

Defining Navigation at Run Time

The goal of this module is to teach you about functionality introduced in Oracle WebCenter 11g R1 (11.1.1.4). The product itself is rebranded as Oracle WebCenter Portal in release 11.1.1.6. Although the 11.1.1.4 UI still uses the older terminology, this module introduces the new terminology wherever possible.

For more information, visit [Oracle WebCenter Portal](#)* on OTN.

*<http://www.oracle.com/technetwork/middleware/webcenter/portal/overview/index.html>

Objectives

After completing this module, you should be able to:

- Describe the difference between the navigation model and navigation visualization
- Create a navigation model
- Add a content item, content query, pages query, and other elements to your navigation model
- Nest navigation models
- List the prebuilt navigation task flows
- Edit a page template and add and configure a navigation task flow to render navigation in your portal

Agenda

- Introduction
- Creating the Navigation Model
- Defining Navigation Resources
- Rendering Navigation in Your Portal

Introduction to WebCenter Portal Navigation

nav-i-ga-tion: the process or activity of accurately ascertaining one's position and planning and following a route

In a WebCenter Portal application:

- Navigation *model* defines the content, structure, and metadata.
- Navigation *visualization* determines how the navigation appears in the portal.

You can define and manage navigation
at design time or at run time.

Agenda

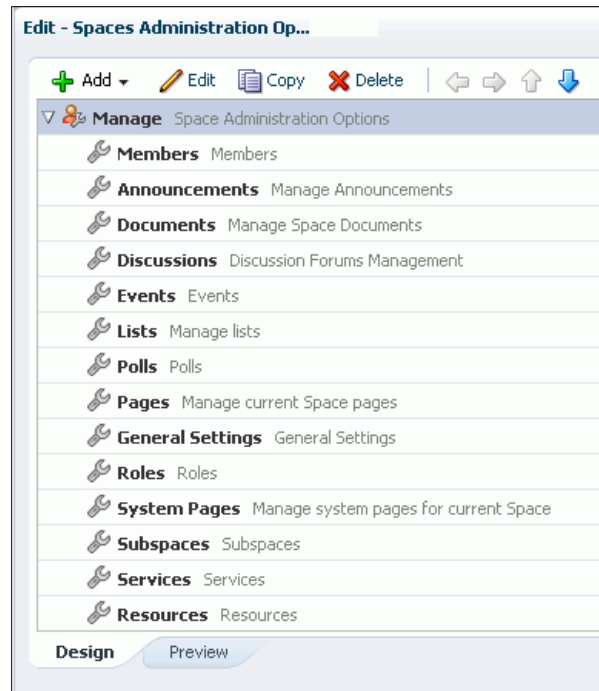
- Introduction
- **Creating the Navigation Model**
- Defining Navigation Resources
- Rendering Navigation in Your Portal

Navigation Model

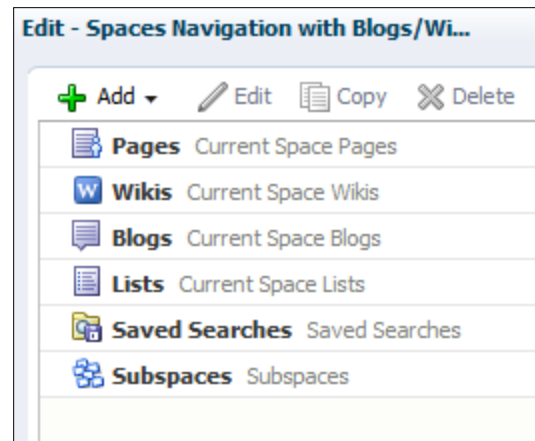
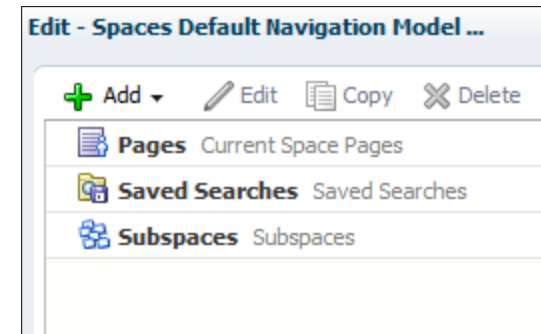
- Defines the content and structure of the navigation. Navigation elements include:
 - Spaces
 - Pages
 - Content
 - Other navigation models
 - Portlets
 - Task flows
 - External applications
 - External links
- Elements are automatically filtered based on security.
- A navigation model can be scoped for the entire application or at the space level.

Prebuilt Navigation Models

Spaces Administration Options



Spaces Default Navigation Model



Spaces
Navigation with
Blogs/Wikis/Lists
Submenus

Creating a Navigation Model

1. Navigate to the Resources page of the application or the space in which you want to create the navigation model.
2. In the Structure pane, select Navigations.
3. Select Create on the menu bar.
4. Enter a name for the navigation model.
5. Optionally, enter a description.
6. In the Copy From list, select an existing navigation model to use as a starting point.

Agenda

- Introduction
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- **Defining Navigation Resources**
- Rendering Navigation in Your Portal

Editing the Navigation Model: Which Resources Do I Include?

The image shows a screenshot of a navigation model editor interface. At the top, there are two buttons: a green plus sign followed by 'Add' and a pencil icon followed by 'Edit'. Below these buttons is a list of resource types, each with a small icon to its left. The resources are: 'Content Item' (document icon), 'Content Query' (document with magnifying glass icon), 'Link' (chain link icon), 'Pages Query' (document with magnifying glass icon), 'Subspaces Query' (document with magnifying glass and subspaces icon), 'Navigation Reference' (document with magnifying glass and cursor icon), 'Folder' (yellow folder icon), and 'Separator' (horizontal line icon). Eight yellow callout boxes with black borders point to specific resources and provide instructions on how to use them.

- Include all documents that match specific search criteria.
- Add a list of pages to your navigation model.
- Nest a navigation model within this one.
- Use separators to divide the navigation model into distinct groupings of navigation items.
- Add a document or content folder.
- Add individual resources, such as a spaces page, portlet, task flow, external application, or web page.
- Include a list of subspaces.
- Organize navigation items by using a folder.

Defining the Navigation Item

Each type of navigation element has different properties associated with it. The Name, Description, and Visible properties are common to all resources.

The screenshot shows the 'Edit Navigation Item - Link' dialog box with the 'Target' tab selected. The 'Target' tab is highlighted with a red box. The dialog contains the following fields:

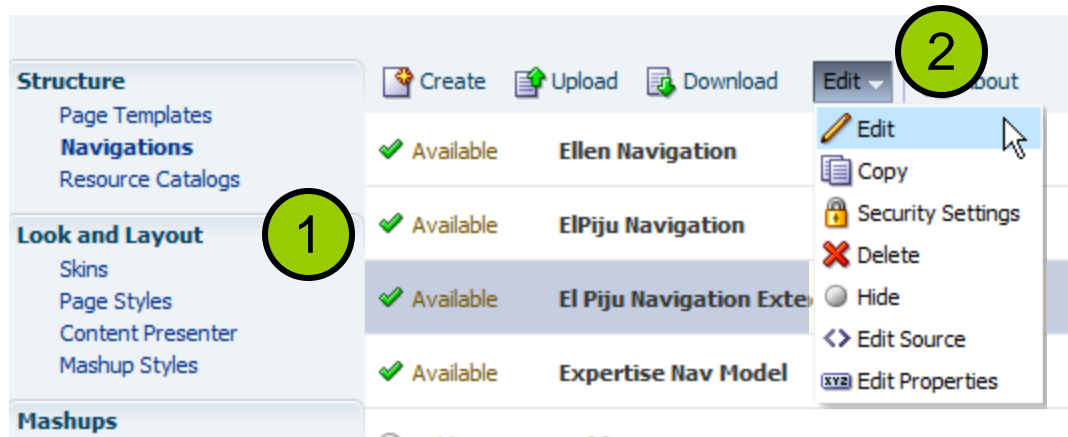
- * Name: Link
- Description: (empty)
- Visible:
- Path: (empty)
- Page Template: <No Selection>

