23
24 <br/><br/><br/><br/><br/>
```


Ejemplo #1: JsonTable1.java

```
47   ...  
48   public String execute() {  
49       System.out.println("Page :" + getPage() + " Rows :" + getRows() + " Sort:  
50       System.out.println("Search :" + this.searchField + " " + this.searchOper  
51  
52       PersonDAO1 dao = new PersonDAO1();  
53  
54       int to = (rows * page);  
55       int from = to - rows;  
56  
57       //Count Total Rows in Table  
58       records = dao.count();  
59  
60       //Your logic to search and select the required data.  
61       gridModel = dao.find(from, to, getSord(), getSidx() );  
62  
63       //calculate the total pages for the query  
64       total =(int) Math.ceil((double)records / (double)rows);  
65  
66       return SUCCESS;  
67   }  
68  
69   public String getJSON()  
70   {  
71       System.out.println("Entra a getJSON...");  
72       return execute();  
73   }  
74   ...
```

Ejemplo #2: grid2.jsp

```
1 <%@ taglib prefix="s" uri="/struts-tags"%>
2 <%@ taglib prefix="sj" uri="/struts-jquery-tags"%>
3 <%@ taglib prefix="sjg" uri="/struts-jquery-grid-tags"%>
4
5 <s:url id="remoteurl" action="jq2_execute"/>
6
7 <sjg:grid id="gridtable"
8     caption="Relacion de Personas Tabla 'PERSON'"
9     dataType="json"
10    href="{remoteurl}"
11    pager="true"
12    gridModel="gridModel"
13    rowList="10,15,20"
14    rowNum="10"
15    rownumbers="true"
16    navigator="true"
17    navigatorSearch="true" >
18
19    <sjg:gridColumn name="id" index="id" title="ID"
20        formatter="integer" sortable="false"
21        search="false"/>
22    <sjg:gridColumn name="firstName" index="firstName" title="Nombre"
23        sortable="true" search="true"
24        searchoptions="{sopt:['eq','ne']}" />
25    <sjg:gridColumn name="lastName" index="lastName" title="Apellido"
26        sortable="true" search="true"
27        searchoptions="{sopt:['eq','ne']}" />
28 </sjg:grid>
29
30 <br/><br/><br/><br/><br/>
```

Ejemplo #3: grid3.jsp

```
1 <%@ taglib prefix="s" uri="/struts-tags"%>
2 <%@ taglib prefix="sj" uri="/struts-jquery-tags"%>
3 <%@ taglib prefix="sjg" uri="/struts-jquery-grid-tags"%>
4
5 <s:url id="remoteurl" action="jq3_execute"/>
6
7 <sjg:grid id="gridtable"
8     caption="Relacion de Personas Tabla 'PERSON' - Busqueda Multiple"
9     dataType="json"
10    href="{remoteurl}"
11    pager="true"
12    gridModel="gridModel"
13    rowList="10,15,20"
14    rowNum="10"
15    rownumbers="true"
16    navigator="true"
17    navigatorSearch="true"
18    navigatorSearchOptions="{multipleSearch:true}" >
19
20    <sjg:gridColumn name="id" index="id" title="ID" formatter="integer"
21        sortable="false" search="false"/>
22    <sjg:gridColumn name="firstName" index="firstName" title="Nombre"
23        sortable="true" search="true"
24        searchoptions="{sopt:['eq','ne']}" />
25    <sjg:gridColumn name="lastName" index="lastName" title="Apellido"
26        sortable="true" search="true"
27        searchoptions="{sopt:['eq','ne']}" />
28 </sjg:grid>
29
30 <br/><br/><br/><br/><br/>
```

Ejemplo #4: grid4.jsp

```
1 <%@ taglib prefix="s" uri="/struts-tags"%>
2 <%@ taglib prefix="sj" uri="/struts-jquery-tags"%>
3 <%@ taglib prefix="sjg" uri="/struts-jquery-grid-tags"%>
4
5 <s:url id="remoteurl" action="jq4_execute"/>
6 <s:url id="editurl" action="edit-grid-entry"/>
7
8 <sjg:grid id="gridtable"
9     caption="Relacion de Personas Tabla 'PERSON' - Edicion"
10    dataType="json"
11    href="{remoteurl}"
12    editurl="{editurl}"
13    editinline="false"
14    pager="true"
15    gridModel="gridModel"
16    rowList="10,15,20"
17    rowNum="10"
18    rownumbers="true"
19    navigator="true"
20    navigatorSearch="true"
21    navigatorSearchOptions="{multipleSearch:true}"
22
23    navigatorAddOptions="{
24        height:280,
25        reloadAfterSubmit:true,
26        afterSubmit:function(response, postData) {
27            return isError(response.responseText);
28        }
29    }"
```



```
30 navigatorEdit="true"
31 navigatorEditOptions="{
32     height:280,
33     reloadAfterSubmit:true,
34     afterSubmit:function(response, postdata) {
35         return isError(response.responseText);
36     }
37 }"
38 navigatorView="true"
39 navigatorDelete="true"
40 navigatorDeleteOptions="{
41     height:280,
42     reloadAfterSubmit:true,
43     afterSubmit:function(response, postdata) {
44         return isError(response.responseText);
45     }
46 }"
47 multiselect="true"
48 viewrecords="true"
```

>

```
51
52 <sjg:gridColumn name="id" index="id" title="ID" formatter="integer" sortable="false"
53                 search="false"/>
54 <sjg:gridColumn name="firstName" index="firstName" title="Nombre" sortable="true"
55                 search="true"
56                 searchoptions="{sopt:['eq','ne']}"
57                 editable="true" />
58 <sjg:gridColumn name="lastName" index="lastName" title="Apellido" sortable="true"
59                 search="true"
60                 searchoptions="{sopt:['eq','ne']}"
61                 editable="true" />
62
63 </sjg:grid>
64
65 <br/><br/><br/><br/><br/>
```



CIBERTEC

Empieza por ti



<http://code.google.com/p/struts2-jquery/>
<http://struts.apache.org/2.2.1.1/index.html>



- Revisa los atributos disponibles para cada uno de los tags de Struts2 y jQuery
- Prueba las opciones del tag `<sj:datepicker>`