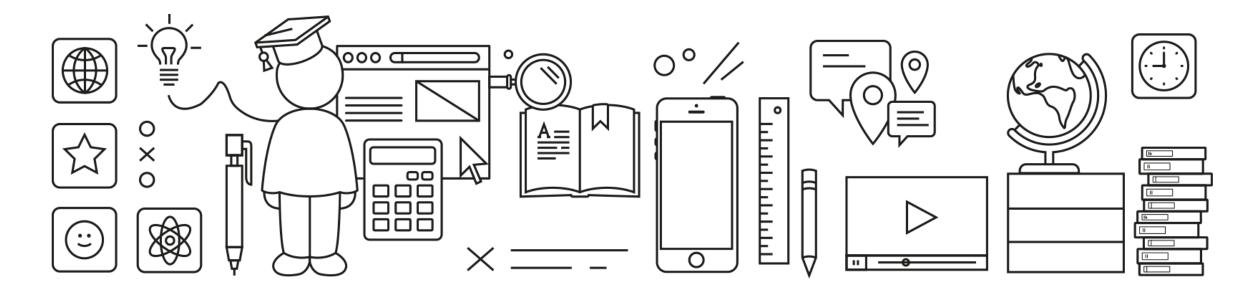


SAP Customer Experience

SAP Hybris Commerce Backoffice Framework Developer Training

Enhancing Your Cockpit





Solr Search in Backoffice

Solr Search in Backoffice

Saved Queries
Authority Groups
Dynamic Forms
ZK Charts
Switching Perspectives
SSO in Backoffice
HMC Migrator
Exercise

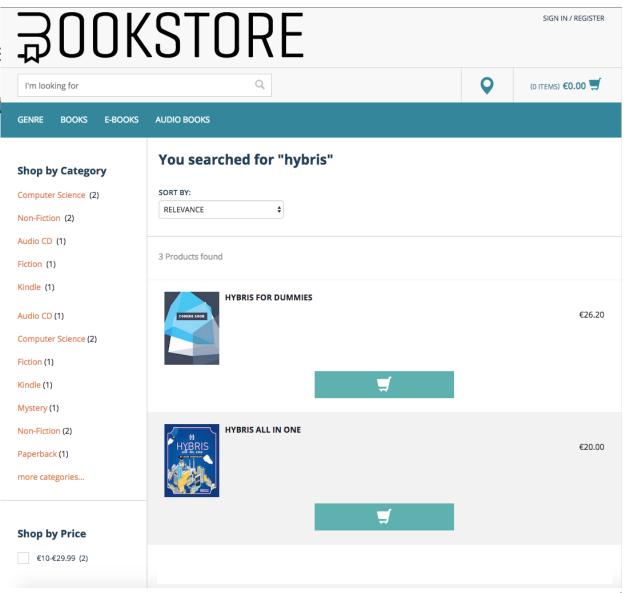
Commerce Platform • Search & Navigation Module

- SAP Commerce Accelerator comes with Solr integration by default
- Solr is a standalone enterprise search server with Webservices like API
- "Solr Facet Search" comes with Search & Navigation and:
 - supports multi-catalog, multi-language, multi-currencies
 - can be configured
 - provides advanced full-text search capabilities
 - is optimized for high volume web traffic



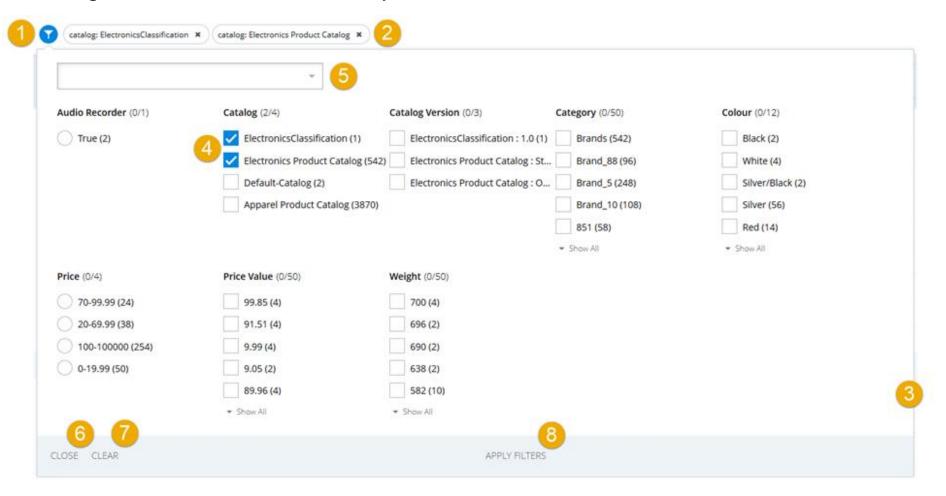
Main Benefits

- Performance: sub-second performance over millions
- Configuration: stop-words, synonyms, boosting of at
- Faceted navigation (right)
- Enhanced search syntax
- Spelling suggestions
- Autocorrect



Solr Search in the Backoffice

- With Solr enabled in Backoffice, it's possible to browse for products using facets
- You can also configure additional facets on any Product attribute.



