NaturalONE Tutorial

How to create a WebGUI with NaturalONE?
- Working with charts -

Recommended Reading

- NaturalONE tutorial: How to set-up a NaturalONE project?
- NaturalONE tutorial: How to create a Web GUI with NaturalONE?
  - Creating a new Layout page -

1 In this tutorial you will learn how to create and handle a chart layout.

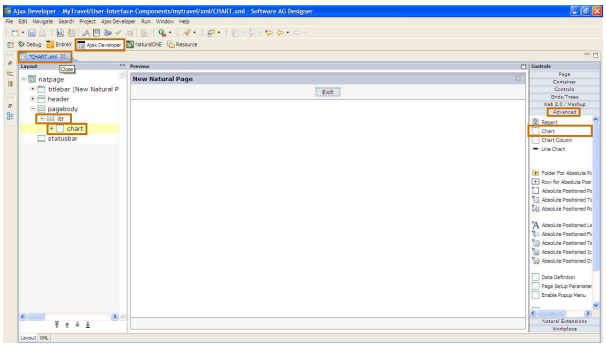
Open the *Ajax Developer* perspective.

Create a new page layout called: „*CHART*“.

Select *Controls* on the *Controls* palette and select the *Chartcontrol* icon.

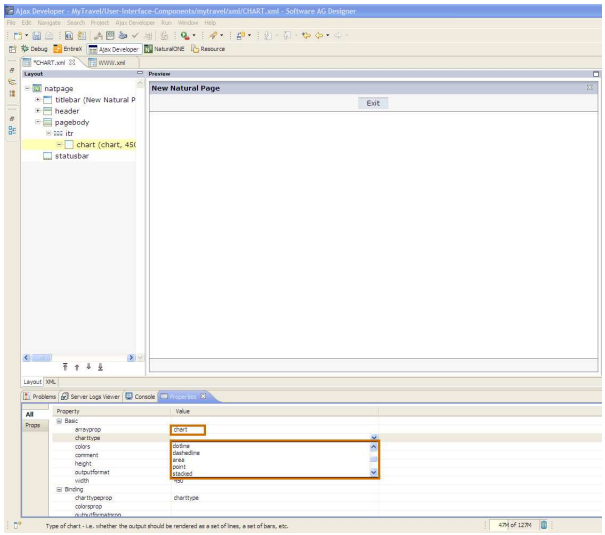
Drag and drop it onto the *Preview* pane.

On the *Layout* pane you can see an *ITR* control (which is automatically generated) and a dateinput control as a sub-node.



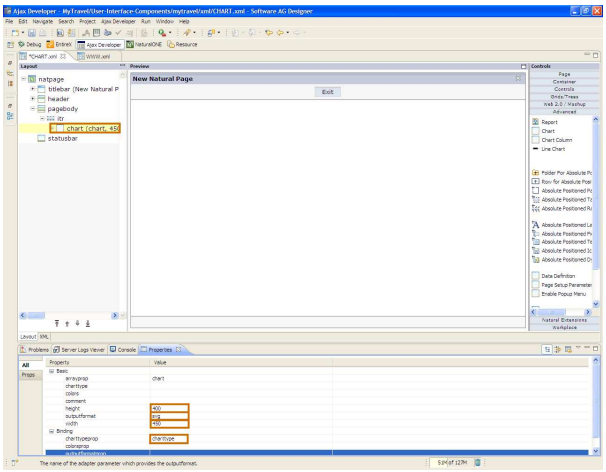
2 Select the *chart* control and modify the following properties:

- arrayprop – *chart* (this is the data structure behind this control)
- charttype - *press the Value column next to the Property name*: you will see a list of all the available types.

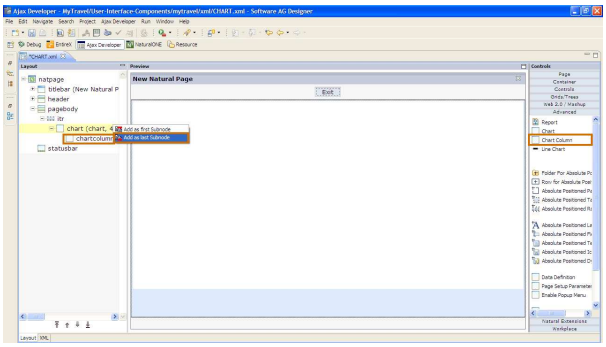


3 You can set one of the values but it's also possible to set it, dynamically at runtime by using the *charttypeprop* property:

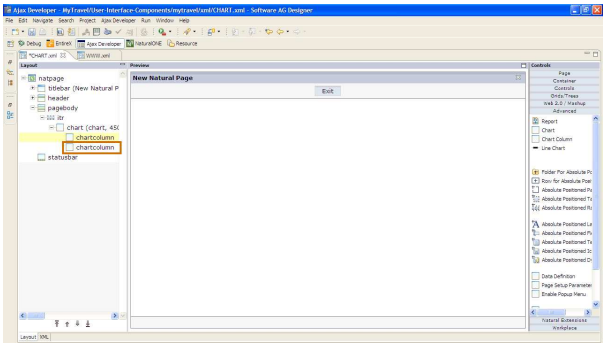
- charttypeprop – *charttype*
- height – *400*
- outputformat – *svg* if Adobe viewer is installed, if not choose: *jpeg*.
- width – *450*



