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## SigmaGrid java端的实现

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前些天看到了有人在用SigmaGrid做项目, 抱着好奇的态度学习了一下, 觉得不错, 功能很强,  
(也有人把这东西叫gt\_grid的, 反正我也搞不清)

页面代码: (因为涉及到对话框, 这里引入artDialog处理)

Java代码

```
1. var grid_demo_id = "myGrid" ;
2. $(function(){
3.     var dsOption= {
4.         fields:[
5.             /**type可以是string(default),int,float,date*/
6.             { name : "check" },
7.             { name : "wpbh" },
8.             { name : "wpmc" },
9.             { name : "rkrq" },
10.            { name : "dj", type:"float" },
11.            { name : "kcs1", type:"int" },
12.            { name : "lyr" },
13.            { name : "operation" }
14.        ],
15.        recordType : "object", //返回值类型, 可以是object(需要返回json格式),也可以是array(需要返回数组格式)
16.    };
17.    var colsOption = [
18.        {id: "check", isCheckedColumn : true, width :40, align: "center", headAlign: "center",sortable:false,filterable:false,editable:false},
19.        {id: "wpbh", header: "物品编号", width :120, align: "center", headAlign: "center",sortable:true,sortOrder:"asc"},
20.        {id: "wpmc", header: "物品名称", width :120, align: "center", headAlign: "center",sortable:true },
21.        {id: "rkrq", header: "入库日期", width :120, align: "center", headAlign: "center",sortable:true },
22.        {id: "dj", header: "单价(元)", width :120, align: "center", headAlign: "center",sortable:true },
23.        {id: "kcs1", header: "库存数量", width :120, align: "center", headAlign: "center",sortable:true},
24.        {id: "lyr", header: "领用人", width :120, align: "center", headAlign: "center",sortable:true},
25.        {id: "operation", header: "操作", width :120, align: "center", headAlign: "center",sortable:false,filterable:false,editable:false,
26.            renderer: function(value,record,columnObj,grid,colNo,rowNo) {
27.                return "<a href='javascript:;' onclick='modify(\""+record.wpbh+"\" )'><img src='images/edit.png'/>修改</a>&nbsp;  <a href='javascript:;' onclick='deleteRow(\""+record.wpbh+"\" )'><img src='images/delete.png'/>删除</a>";
28.            }
29.    ];
30.    var gridOption={
31.        //customHead : "物品信息",
32.        id : grid_demo_id,
33.        width: 900,
34.        height: 400,
35.        container : "gridbox",
36.        replaceContainer : true,
37.        dataset : dsOption ,
38.        columns : colsOption,
39.        pageSize : 10 ,
40.        remoteSort:true,
41.        remoteFilter:true,
42.        selectRowByCheck:true,
```

```

45.         recountAfterSave : true ,
46.         reloadAfterSave : true,
47.         showGridMenu : true,
48.         allowCustomSkin : true ,
49.         allowFreeze : true ,
50.         allowHide : true ,
51.         allowGroup : true,
52.         resizable : true,
53.         loadURL:"getSigmaGridData.action",
54.         replaceContainer : true,
55.         toolbarPosition : "bottom",//"/top",
56.         pageSizeList : [10,20,30,50,100],
57.         toolbarContent : "nav | goto | pageSize | reload | print | xls | filter | chart | state | info ",
58.         onComplete:function(grid){
59.
60.         },
61.     };
62.
63.     var mygrid=new Sigma.Grid( gridOption );
64.     Sigma.Util.onLoad( Sigma.Grid.render(mygrid) );
65.     $("#add").click(function(){
66.         art.dialog.open("showAddRow.action", {
67.             title : "添加记录",
68.             lock : true,
69.             opacity : 0.1,
70.             resize : false,
71.             esc : true,
72.             id : "addDialog",
73.             top : 20,
74.             width : 500,
75.             height : 300,
76.             button : [ {
77.                 name : "保存",
78.                 callback : function() {
79.                     var option = {
80.                         url:"addData.action",
81.                         type:"post",
82.                         dataType:"json",
83.                         success: function(flag) {
84.                             if(flag){
85.                                 showInfo("保存成功! ");
86.                             }
87.                             Sigma.$grid(grid_demo_id).reload();
88.                         },
89.                         "error":function(flag){
90.                             showError("删除成功! ");
91.                             Sigma.$grid(grid_demo_id).reload();
92.                         }
93.                     };
94.                     var form=$(this.iframe).contents().find("form");
95.                     $(form).ajaxSubmit(option);
96.                     this.close();
97.                 },
98.                 focus : true
99.             }, {
100.                 name : "关闭",
101.                 callback : function() {
102.                     this.close();
103.                     return false;
104.                 }
105.             } ]
106.         }, false);
107.     });
108.     $("#del").click(function(){
109.         var selected = Sigma.$grid(grid_demo_id).getSelectedRecords();
110.         var isCheck = "";
111.         $(selected).each(function(){
112.             isCheck+=""+this.wpbh+"";
113.         });
114.         if(isCheck==""){
115.             showInfo("请选择要删除的记录! ");
116.         }else{
117.             showConfirm("是否要删除该信息? ",function(){
118.                 isCheck = "("+isCheck.substring(0,isCheck.length-1)+")";
119.                 $.ajax({
120.                     "url":"deleteGridRow.action",
121.                     "type":"post",
122.                     "dataType":"json",
123.                     "data":{"isCheck="+isCheck,
124.                     "success":function(data){
125.                         if(data){
126.                             showInfo("删除成功! ");
127.                         }
128.                         Sigma.$grid(grid_demo_id).reload();
129.                     },
130.                     "error":function(data){