Solr Search as a Strategy

 The FieldSearchFacade determines whether Solr is to be used for a given type. The DefaultFieldSearchFacade returns a list of objects PKs from Solr and then loads the list of actual ItemModel objects from the database

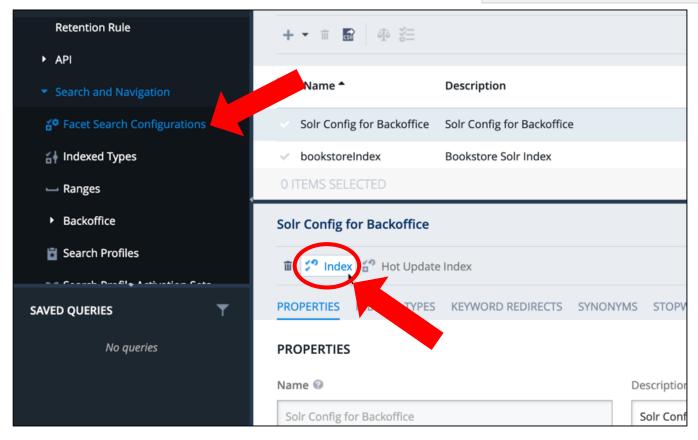


Enabling Facet Search in the Backoffice

localextensions.xml

The following extensions must be part of the build:

```
<extension name="backofficesolrsearch" />
<extension name="solrfacetsearchbackoffice" />
<extension name="solrserver" />
<extension name="solrfacetsearch" />
```



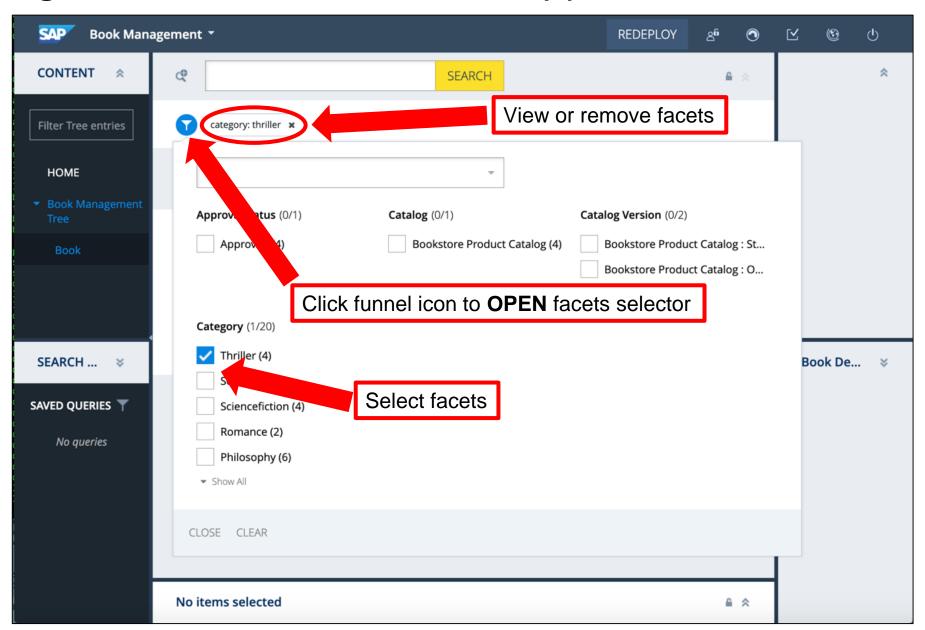
Then, go to:

System→

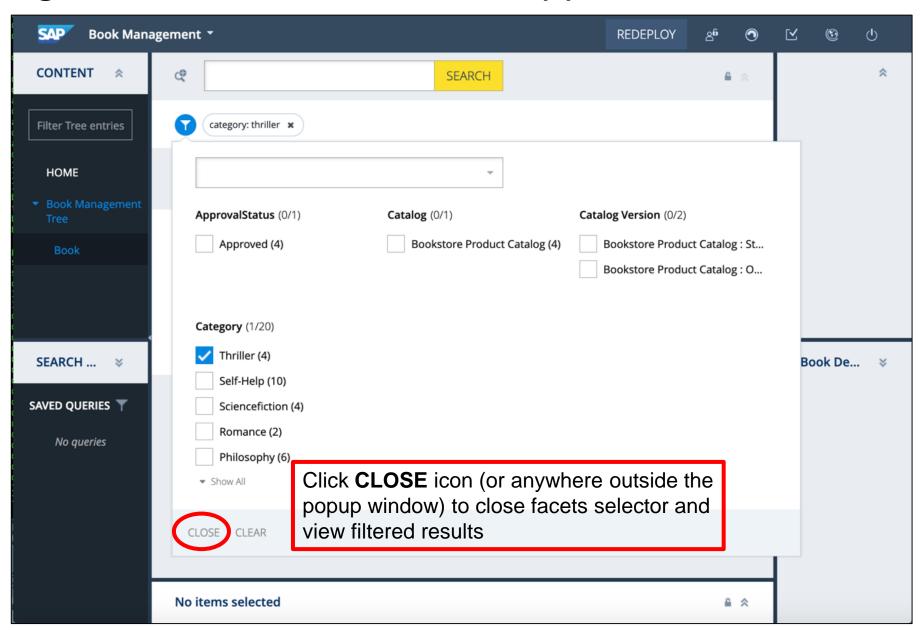
Search and Navigation→
Facet Search Configurations

