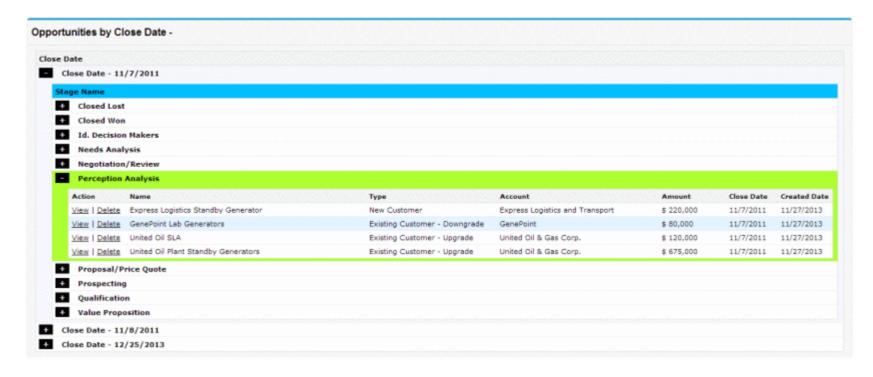
CREATING SIMPLE TREE VIEW IN VISUALFORCE



PREFACE

Recently I had a requirement where one of my client wanted a Tree view for their data. For this I suggested them jQuery Tree plugins like jsTree, jQuery Treeview Plugin etc. But She wanted its look should be like and matching with Standard Salesforce View. So I created a tree view similar to this for her. Here I have shown a demo. You can view the <u>Live Demo here</u>.

OVERVIEW

Here I have created a tree view with Opportunity records, Separated them by **Close Date** for First depth and than By their **Stage name** for second depth. For building this view I used Standard Salesforce <apex:pageBlockTable> component and Some Jquery to make it as Tree view and for some color effect there.

Here is the code for Apex Controller class to get Opportunity records:

```
OpportunityTreeViewController.cls
                 : OpportunityTreeViewController.cls
         Author : Govind Thathera
    public class OpportunityTreeViewController{
         public Map<String, Map<String, List<Opportunity>>> mapOpportunities{get;set;}
         // Get opportunity records - Calling it a page action attribute.
10
         public void fetchOpportunites(){
11
12
13
              mapOpportunities = new Map<String, Map<String, List<Opportunity>>>();
14
15
              for(Opportunity oppRecord : [Select o.Type, o.StageName, o.OwnerId, o.Name, o.IsWon, o.IsClosed, o.Id, o.Description,
16
                                                 o.CreatedDate, o.CreatedById, o.CloseDate, o.Amount, o.AccountId, o.Account.Name
17
                                                 From Opportunity o
18
                                                 WHERE StageName in:getOpportunityStages() order by o.CloseDate Desc]){
19
20
                  String closeDate = oppRecord.CloseDate.format();
21
                  if(mapOpportunities.get(closeDate) != null){
22
                       if(mapOpportunities.get(closeDate).get(oppRecord.StageName) != null)
23
                            mapOpportunities.get(closeDate).get(oppRecord.StageName).add(oppRecord);
24
                       else
25
                            mapOpportunities.get(closeDate).put(oppRecord.StageName, new List<Opportunity>{oppRecord});
26
27
                  else{
28
                       mapOpportunities.put(closeDate, new Map<String, List<Opportunity>>{oppRecord.StageName => new List<Opportunity>{oppRecord}});
29
30
31
32
33
34
35
         // Get List of Stage names of Opportunity.
         private static List<String> getOpportunityStages(){
              List<String> stages = new List<String>();
36
              // Get DescribeFieldResult for Opportunity StageName picklist.
37
              Schema.DescribeFieldResult fieldResult = Opportunity.StageName.getDescribe();
38
              List<Schema.PicklistEntry> ple = fieldResult.getPicklistValues();
39
40
              for( Schema.PicklistEntry f : ple){
41
                     stages.add(f.getLabel()); // Add Stage Name to list.
42
43
              return stages; // Return all Stages.
44
45
```

Here is the code for Visualforce page where I'm iterating this Map using <apex:pageBlockTable> component and applied some jquery there:

background: black;