The screenshot shows the 'Edit Navigation Item - Link' dialog box with the 'Options' tab selected. The 'Options' tab is highlighted with a red box. The dialog contains the following fields:

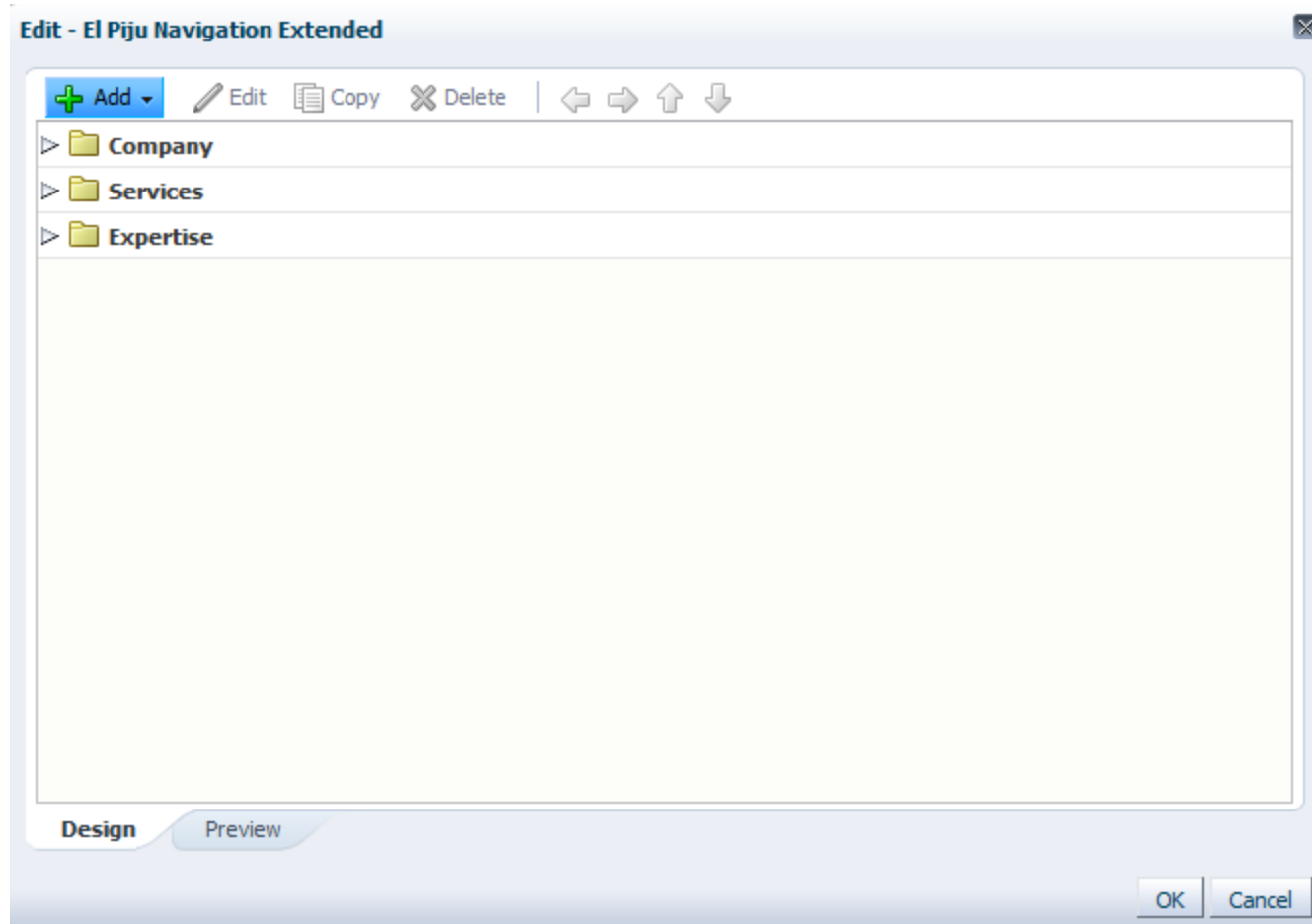
- Access Key: (empty)
- Icon URI: /adf/webcenter/link_qualifier.png
- Search Keywords: (empty)
- Tool Tip: (empty)
- External ID: (empty)
- Open Link in: <Default>
- Redirect:

Specify additional display options.

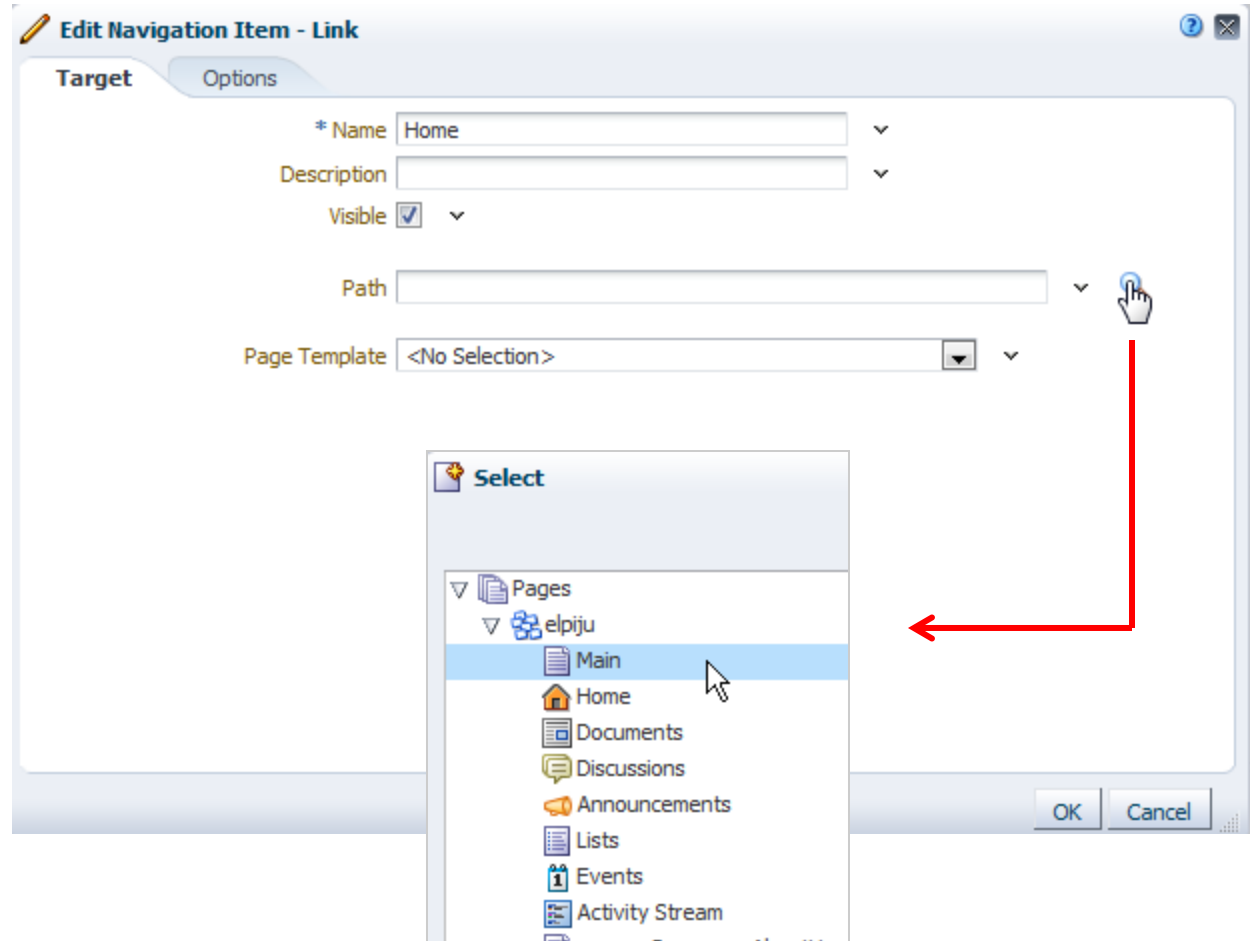
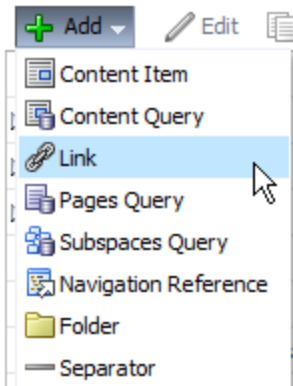
Editing the Navigation Model