...and run a full index on the new Solr Config for Backoffice

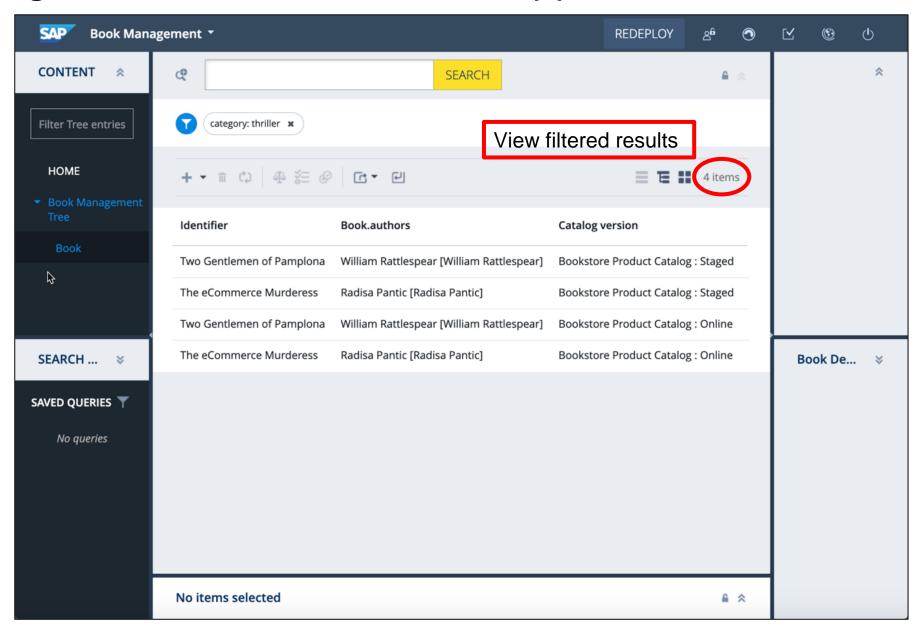
Using Facet Search in the Backoffice (1)

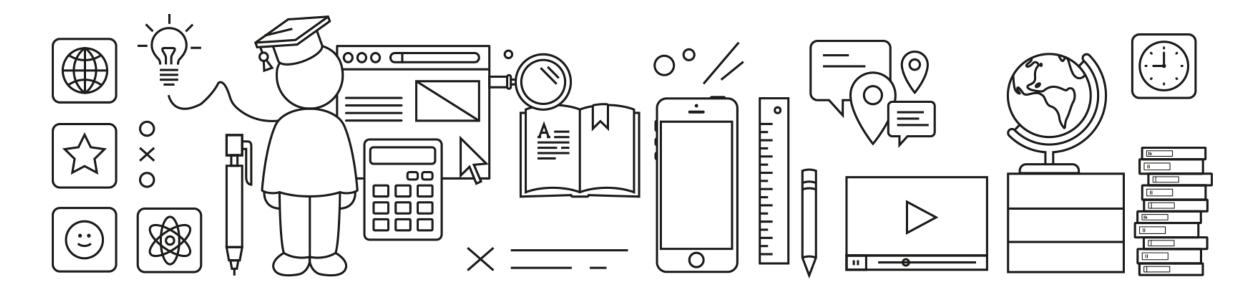


Using Facet Search in the Backoffice (2)



Using Facet Search in the Backoffice (2)