9

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```
color: whitesmoke;
10
11
                    margin-bottom:10px;
12
                    cursor:pointer;
13
14
15
               .pbBody table.list tr.dataRow td {
                    font-family: verdana;
16
                    font-weight: normal;
17
18
          </style>
19
20
          <apex:form id="frm">
21
               <apex:pageBlock id="pb1" title="Opportunities by Close Date -">
22
23
                    <apex:variable value="{!0}" var="dateIndex"/>
                    <apex:pageBlockTable value="{!mapOpportunities}" var="dateKey" id="dateTable">
24
25
26
27
                         <apex:column style="color: #000;font-size: 11px;font-family:verdana;font-weight: bold;">
                              <apex:facet name="header">
                                   <span style="color: #000;font-size: 11px;font-family:verdana;font-weight: bold;">
                                       Close Date
28
                                   </span>
29
30
31
32
33
34
35
36
37
38
39
                              </apex:facet>
                              <span id="date-sign-{!dateIndex}" class="sign-class" onclick="toggleDateTable('{!dateIndex}');">+</span>
                              <span style="color: #000;font-size: 11px;font-family:verdana;font-weight: bold;">
                                  Close Date - {!dateKey}
                              </span>
                              <apex:variable value="{!0}" var="stageIndex"/>
                              <apex:pageBlockTable value="{!mapOpportunities[dateKey]}" var="stageKey" id="stageTable" style="display:none;margin-top:10px;margin-left:20px;width:98%;">
                                   <apex:column style="color: #000;font-size: 11px;font-family:verdana;font-weight: bold;">
                                        <apex:facet name="header">
                                            <span style="color: #000;font-size: 11px;font-family:verdana;font-weight: bold;">
                                                 Stage Name
40
                                            </span>
41
42
43
                                        </apex:facet>
                                        <span id="stage-sign-{!dateIndex}-{!stageIndex}" class="sign-class" onclick="toggleStagesTable('{!dateIndex}','{!stageIndex}');">+</span>
                                        <span style="color: #000;font-size: 11px;font-family:verdana;font-weight: bold;">
44
                                            {!stageKey}
45
46
47
                                        </span>
                                        <apex:variable value="{!0}" var="recordIndex"/>
                                        <apex:pageBlockTable value="{!mapOpportunities[dateKey][stageKey]}" var="oppRecord" id="opportunityTable" style="margin-top:10px;margin-left:20px;width:98%;display:none;">
48
                                            <apex:column headerValue="Action" style="width: 85px;">
                                                 <apex:outputLink value="javascript:void(0);" target="_Blank">View</apex:outputLink>&nbsp; |&nbsp;
<apex:outputLink value="javascript:void(0);" target="_Blank">Delete</apex:outputLink>
49
50
51
52
53
54
55
56
57
58
59
60
61
62
                                             </apex:column>
                                            <apex:column headerValue="Name" value="{!oppRecord.Name}"/>
                                            <apex:column headerValue="Type" value="{!oppRecord.Type}" style="width: 200px;"/>
                                            <apex:column headerValue="Account" value="{!oppRecord.Account.Name}" style="width: 250px;"/>
                                            <apex:column headerValue="Amount" style="width: 100px;">
                                                 <apex:outputText value="$ {0, number,###,###,###}">
                                                      <apex:param value="{!oppRecord.Amount}"/>
                                                 </apex:outputText>
                                             </apex:column>
                                            <apex:column headerValue="Close Date" value="{!oppRecord.CloseDate}" style="width: 75px;"/>
                                             <apex:column headerValue="Created Date" style="width:80px">
                                                 <apex:outputText value="{0, date,MM/dd/yyyy}">
63
                                                       <apex:param value="{!oppRecord.CreatedDate}"/>
64
                                                 </apex:outputText>
65
66
67
                                                 <apex:variable value="{!recordIndex+1}" var="recordIndex"/>
                                             </apex:column>
                                        </apex:pageBlockTable>
68
69
70
71
                                        <apex:variable value="{!stageIndex+1}" var="stageIndex"/>
                                  </apex:column>
                              </apex:pageBlockTable>
                              <apex:variable value="{!dateIndex+1}" var="dateIndex"/>
72
                         </apex:column>
73
                    </apex:pageBlockTable>
74
               </apex:pageBlock>
75
          </apex:form>
76
77
          <!-- Script Part -->
          <script src="//code.jquery.com/jquery-1.10.2.min.js"/>
78
79
          <script>
80
               $(document).ready(function(){
                    $(esc('pg:frm:pb1:dateTable:tb')+" > tr").attr("onmouseover","");
81
82
                    $("[id$='stageTable:tb'] > tr").attr("onmouseover","");
83
                    $(esc('pg:frm:pb1:dateTable:tb')+" > tr > td").hover(function(){$(this).css("background-color", "ghostwhite");}, function(){$(this).css("background-color", "white");});
84
                    $("[id$='stageTable:tb'] > tr > td").hover(function(){$(this).css("background-color", "greenyellow");}, function(){$(this).css("background-color", "white");});
85
86
                    $("[id$='stageTable'] > thead .headerRow").css("background-color","deepskyblue");
               });
87
88
               function toggleDateTable(index){
89
                    var signtext = $("#date-sign-"+index).text();
90
91
                    var tableId = 'pg:frm:pb1:dateTable:'+index+':stageTable';
                    if(signtext == '+'){
92
93
94
95
                         $("#date-sign-"+index).text('-').css("padding", " 0px 7px");
                         $(esc(tableId)).show();
                    else{
96
                         $("#date-sign-"+index).text('+').css("padding", " 0px 5px");
97
                         $(esc(tableId)).hide();
```

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```
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     98
     99
    100
                        function toggleStagesTable(rootindex, childindex){
   var signtext = $("#stage-sign-"+rootindex+"-"+childindex).text(); //address-sign-index-addIndex
   var tableId = 'pg:frm:pb1:dateTable:'+rootindex+':stageTable:'+childindex+':opportunityTable';
   if(signtext == '+'){
    101
    102
103
104
105
                                     $("#stage-sign-"+rootindex+"-"+childindex).text('-').css("padding", " 0px 7px");
    106
107
                                     $(esc(tableId)).show();
    108
                               else{
                                     $("#stage-sign-"+rootindex+"-"+childindex).text('+').css("padding", " 0px 5px");
    109
    110
                                     $(esc(tableId)).hide();
    111
    112
    113
114
                        function esc(myid) {
    115
                              return '#' + myid.replace(/(:|\.)/g,'\\$1');
    116
    117
    118
                  </script>
   119 </apex:page>
```