4 Select *Chart Column*, drag and drop it onto the *chart* node, and *Add as last subnode*.

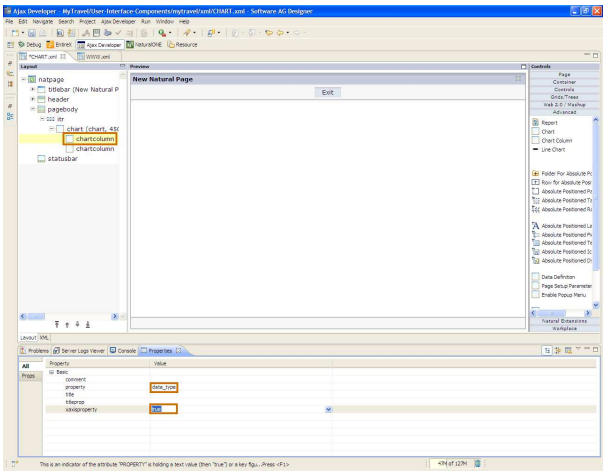


5 You will need 2 chart columns so repeat step 4.



6 Select the first column and set:
property - *data_type*
xaxisproperty - *true*.

Repeat it for the second column but only set property to *data_type*.



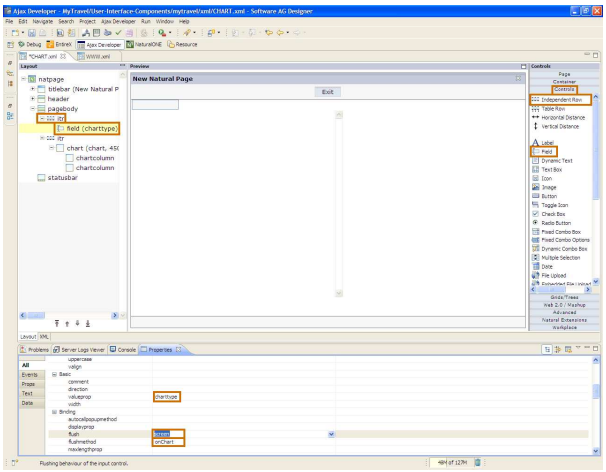
7 You will now define an input field which will provide the value for *charttypeprop*, defined before.

Select *Controls* on the *Controls* palette and select the *Independent row* icon, and *Add as First subnode*

Select the *field* icon, drag and drop it onto the new *itr*.

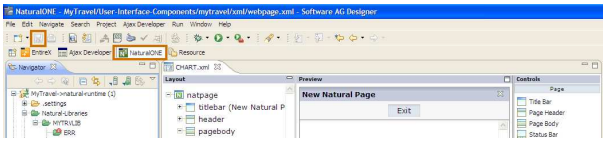
Modify the following properties as follows:

- valueprop – *charttype*, as expected by the chart control.

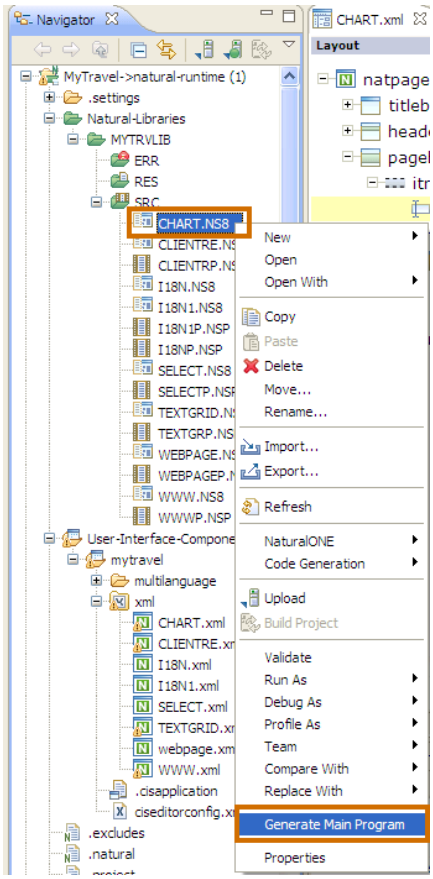


- flush – *screen*
  when modifying this field, the chart control will use and display the chart accordingly.You can set this property to screen or server; screen is enough for our use (check about flushing behavior in the documentation).
- flushmethod - *onChart*.