Saved Queries

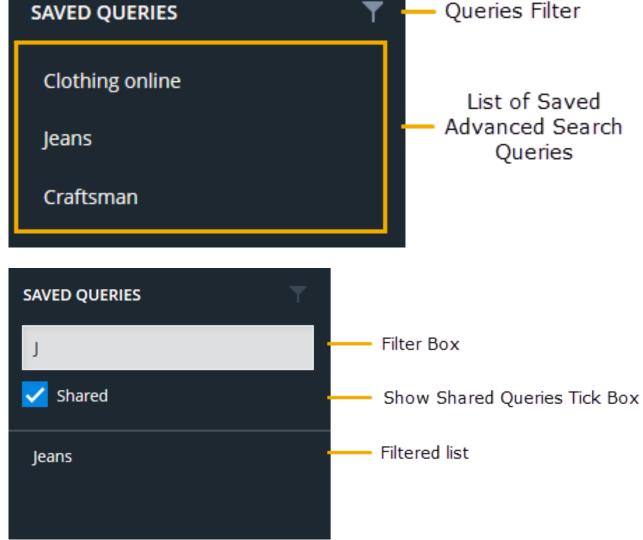
Solr Search in Backoffice

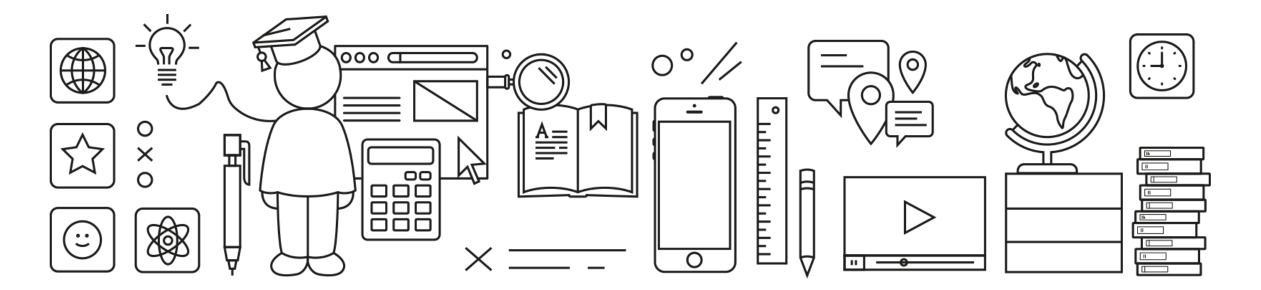
Saved Queries

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Saved Queries

- The Saved Queries List Widget lets you save advanced queries.
 - Its Query Filter facilitates filtering of the listed queries
 - You can also share saved queries with other users or user groups
 - Pressing the Save button in the Advanced Search Widget generates a BackofficeSavedQuery instance, which is passed to the List widget.





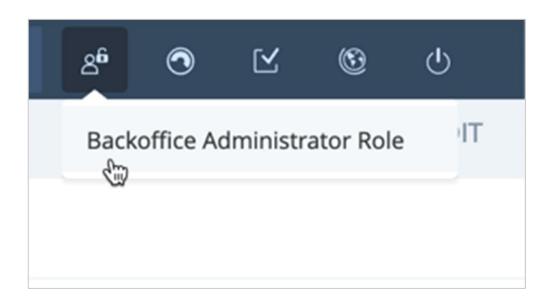
Authority Groups

Solr Search in Backoffice Saved Queries

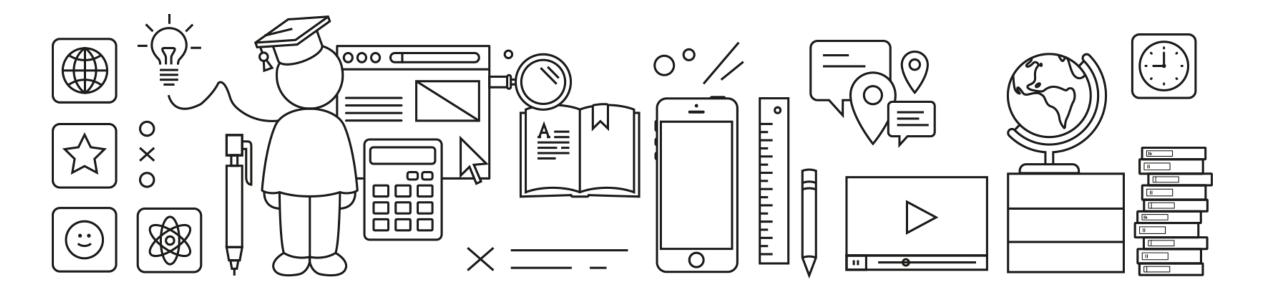
Authority Groups

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Authority Groups



- Users are assigned different Backoffice Roles, e.g. Product Manager, Translator
 - Such roles can be combined into Authority Groups
- You can restrict visibility of a specific instance of a widget for certain users, user groups, or roles
 - A Backoffice cockpit will then show a different application mash-up to different business users
 - <widget ... access="role_B, role_C" />
- You can apply context-based widget configuration based on a single user, user group, or role
 - <context ... principal="role_B" />
- There can only be one active authority group at a time in a given Backoffice application.



