

Different color bar chart with popup box in ADF

Department wise employee count graph with popup Box in ADF:

(popup box shows Employees names and manager name for particular department).

I am going to explain how we can create the model value for bar graph which we can pass in the tabular data attribute of bar graph and popupbox.

1. Get Data From Table
2. Mention Different colors and popup logic in bean.
3. Call your method in ADF barGraph tabular data attribute and listener.

1. Get Data From Table:

- a) Get Data for graph
 - b) Get Data for popup box information
-
- a) Get Data for graph

Following code explains we are creating List<String> from VO, each element of the list holds particular Department Name and Employees count of the particular department.

Because Name is the x-axis of the graph and Employees count is the bars length of the graph.

```
public List<String> deptGraph()throws Exception{  
    int i=0;  
    List <String> list1=new ArrayList<String>();  
    try{  
        ViewObjectImpl impl=getViewObj1_1();  
        impl.executeQuery();  
        while(impl.hasNext()){  
            Row row=impl.next();  
            i++; String st=row.getAttribute("Deptname")+","+row.getAttribute("Count1")+"";
```

```

        list1.add(st);
    }
}

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

    return list1;
}

```

b)Get Data for popup box information:

1.If I click particular department bar one popup box will open it should display employees name and manager name of the particular department.

2.following method should return particular department Employees names.

```

public List<String> getEmployees(String deptName){
    List<String> list=new ArrayList<String>();
    ViewObjectImpl vo=getViewObj3_1();
    ViewCriteria vc=vo.getViewCriteria("FindEmployees");
    vo.setNamedWhereClauseParam("pDeptName", deptName);
    vo.applyViewCriteria(vc);
    vo.executeQuery();
    while(vo.hasNext()){
        Row row=vo.next();
        list.add(row.getAttribute("Name").toString());
    }
}

```

```
    return list;
}
```

3. following method should return particular department Manager name.

```
public String getManager(String deptName){
    ViewObjectImpl vo=getViewObj3_1();
    ViewCriteria vc=vo.getViewCriteria("GetManager");
    vo.setNamedWhereClauseParam("pDeptName", deptName);
    vo.applyViewCriteria(vc);
    vo.executeQuery();
    while(vo.hasNext()){
        Row row=vo.next();
        return row.getAttribute("Managename").toString();
    }
    return null;
}
```

2. Mention Different colors and popup logic in bean:

a) Different color bars Logic.

b) Popup box logic in Bean.

a) Different color bars Logic.

```
public void setListObject1(List<Object[]> listObject1) {
    this.listObject1 = listObject1;
}
```

```
public List<Object[]> getListObject1() {
    try{
```

```

    int j=0;

    AppModule1Impl
    impl=(AppModule1Impl)Configuration.createRootApplicationModule("com.tad.model.eo.AppModule1",
    "AppModule1Local");

    List<String> list= impl.deptGraph();

    for(int i=0;i<list.size();i++){

        j++;

        String[] st=list.get(i).split(",");

        Object[] obj1 = { st[0], "Series_" +j, Integer.parseInt(st[1]) };

        listObject1.add(obj1);

    }

    Configuration.releaseRootApplicationModule(impl, true);

}

catch(Exception e){

    e.printStackTrace();

}

return listObject1;

}

```

1. In this existing code we just call the list which we prepared in Application module.

2. ADF barGraph tabular data attribute expecting List<Object[]>.

Object[] should contain x-axis,color,bars.

"maintenance", "Series_1", 7 :-

i) it is x axis value

ii) it is series name (here only one series is present and that is Series_1)

iii) it is data point value or y axis value which always be integer or double.

3. So we generated setter and getter attribute `for private List<Object[]> listObject1=new ArrayList<Object[]>();`

4. Getter method of the listObject1 we need to mention colors of the bars.

5. Here series_1 represent one color and series_2 represent another color ... series_3....etc.

6. so when we iterate the list which we prepared in Application module

We create one object array in this array we mentioned different color.