```

```

131.             showError("删除失败！");
132.             Sigma.$grid(grid_demo_id).reload();
133.         }
134.
135.     });
136. });
137.
138. }
139. });
140. });

```


后台处理代码：使用struts2+oracle实现

要说明的是sigmaGrid把前台的参数封装在\_gt\_json里面,

action获取后需要解析这个参数:

参数很长，大致是这个格式

```
/**{"recordType":"object","pageInfo":{"pageSize":10,"pageNum":1,"totalRowNum":-1,"totalPageNum":0,"startRowNum":1,"endRowNum":-1},
{"columnId":"wpbh","fieldName":"wpbh","sortOrder":"asc","getSortValue":null,"sortFn":null}], "filterInfo":
{"columnId":"rkrq","fieldName":"rkrq","logic":"like","value":"00001"}], "remotePaging":true,"parameters":{"}, "action":"load"}*/
```

Java代码 

```

1. package action;
2.
3.
4. import javax.servlet.http.HttpServletResponse;
5.
6.
7. import org.apache.struts2.ServletActionContext;
8.
9. import pojo.SigmaGridParameter;
10.
11. import util.DtpUtils;
12.
13. import dao.CTL_WYREPORT;
14.
15. public class SigmaGridAction {
16.     private String _gt_json;
17.
18.     public String list(){
19.         try {
20.             SigmaGridParameter sgp = DtpUtils.getSigmaGridParameter(_gt_json);
21.             CTL_WYREPORT ctl = new CTL_WYREPORT();
22.             String jsonStr = DtpUtils.toJSONForSigmaGrid(ctl.getSigmaGridItemList(sgp.getPageSize(),sgp.getPageNum(),sgp.getFieldName()));
23.             HttpServletResponse response = ServletActionContext.getResponse();
24.             response.setCharacterEncoding("UTF-8");
25.             response.getWriter().print(jsonStr);
26.         } catch (Exception e) {
27.             e.printStackTrace();
28.         }
29.         return null;
30.     }
31.
32.     public String get_gt_json() {
33.         return _gt_json;
34.     }
35.
36.     public void set_gt_json(String _gt_json) {
37.         this._gt_json = _gt_json;
38.     }
39.
40. }

```

### 解析参数的工具类:

json-lib解析是有点繁琐，不过由外到内一点儿一点儿慢慢也能出来

Java代码 

```

1. public class DtpUtils {
2.     public static SigmaGridParameter getSigmaGridParameter(String _gt_json){
3.         SigmaGridParameter sgp = new SigmaGridParameter();
4.         //SigmaGrid表格的配置参数字符串
5.         /**{"recordType":"object","pageInfo":{"pageSize":10,"pageNum":1,"totalRowNum":-1,"totalPageNum":0,"startRowNum":1,"endRc
        [{"columnId":"wpbh","fieldName":"wpbh","sortOrder":"asc","getSortValue":null,"sortFn":null}], "filterInfo":
        [{"columnId":"rkrq","fieldName":"rkrq","logic":"'like','value':'00001'}],"remotePaging":true,"parameters":{},"action":"load"}*/
6.         /**解析二重json字符串，获取前台传过来的参数*/
7.         JSONObject jsonObj = JSONObject.fromObject(_gt_json);
8.         String pageInfo = jsonObj.getString("pageInfo");
9.         String sortInfo = jsonObj.getString("sortInfo");
10.        String filterInfo = jsonObj.getString("filterInfo");
11.        //分页对象
12.        JSONObject pageJsonObj = JSONObject.fromObject(pageInfo);
13.        int pageSize = Integer.parseInt(pageJsonObj.getString("pageSize"));
14.        int pageNum = Integer.parseInt(pageJsonObj.getString("pageNum"));
15.        //排序对象
16.        JSONArray sortArray = JSONArray.fromObject(sortInfo);