Dynamic Forms

Solr Search in Backoffice Saved Queries Authority Groups

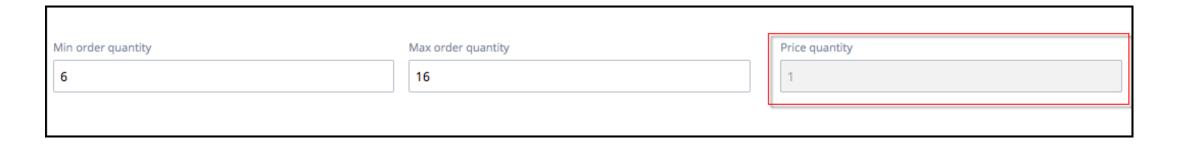
Dynamic Forms

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Exercise

Dynamic Forms - 1

Dynamic Forms enable an element of responsiveness within form segments

They work with Editor Area and Wizard widgets

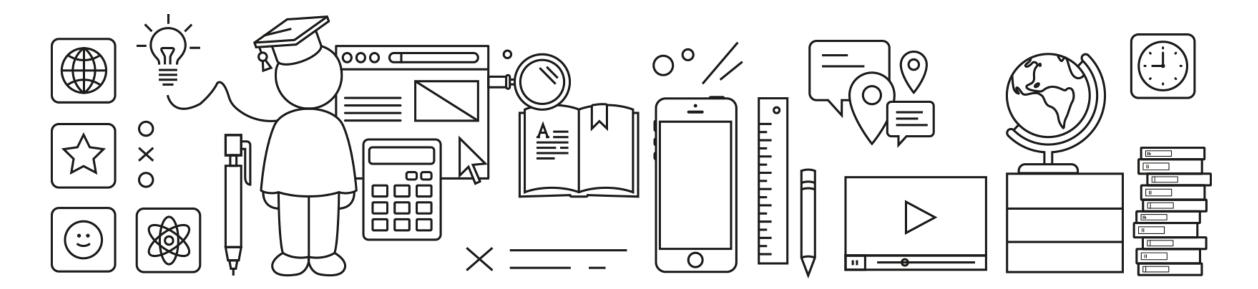


Here, the **Price quantity** field is disabled if the value of **Min order quantity** is greater than 5 or if the value of **Max order quantity** is less than 15.

Dynamic Forms - How are they configured?

cockpit-config.xml

```
<context type="Book" component="editorAreaDynamicForms" ...>
        <df:dynamicForms ...>
                <df:attribute id="uniqueId"
                         triggeredOn="*"
                          qualifier="priceQuantity"
                          disabledIf="(minOrderQuantity > 5 | |
                  maxOrderQuantity &It; 15)" />
        </df:dynamicForms>
</context>
```



ZK Charts

Solr Search in Backoffice Saved Queries Authority Groups Dynamic Forms

ZK Charts

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Building a Dashboard - 1



When the default Home node in the Explorer Tree is selected in the OOTB configuration, you see the Dashboard.

It, too, is a widget and, in turn, contains a set of Chart Widgets.

Building a Dashboard - 2

ZK Charts

myextension-backoffice-widgets.xml

```
<widget id="my_dashboard" widgetDefinitionId="com.hybris.cockpitng.dashboard"</pre>
         slotId="some slot" template="false">
   <widget id="childWidget1" widgetDefinitionId="sample.widgets.id"</pre>
         slotId="dashboardWidgets" template="false">
      <!-- widget's setting -->
   </widget>
   <widget id="childWidget2" widgetDefinitionId="sample.widgets.id"</pre>
                                                                               slotId="dashboardWidgets"
template="false">
      <!-- widget's setting -->
   </widget>
   <!-- and so on -->
</widget>
```

Building a Dashboard - 3

If you want to configure the layout of the grid, you have to provide a configuration for the dashboard component:

myextension-backoffice-config.xml

```
<context component="dashboard">
   <dsb:dashboard defaultGridId="regular">
      <dsb:grid minScreenWidth="0" maxScreenWidth="700" id="small" rowHeight="250">
         <dsb:placement widgetId="childWidget1" height="1" width="1" x="0" y="0"/>
         <dsb:placement widgetId="childWidgetN" height="1" width="1" x="0" y="1"/>
       </dsb:grid>
      <dsb:grid minScreenWidth="701" id="reqular" unassigned="append">
         <dsb:placement widgetId="childWidgetN" height="1" width="2" x="0" y="0"/>
         <dsb:placement widgetId="childWidget2" height="1" width="1" x="0" y="1"/>
         <dsb:placement widgetId="childWidget1" height="1" width="1" x="1" y="1"/>
      </dsb:grid>
   </dsb:dashboard>
</context>
```



Switching Perspectives

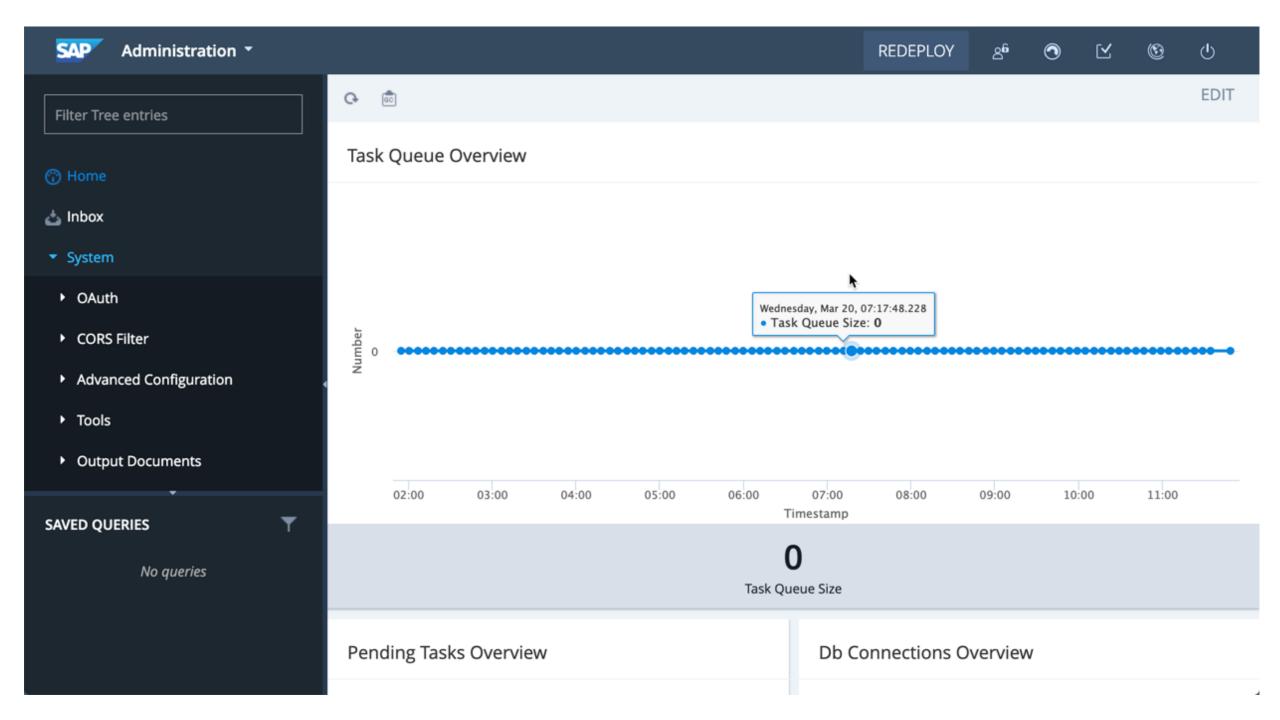
Solr Search in Backoffice
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ZK Charts