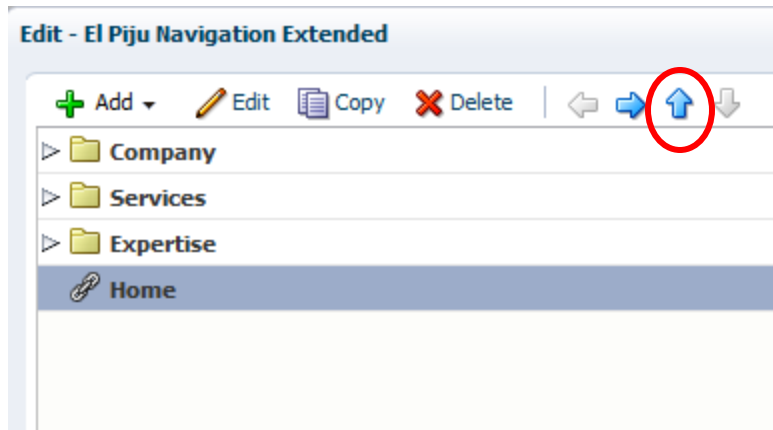
Editing the Navigation Model (continued)



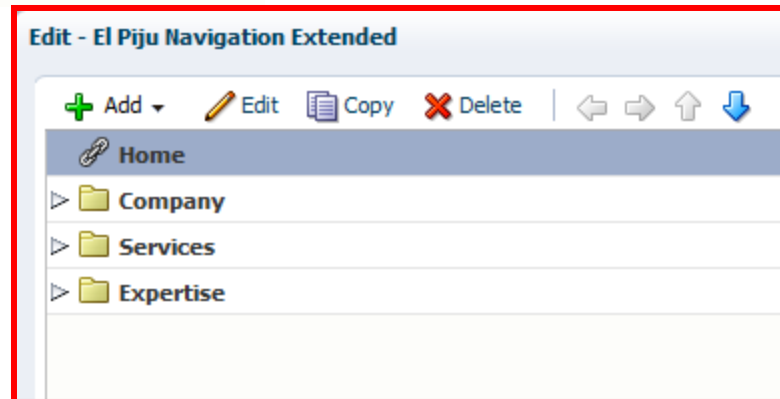
Adding a Link



Adding a Link (continued)



Use the arrows to move the select item within the navigation model.



Adding a Link (continued)



Home

Company

Services

Expertise



Welcome

El Piju is your company for environmentally sensitive design and expert guidance for locating architects, and engineers help you make your natural building vision a reality.

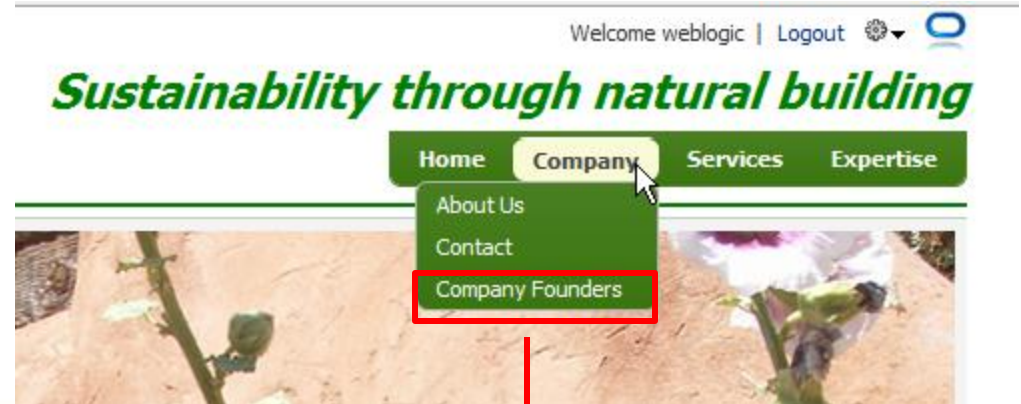
We promote sustainability through the use of minimally processed, plentiful, and renewable environments.

Creating a Content-Driven Navigation Model

If your portal is content-driven, consider these resources when creating your navigation model:

- **Content Item**: to include a specific document or folder from the content server
- **Content Query**: to include a dynamic folder in your navigation model that contains links to all documents that match your criteria

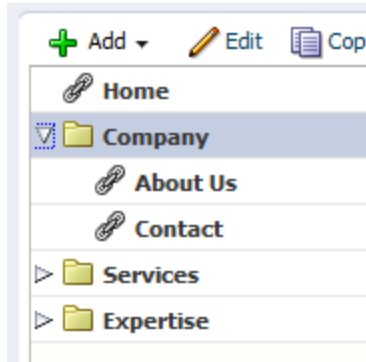
Content Item: Example



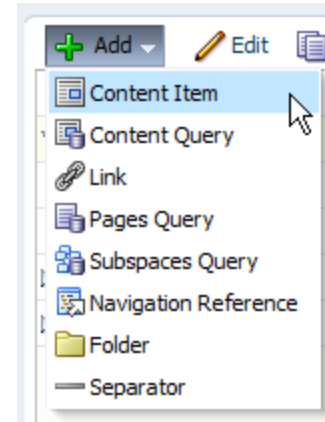
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Adding a Content Item

1



2



3

Edit Navigation Item - Content Item

Target Options

* Name ▾

Description

Visible

Path ▾

Content Presenter Template <No Selection> ▾ ▾

Page Template <No Selection> ▾ ▾

Access EL editor by clicking this edit icon.

Adding a Content Item (continued)

4

5

6

Choose a Content Presenter Template

Content Presenter Template

Page Template

Newly added content item

Select Document

Search [] Advanced

elpiju

Site

Leadership

AlexisGeorge.jpg

CarloCesare.jpg

ChrisAron.jpg

ElPijuFounders.jpg

Leadership.html

ThomasCook.jpg

News

banner-pics

main-pg-pics

right-side-pics

Select Cancel

Edit Navigation Item - Content Item

Target Options

Name Company Founders

Description

Visible [x]

Path content://UCM/WCSpaces/elpiju/Site/Le...