```

```

17.     JSONObject sortJsonObj = (JSONObject) sortArray.get(0);
18.     String fieldName = sortJsonObj.getString("fieldName");
19.     String sortOrder = sortJsonObj.getString("sortOrder");
20.     //查询对象
21.     List <FilterCondition> conditions = new ArrayList<FilterCondition>();
22.     JSONArray filterArray = JSONArray.fromObject(filterInfo);
23.     for(int i = 0; i<filterArray.size();i++){
24.         JSONObject filterObj = (JSONObject) filterArray.get(i);
25.         FilterCondition condition = new FilterCondition();
26.         condition.setFieldName(filterObj.getString("fieldName"));
27.         //转译运算符
28.         condition.setLogic(TranslactionLogic.getLogicMark(filterObj.getString("logic")));
29.         if("like".equals(filterObj.getString("logic"))){
30.             condition.setValue("%"+filterObj.getString("value")+"%");
31.         }else{
32.             condition.setValue(filterObj.getString("value"));
33.         }
34.         conditions.add(condition);
35.     }
36.     sgp.setConditions(conditions);
37.     sgp.setPageNum(pageNum);
38.     sgp.setPageSize(pageSize);
39.     sgp.setSortOrder(sortOrder);
40.     sgp.setFieldName(fieldName);
41.
42.     return sgp;
43. }
44. }
45. sigma有个有点恶心的问题，就是过滤条件不是以运算符的格式传过来的，而是如equal，notEqual，less等等这样的字符出现的，
    endWith的正确性(我对这两个在oracle语法的实现有点陌生)
46. <pre class="java" name="code">public class TranslactionLogic {
47.     public static String getLogicMark(String markname) {
48.         if ("equal".equals(markname)) {
49.             return "=";
50.         }
51.         } else if ("notEqual".equals(markname)) {
52.             return "<";
53.         }
54.         } else if ("less".equals(markname)) {
55.             return "<";
56.         }
57.         } else if ("great".equals(markname)) {
58.             return ">";
59.         }
60.         } else if ("lessEqual".equals(markname)) {
61.             return "<=";
62.         }
63.         } else if ("greatEqual".equals(markname)) {
64.             return ">=";
65.         }
66.         } else if ("startWith".equals(markname)) {
67.             return "start with";
68.         }
69.         } else if ("endWith".equals(markname)) {
70.             return "end with";
71.         }
72.         } else if ("like".equals(markname)) {
73.             return "like";
74.         }
75.         } else {
76.             return null;
77.         }
78.     }
79. }
80. }
81. </pre>
82. <br>

```

dao层：(为省事直接把参数拼在sql里面，正式项目不要这么写)

Java代码 ☆

```

1. public SigmaGridResultBean getSigmaGridItemList(int pageSize, int pageNum, String fieldName, String sortOrder, List<FilterCondition>
2.     Connection conn = null;
3.     PreparedStatement prep = null;
4.     ResultSet rs = null;
5.     SigmaGridResultBean bean = new SigmaGridResultBean();
6.     try {
7.         String sql="select * from JZ_WPGLB a where 1=1 ";
8.         //查询
9.         if(conditions.size()>0){
10.             for(FilterCondition fc:conditions){
11.                 sql += " and "+fc.getFieldName()+" "+fc.getLogic()+" "+fc.getValue()+" ";
12.             }
13.         }
14.         //排序

```

```
15.      sql+=" order by "+fieldName+" "+sortOrder+" ";
16.      //分页
17.      int start = (pageNum-1)*pageSize+1;
18.      int end = pageNum*pageSize;
19.      String pageSQL ="select * from ( select rownum rn ,a.* from (" +sql+" ) a where rownum <="+end+" ) where rn>="+start;
20.      String countSql = "select count(*) from (" + sql + ")";
21.      conn =getConnection();
22.      prep = conn.prepareStatement(countSql);
23.      rs = prep.executeQuery();
24.      rs.next();
25.      bean.setTotalRowNum(rs.getInt(1));
26.      prep = conn.prepareStatement(pageSQL);
27.      rs= prep.executeQuery();
28.      List<Item> list = new ArrayList<Item>();
29.      while(rs.next()){
30.          Item item = new Item();
31.          item.setWpbh(rs.getString("wpbh"));
32.          item.setWpmc(rs.getString("wpmc"));
33.          item.setKcsl(Integer.toString(rs.getInt("kcsl")));
34.          item.setLyr(rs.getString("lyr"));
35.          item.setRkrq(rs.getString("rkrq"));
36.          item.setDj(rs.getBigDecimal("dj").toString());
37.          list.add(item);
38.      }
39.      bean.setList(list);
40.  } catch (Exception e) {
41.      e.printStackTrace();
42.  } finally{
43.      if(rs!=null){
44.          rs.close();
45.      }
46.      if(prepare!=null){
47.          prep.close();
48.      }
49.      closeConnection();
50.  }
51.
52.      return bean;
53.  }
```

附件是同一张表分别用flexigrid、datagrid和SigmaGrid实现后的结果，对比一下可以看到sigmaGrid支持灵活多条件的过滤，分页，排序，列锁定，列隐藏，列分组，数据的批量操作，打印，图标，换肤等等一些常用功能dataGrid能分页，排序，支持数据的批量操作，但无过滤，需要自己写，其他功能无flexiGrid同样能分页，排序，有过滤，过滤条件可以精确到过滤的列，列可以隐藏，列可以拖拽换位

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