Switching Perspectives

SSO in Backoffice HMC Migrator Exercise

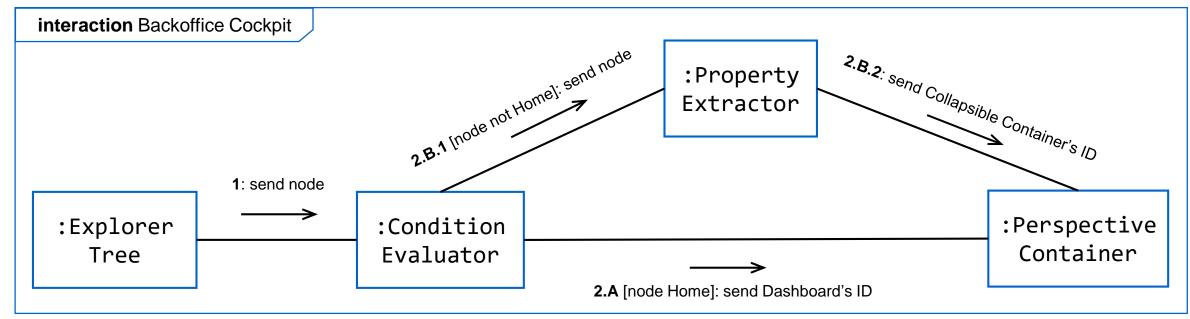
Switching Perspectives

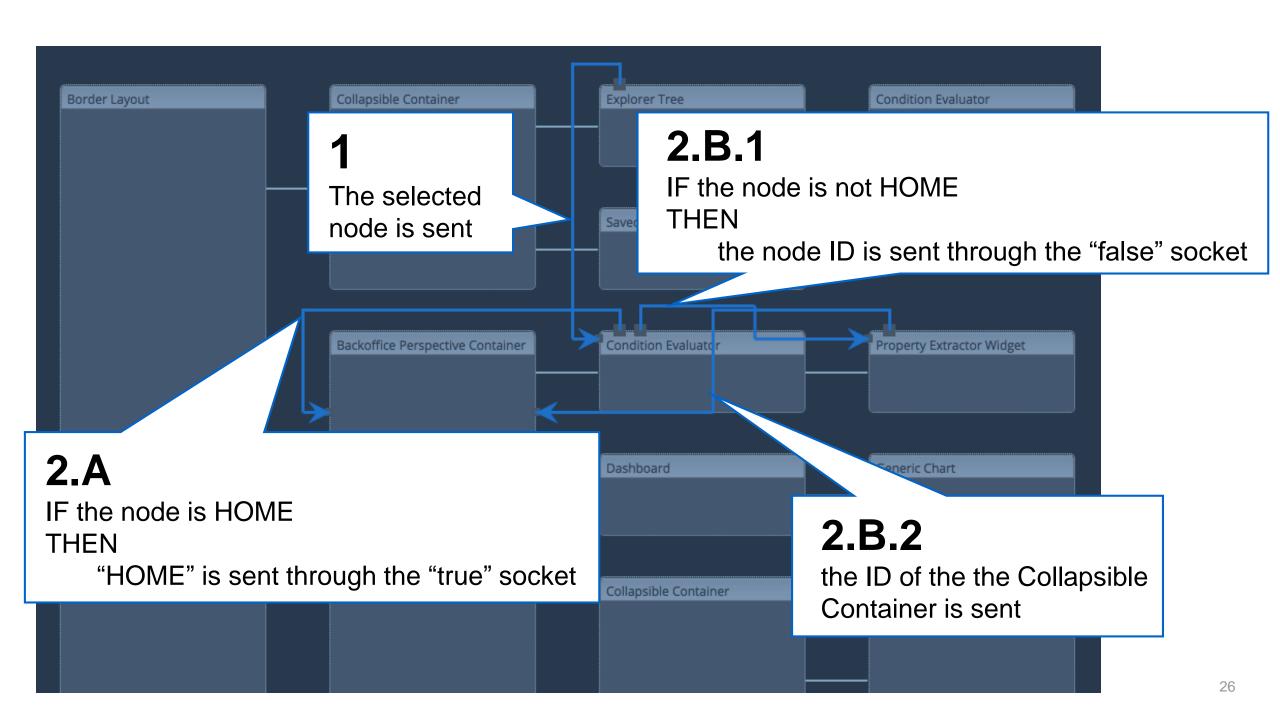
- The Perspective Container widget can contain multiple widgets
- The nodes in the Explorer Tree widget can be associated with different perspectives
- Like in the Administration cockpit:
 - Clicking on the "Home" node displays the dashboard
 - Clicking on any other node, displays the Collapsible Container that contains Advanced Search, etc.