<No Selection>

<No Selection>

Default Document Details View

Default List Item View

Default List Item View for Folders

Default View

Page Template

<No Selection>

<No Selection>

Acme Co Page Template

El Piju Page Template

Fusion Side Navigation

Fusion Top Navigation

Solution: El Piju Page Template

WebCenter Public-Pages Template

WebCenter Spaces Side Navigation

WebCenter Spaces Top Navigation

Edit - Ellen Navigation

+ Add Edit Copy Delete

Home

Company

About Us

Contact

Company Founders

Services

Expertise

About Content Queries

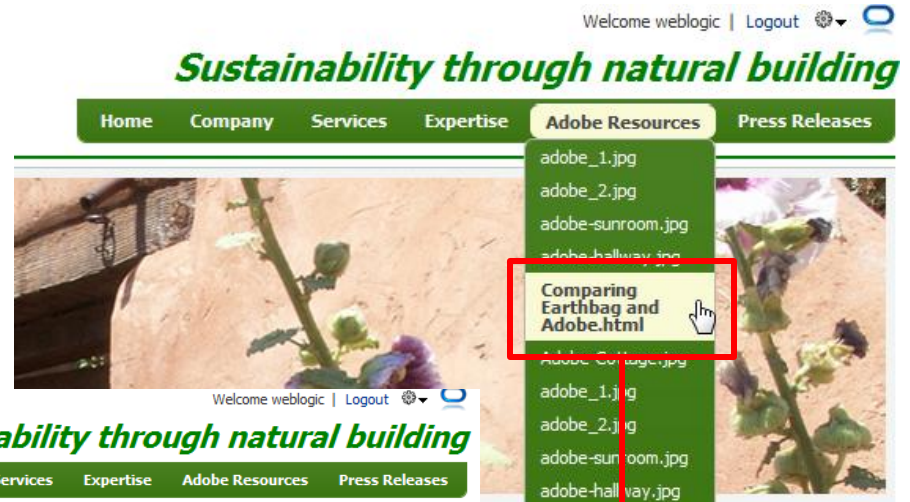
A Content Query is a CMIS (Content Management Interoperability Service) standard query.

- Language similar to SQL
- Can reference metadata
- May be case-sensitive

For more information about the CMIS standard and the query language, see *Oracle® Fusion Middleware Content Management REST Service Developer's Guide 11g Release 1*.

Content Query: Example 1

Query returns all documents with 'adobe' in the file name.



Sustainability through natural building

Adobe Resources

- adobe_1.jpg
- adobe_2.jpg
- adobe-sunroom.jpg
- adobe-hallway.jpg
- Comparing Earthbag and Adobe.html
- Adobe-Cottage.jpg
- adobe_1.jpg
- adobe_2.jpg
- adobe-sunroom.jpg
- adobe-hallway.jpg

Comparing Earthbag and Adobe

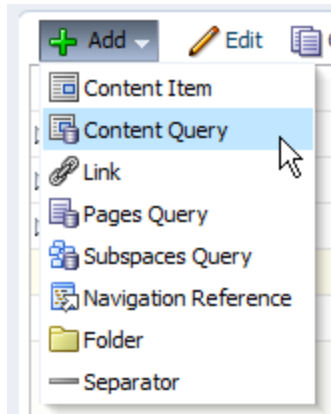
You can still see adobe ruins scattered across the southwest. Even though the roofs have long since rotted away, the walls are still standing after decades or even 100 years or more of neglect. Clearly, adobe is pretty tough stuff, in part because clay platelets closely align themselves and bond together.

It's fairly straightforward to obtain engineered plans and code approval for adobe buildings, if you can afford it, since this type of construction has been thoroughly tested, and because adobe construction is so widespread.

Earthbag building currently lacks the same degree of testing and ease of code approval, yet I'm convinced, certain as one can be, that earthbag is stronger than adobe. For one, the soil is tamped, not just poured. This helps create a denser, stronger rammed wall that history has shown can last for hundreds or thousands of years. Plus, there's the added strength of polv baas and barbed wire. which add significant tensile strength. The barbs are embedded

Defining the Content Query

Example 1



Edit Navigation Item - Content Query - Adobe Resources

Target Options

* Name: Adobe Resources

Description:

Visible:

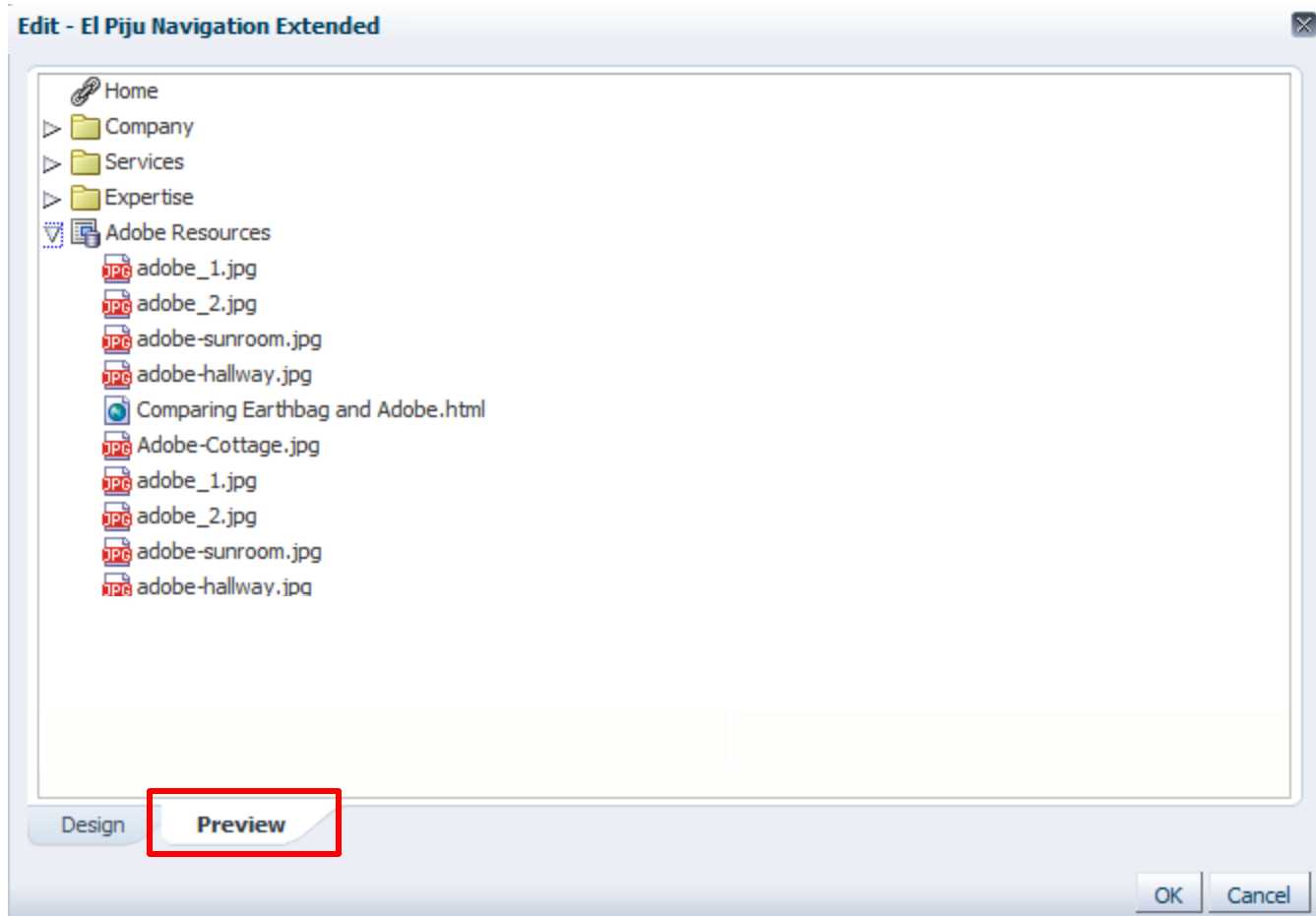
Query String: `select * from cmis:document where cmis:name LIKE '%adobe%'`