For example:

```
for(int i=0;i<list.size();i++){  
    j++;  
    String[] st=list.get(i).split(",");  
    Object[] obj1 = { st[0], "Series_" + j, Integer.parseInt(st[1]) };  
    listObject1.add(obj1);  
}
```

7. Finally all the object arrays are added in list, each object array having particular Department name, bar color, Department employee count.

b) Popup box logic in Bean:

when click the any bar automatically this method will be called.

```
public void onPieClick(ClickEvent clickEvent) {  
    String deptName = null;  
    ComponentHandle handle = clickEvent.getComponentHandle();  
    if (handle instanceof DataComponentHandle) {  
        DataComponentHandle dhandle = (DataComponentHandle)handle;  
        Attributes[] groupInfo = dhandle.getGroupAttributes();  
        if (groupInfo != null) {  
            for (Attributes attrs : groupInfo) {  
                deptName =  
                    (String)attrs.getValue(Attributes.LABEL_VALUE);  
            }  
        }  
    }  
}
```

```

    }

    AppModule1Impl
    impl=(AppModule1Impl)Configuration.createRootApplicationModule("com.tad.model.eo.AppModule1",
    "AppModule1Local");

    List<String> list=impl.getEmployees(deptName);

    String managerName=impl.getManager(deptName);

    Configuration.releaseRootApplicationModule(impl, true);

    FacesContext ctx = FacesContext.getCurrentInstance();

    FacesMessage msg =
        new FacesMessage("Employees in "+ deptName+" Department : " +list);

    FacesMessage msg1 =
        new FacesMessage( "Manager Name:"+ managerName);

    msg.setSeverity(FacesMessage.SEVERITY_INFO);
    msg1.setSeverity(FacesMessage.SEVERITY_INFO);

    ctx.addMessage(null, msg);
    ctx.addMessage(null, msg1);

    }
}

```

1)From the existing code `(String)attrs.getValue(Attributes.LABEL_VALUE);` explains ,

Get label value of the particular bar that means department name.

```

2)    FacesMessage msg =
        new FacesMessage("Employees in "+ deptName+" Department : " +list);

    FacesMessage msg1 =
        new FacesMessage( "Manager Name:"+ managerName);

```

explains Emploess names list and manager name are added faces message.

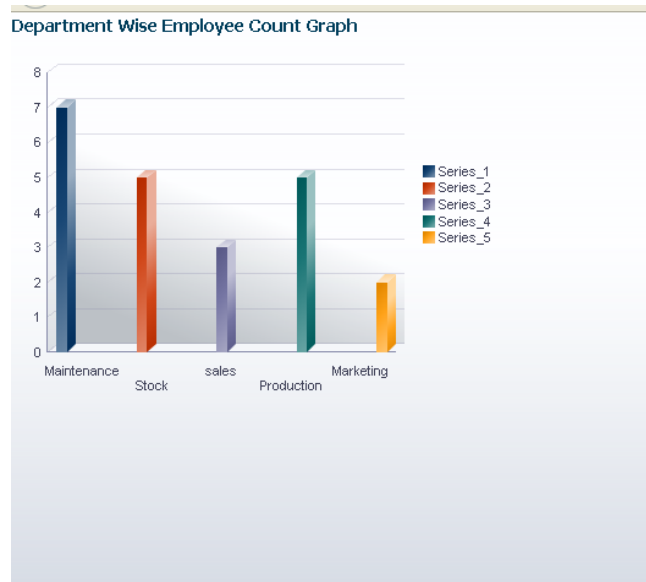
3.Call your method in ADF barGraph tabular data attribute and listener.

```
<dvt:barGraph id="barGraph1" shortDesc="aa" threeDEffect="true"
    subType="BAR_VERT_CLUST" tabularData="#{graphBean.listObject1}"
    clickListener="#{graphBean.onPieClick}">
    <dvt:background>
        <dvt:specialEffects/>
    </dvt:background>
    <dvt:graphPlotArea/>
    <dvt:seriesSet> tabularData="#{graphBean.listObject1}"
        <dvt:series lineWidth="3"/>
    </dvt:seriesSet>
    <dvt:o1Axis/>
    <dvt:y1Axis/>
    <dvt:legendArea automaticPlacement="AP_NEVER"/>
</dvt:barGraph>
```

- a) `tabularData="#{graphBean.listObject1}"` → Graph details
- b) `clickListener="#{graphBean.onPieClick}"` → when the user click any bar this method will be invoked.

Output:

1.



2. if the user click the production bar.