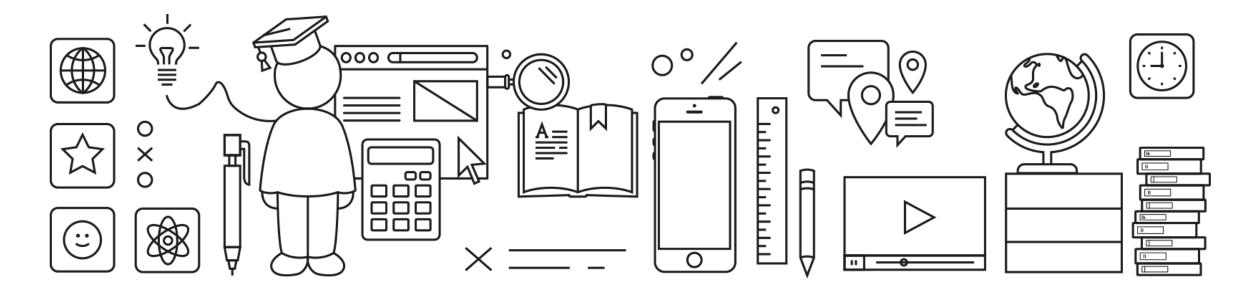


Perspective Switching Mechanism

- A communication channel must be set up in between the Explorer Tree and the Perspective Container widgets
- The Perspective Container widget has an input socket called selectPerspectiveById
- Through this socket, other widgets can switch the perspective
- Two adapter widgets are used to decide which perspective should be displayed







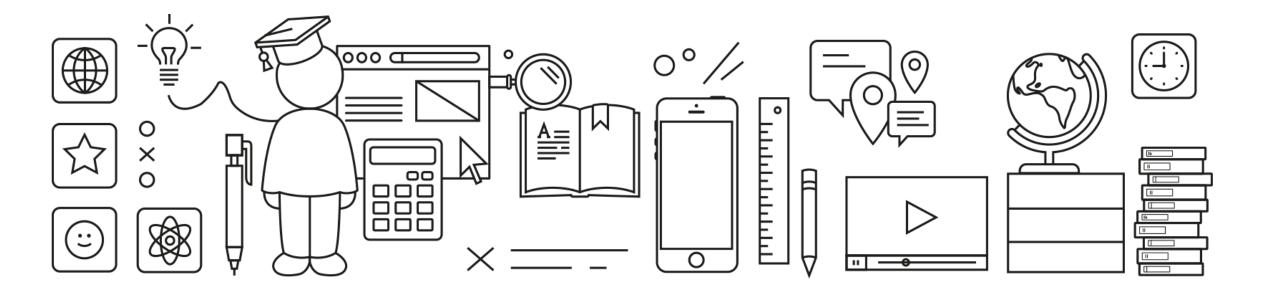
SSO in Backoffice

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Exercise

Single Sign-On in Backoffice

- Backoffice can be used in conjunction with the samlsinglesignon extension.
- This enables SAP Commerce Cloud to connect with an External Identity Provider (IDP)
- At user login, the samlsinglesignon extension creates a new User in the system with username/name provided by the IDP
- After authenticating the user with the IDP, sam1singlesignon creates a rememberme cookie that Backoffice consumes to authenticate the SSO user
- backofficeLoginDisabled=false allows newly created users to login to Backoffice
- By default, new users are added to the backofficeuser group



HMC Migrator

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HMC Migrator Exercise

Migration Tools – (Migrating legacy cockpits into Backoffice)

HMC Config Migrator (only up to version 6.6)