Hide Top-Level Folder:

OK Cancel

Previewing Query Results

Example 1



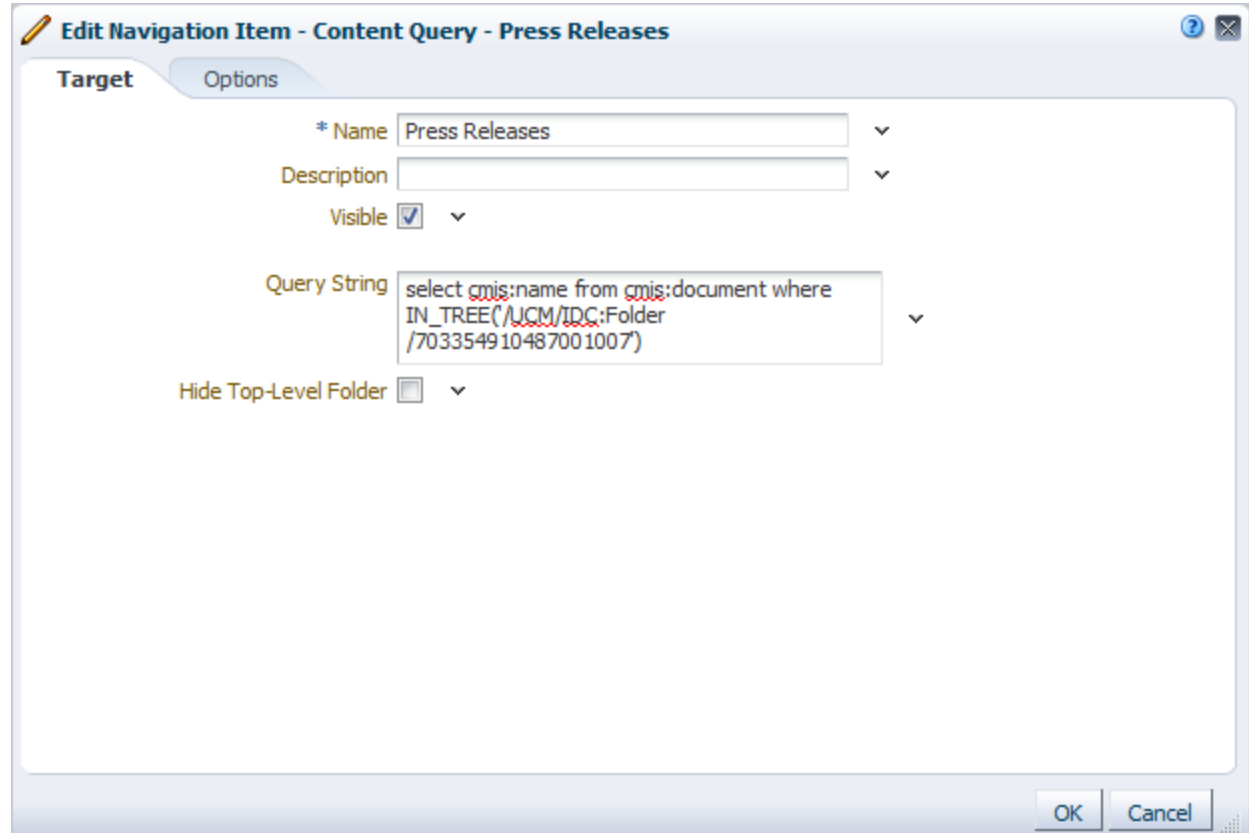
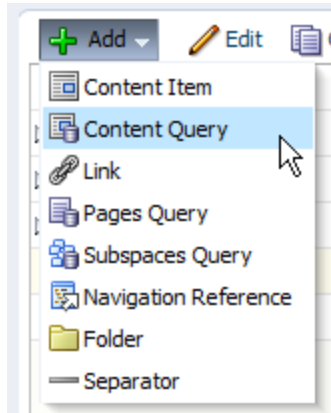
Content Query: Example 2

Query returns all documents in a specific folder.

The image shows a screenshot of the El Piju website. At the top right, it says "Welcome weblog". The main header features the slogan "Sustainability through nature" in green. Below this is a navigation menu with items: Home, Company, Services, Expertise, Adobe Resources, and Press Releases. A dropdown menu is open under "Press Releases", listing "Emergency Shelters", "Zoo Concessions", and "El Piju Breaks Ground". A red box highlights the "El Piju Breaks Ground" link, with a red arrow pointing to the main content area. The main content area has a "Press Releases" header and a sidebar with the same three categories. The main article is titled "El Piju Breaks Ground on Hutton Community Center" and contains text about a groundbreaking ceremony on August 11, 2010, in Camarillo, CA. The article describes the 60,000 square foot Hutton Community Center and its features, including recreational and cultural activities. It also mentions the use of 3D virtual construction technology called Building Information Modeling (BIM) to enhance construction efficiency.

Defining the Content Query

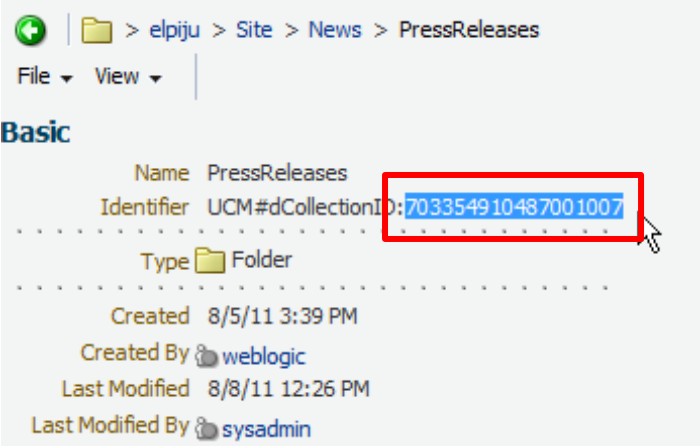
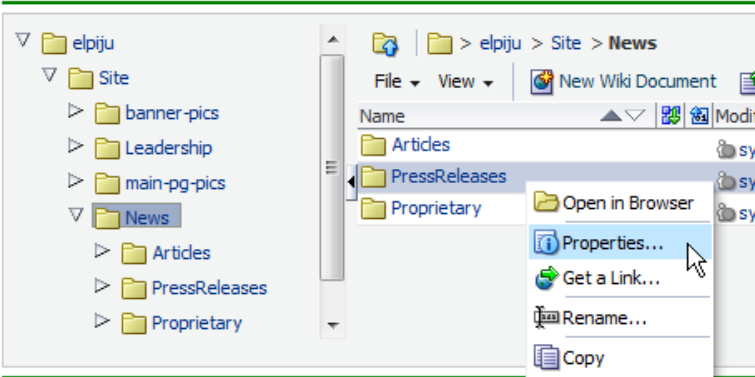
Example 2



Defining the Content Query

Example 2 (continued)

Access the folder properties to obtain the unique identifier for the folder.