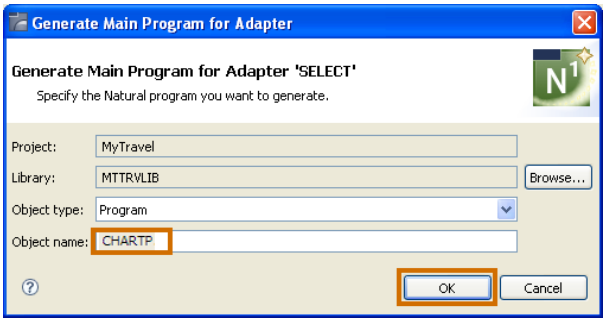
8 *Save* and select *NaturalONE perspective*.



9 Select the adapter *CHART.NS8* and choose *Generate Main Program* from the context menu.



10 Set the *Object name* to *CHARTP* and press OK.

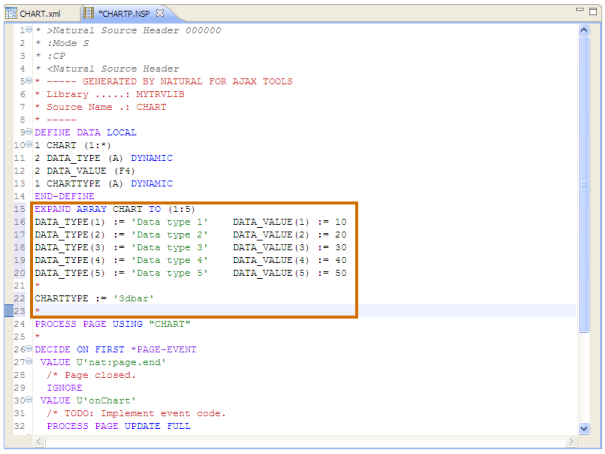


11 Add the following code after *END-DEFINE*, in order to create some values for the Chart array:

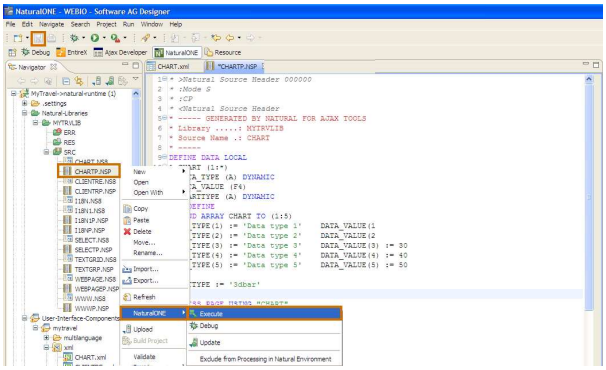
```
EXPAND ARRAY CHART TO (1:5)
DATA_TYPE(1) := 'Data type
1'     DATA_VALUE(1) := 10
DATA_TYPE(2) := 'Data type
2'     DATA_VALUE(2) := 20
DATA_TYPE(3) := 'Data type
3'     DATA_VALUE(3) := 30
DATA_TYPE(4) := 'Data type
4'     DATA_VALUE(4) := 40
DATA_TYPE(5) := 'Data type
5'     DATA_VALUE(5) := 50
*

CHARTTYPE := '3dbar'
*
```

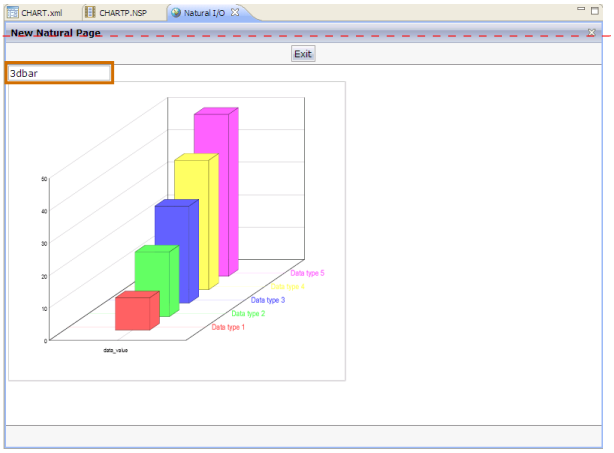
The last statement sets an initial chart type (3D Bar).



12 Save and execute *CHARTP*.



13 You can see that the chart is presented as a 3dbar.



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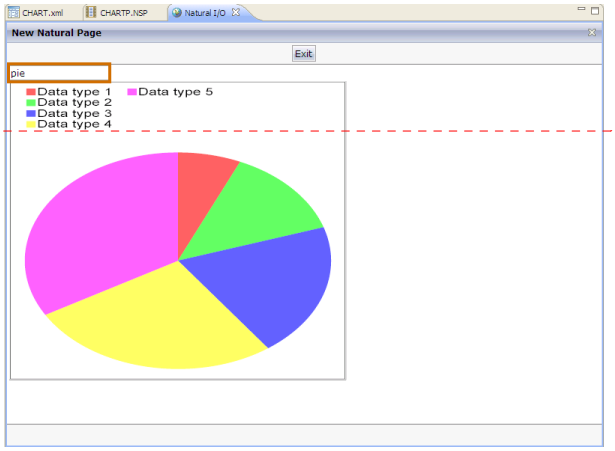
14 Change the input field to *pie* and hit Enter.

Notice that the chart style has been changed.



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