Assists in migration of HMC settings, visible as a new perspective in Backoffice

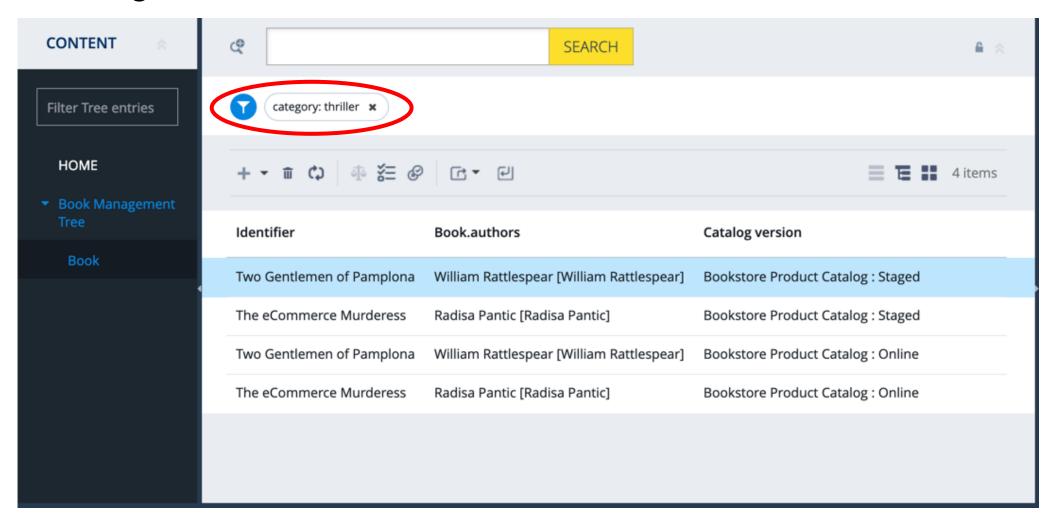
Cockpit Migrator (up version 6.4)

- Facilitates migration of the existing Product Cockpit configuration to Backoffice Product Cockpit
 Notes:
- Download links to both Backoffice extensions are provided in their respective help.hybris.com documents



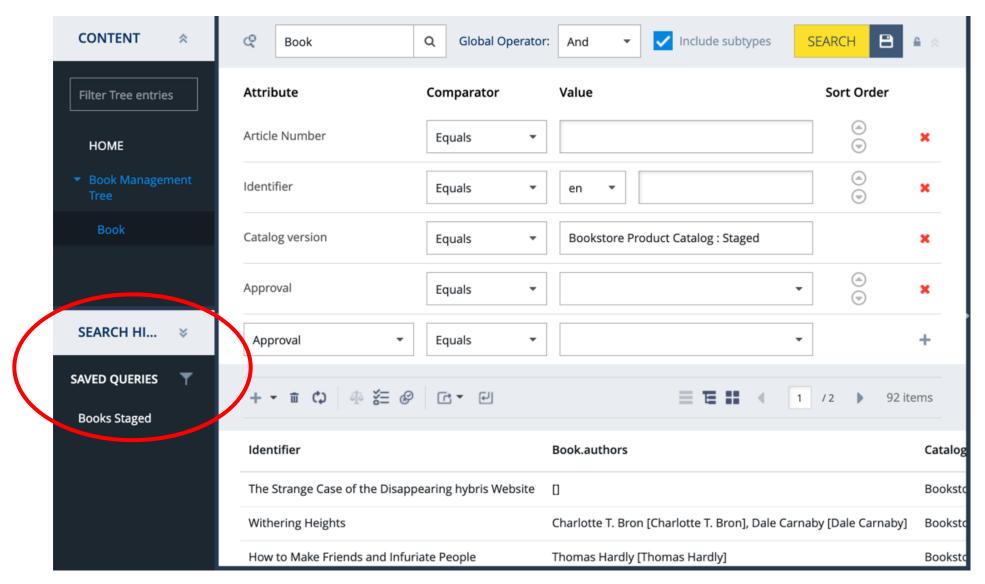
Exercise 10 – Enhance your Cockpit

1. Configure Backoffice to use Solr



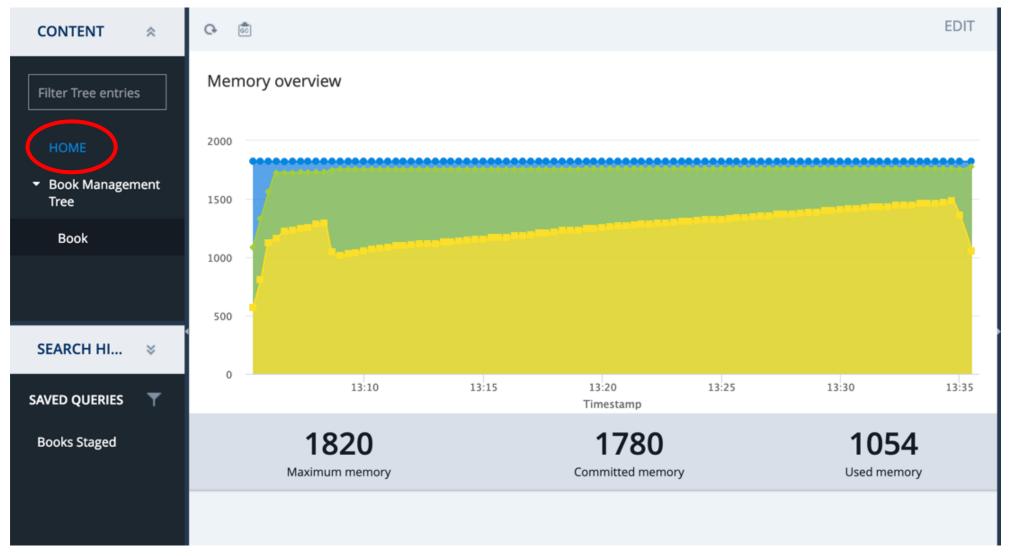
Exercise 10 – Enhance your Cockpit

2. Enable Saved Queries



Exercise 10 – Enhance your Cockpit

3. Add a Dashboard



Thank you.