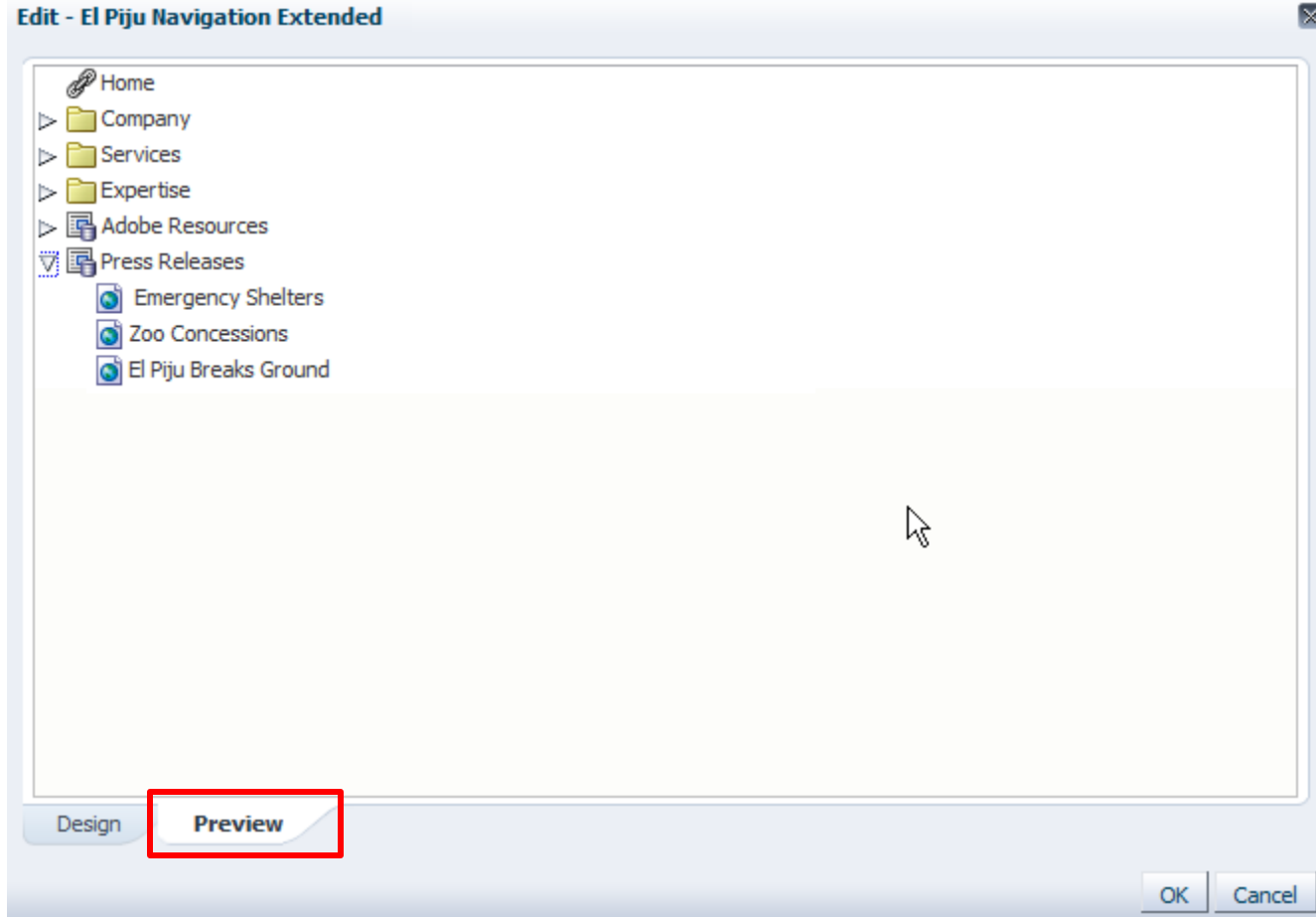


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Basic	
Name	PressReleases
Identifier	UCM#dCollectionID:703354910487001007
Type	Folder
Created	8/5/11 3:39 PM
Created By	weblogic
Last Modified	8/8/11 12:26 PM
Last Modified By	sysadmin

Previewing Query Results

Example 2



Adding a List of Pages to the Navigation Model

Resources Press Releases Home Space Pages

- Activities
- Documents
- Spaces
- My Profile
- Hacker News

All pages in the Home space

ity through natural building

Releases Home Space Pages Moderator Query

- Main
- Services_Preconstructi
- Services_Construction
- Services_DesignAndBui
- Company_AboutUs
- Company_Contact
- Expertise_Adobe
- Expertise_Cob
- Expertise_Cordwood

All pages in a space available only to users with the role Moderator

Setting Pages Query Parameters

Edit Navigation Item - Pages Query - Home Space Pages

Target | Options

* Name: Home Space Pages

Description:

Visible:

Query Parameters

Find Pages in: Home Space

Space

Path

Page Style: <No Selection>

Excluded Page Styles:

Visibility: <No Selection>

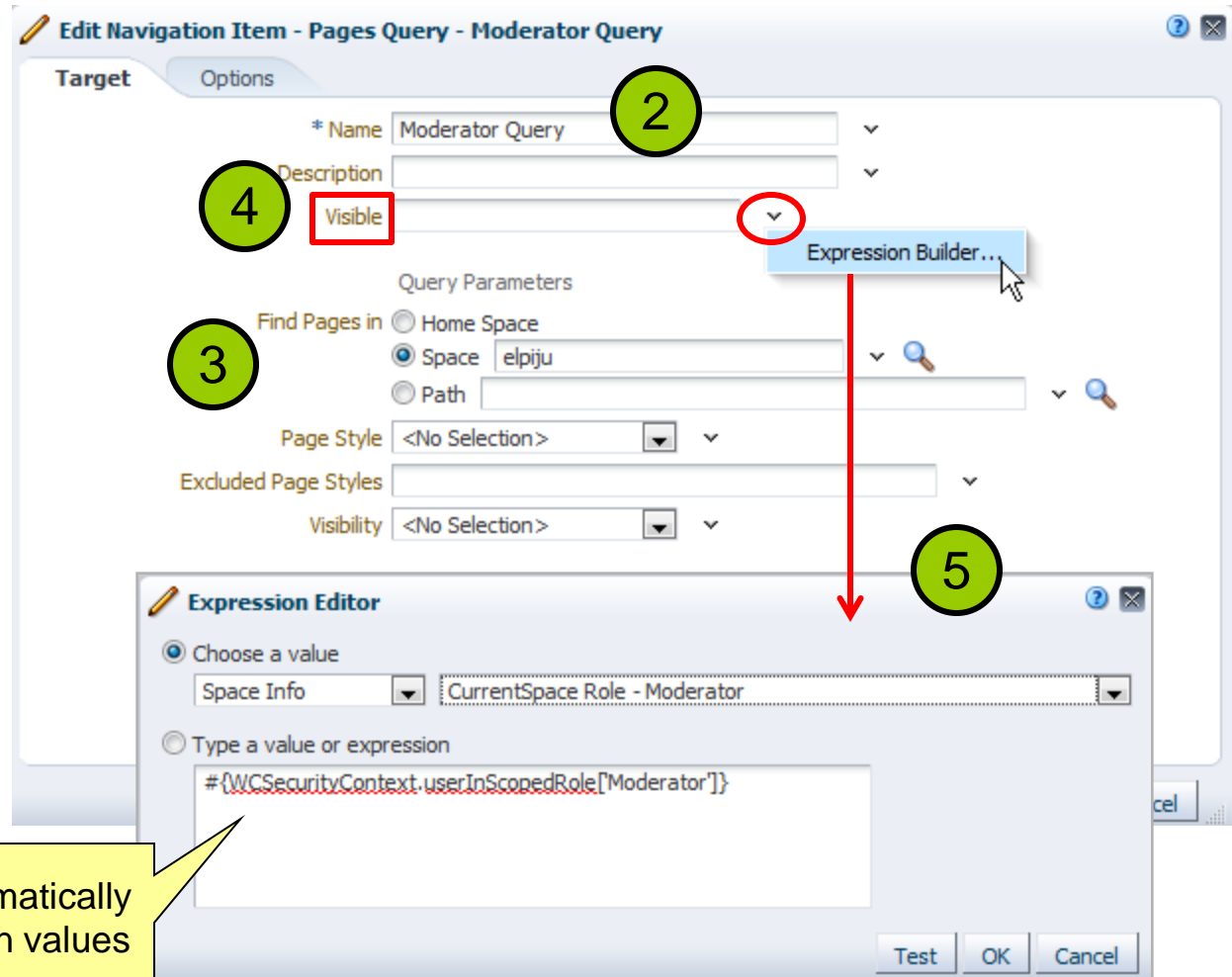
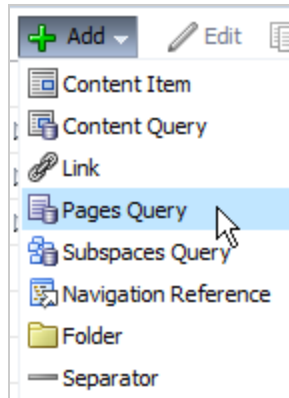
Hide Top-Level Folder:

Page Template: <No Selection>

OK Cancel

Pages Query: Example

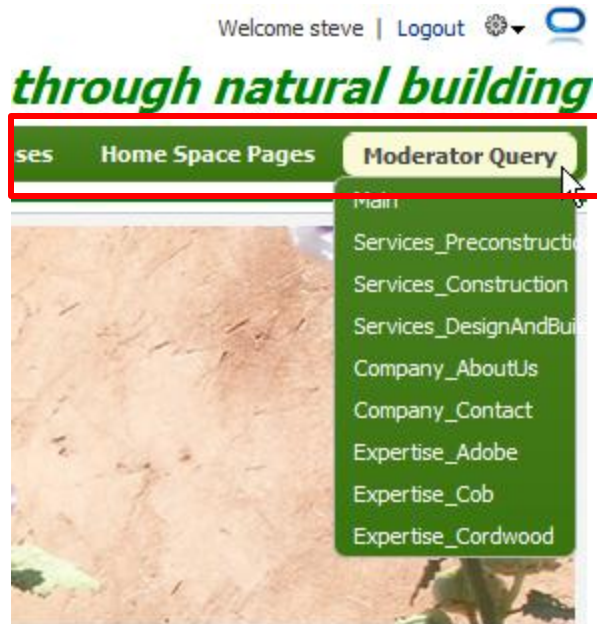
1



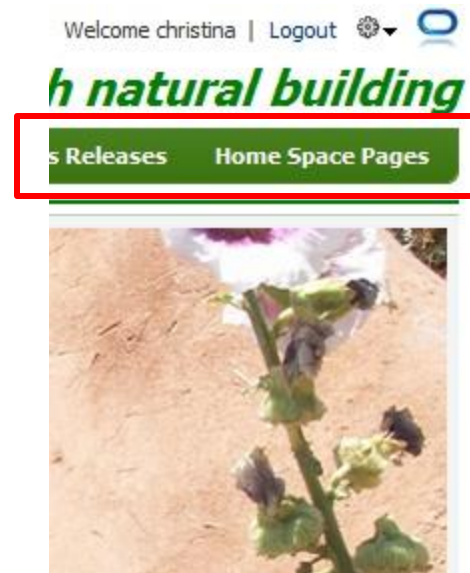
Expression is automatically generated based on values chosen.

Testing the Pages Query Example

User Steve has the role of Moderator.



User Christina has the role of Participant.



Subspaces Query

You can include a list of all the subspaces of a particular space in your navigation model.

The screenshot shows the 'Edit Navigation Item - Subspaces Query' dialog box. The 'Target' tab is selected, and the 'Options' section contains the following fields:

- * Name:** Subspaces Query (dropdown menu)
- Description:** (text field)
- Visible:** (checkbox)
- Space:** (text field with a search icon)
- Display Subspace Pages:** (checkbox)
- Hide Top-Level Folder:** (checkbox)
- Advanced Query:** NO_OPTION (dropdown menu)

Callouts provide the following explanations:

- Select to list the subspaces pages in the nav model:** Points to the 'Display Subspace Pages' checkbox.
- Display the subspaces directly in the navigation:** Points to the 'Hide Top-Level Folder' checkbox.
- Name of the space for which you want to display subspaces:** Points to the 'Space' text field.
- EL expression to further refine the list of subspaces included in the navigation model:** Points to the 'Advanced Query' dropdown menu.

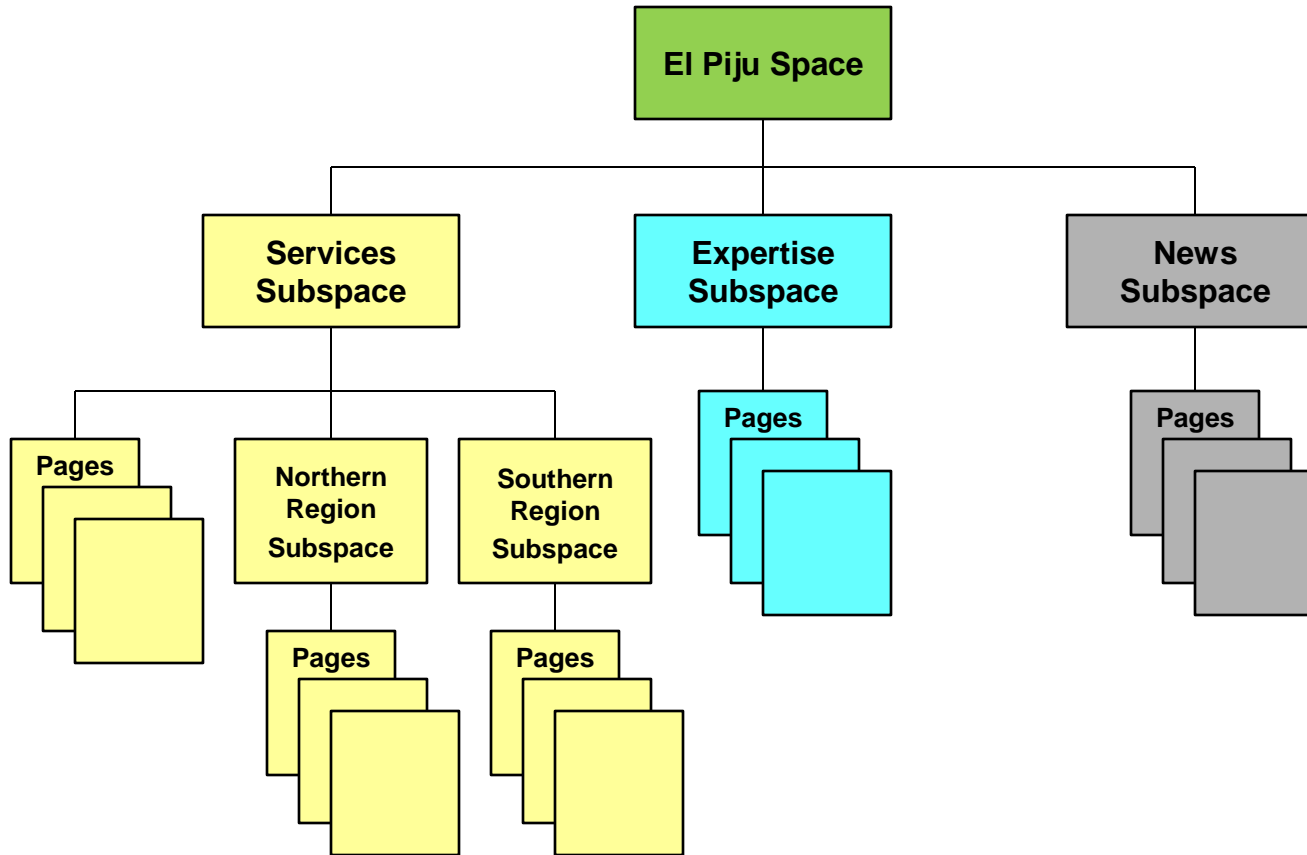
Buttons for 'OK' and 'Cancel' are located at the bottom right of the dialog.

Nesting Navigation Models

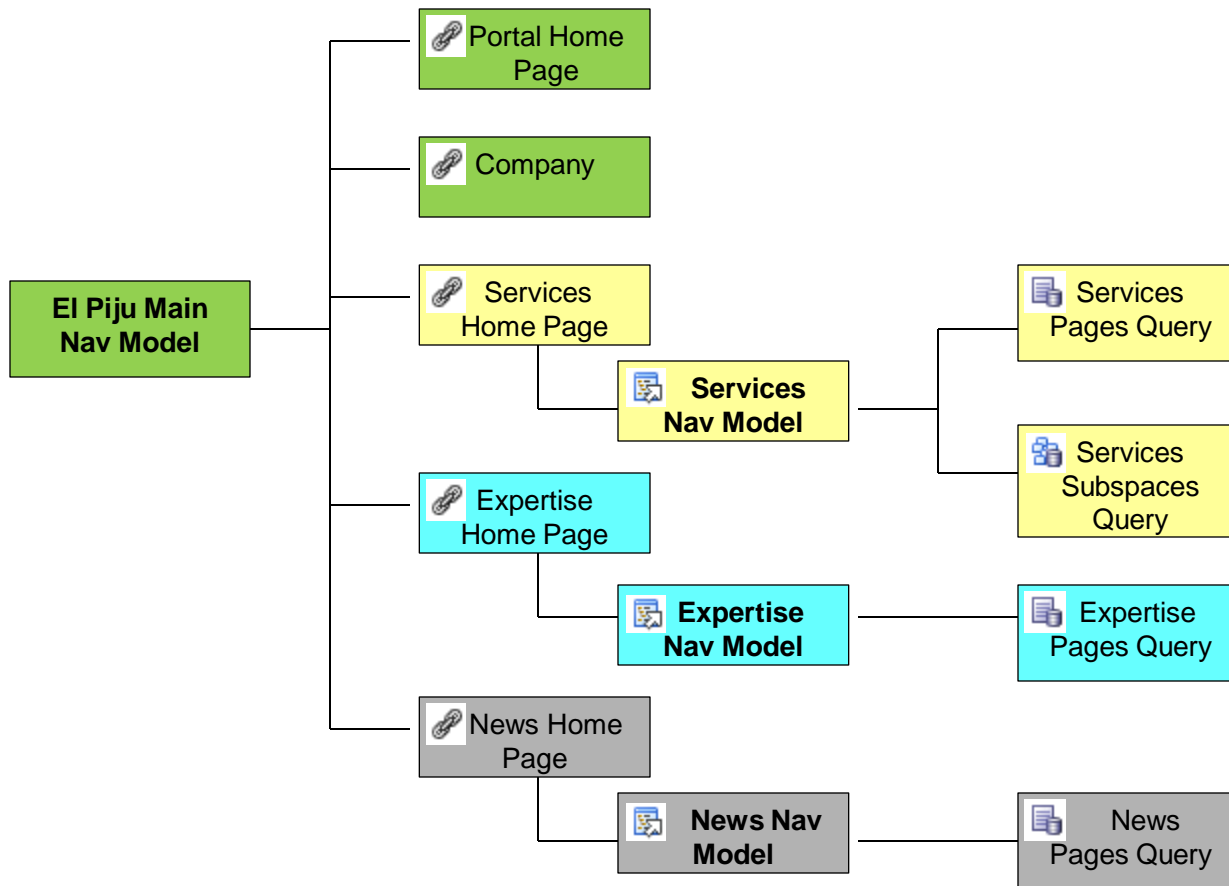
Embed a navigation model within a navigation model:

- Break a complex navigation model into several separate modules and nest them within a single encompassing navigation model.
- Delegate development to
 - different users.
 - control access to different parts of the navigation.

Planning Navigation



Nesting Navigation Models



Adding a Navigation Reference

The screenshot shows the 'Edit Navigation Item - Navigation Reference' dialog box. On the left, a menu lists various content types: Content Item, Content Query, Link, Pages Query, Subspaces Query, **Navigation Reference**, Folder, and Separator. The 'Navigation Reference' option is highlighted. The main dialog has two tabs: 'Target' and 'Options'. Under 'Options', there are fields for '* Name' (set to 'Services Navigation Reference'), 'Description', and a checked 'Visible' checkbox. The '* Include Navigation' dropdown is open, showing a list of navigation models: '<No Selection>', '<No Selection>', 'ElPiju Navigation', 'Expertise Nav Model', 'Hidden Pages', 'News Nav Model', **Services Nav Model**, 'Spaces Administration Options', 'Spaces Default Navigation Model', and 'Spaces Navigation with Blogs/Wikis/Lists Submenus'. A yellow callout box says 'Select the navigation model that you want to reference.' A white callout box says 'Choose a Navigation to include as a reference'. The 'OK' and 'Cancel' buttons are at the bottom right.

Agenda

- Introduction
- Creating the Navigation Model
- Defining Navigation Resources
- Rendering Navigation in Your Portal

Navigation Visualization

Navigation visualization is part of the page template.

The image shows a website template for 'el piju design with nature'. The header includes the logo, a tagline 'Sustainability through natural building', and user options like 'Welcome weblogic | Logout'. A main navigation bar contains 'Home', 'Company', 'Services', and 'Expertise'. The 'Services' dropdown menu is open, showing 'Preconstruction', 'Construction', and 'Design & Build'. A secondary navigation bar on the left also lists 'Preconstruction', 'Construction', and 'Design & Build'. A large central box is labeled 'Content Area'. Two yellow callout boxes highlight the 'Global navigation' (the main navigation bar) and 'Additional navigation' (the secondary navigation bar).

el piju design with nature

Welcome weblogic | Logout

Sustainability through natural building

Home Company Services Expertise

Preconstruction
Construction
Design & Build

Services

Preconstruction
Construction
Design & Build

Global navigation




Additional navigation

Content Area

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Rendering Navigation

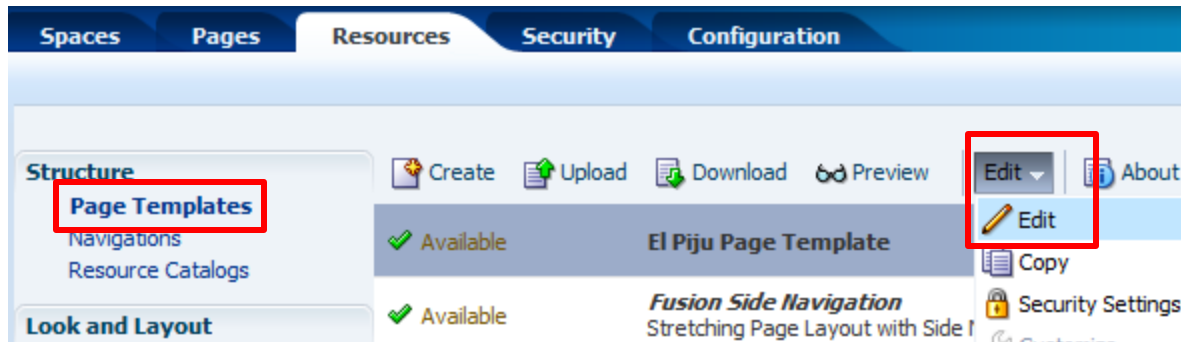
Prebuilt navigation task flows:

- Menu 
- Tree 
- Breadcrumb 

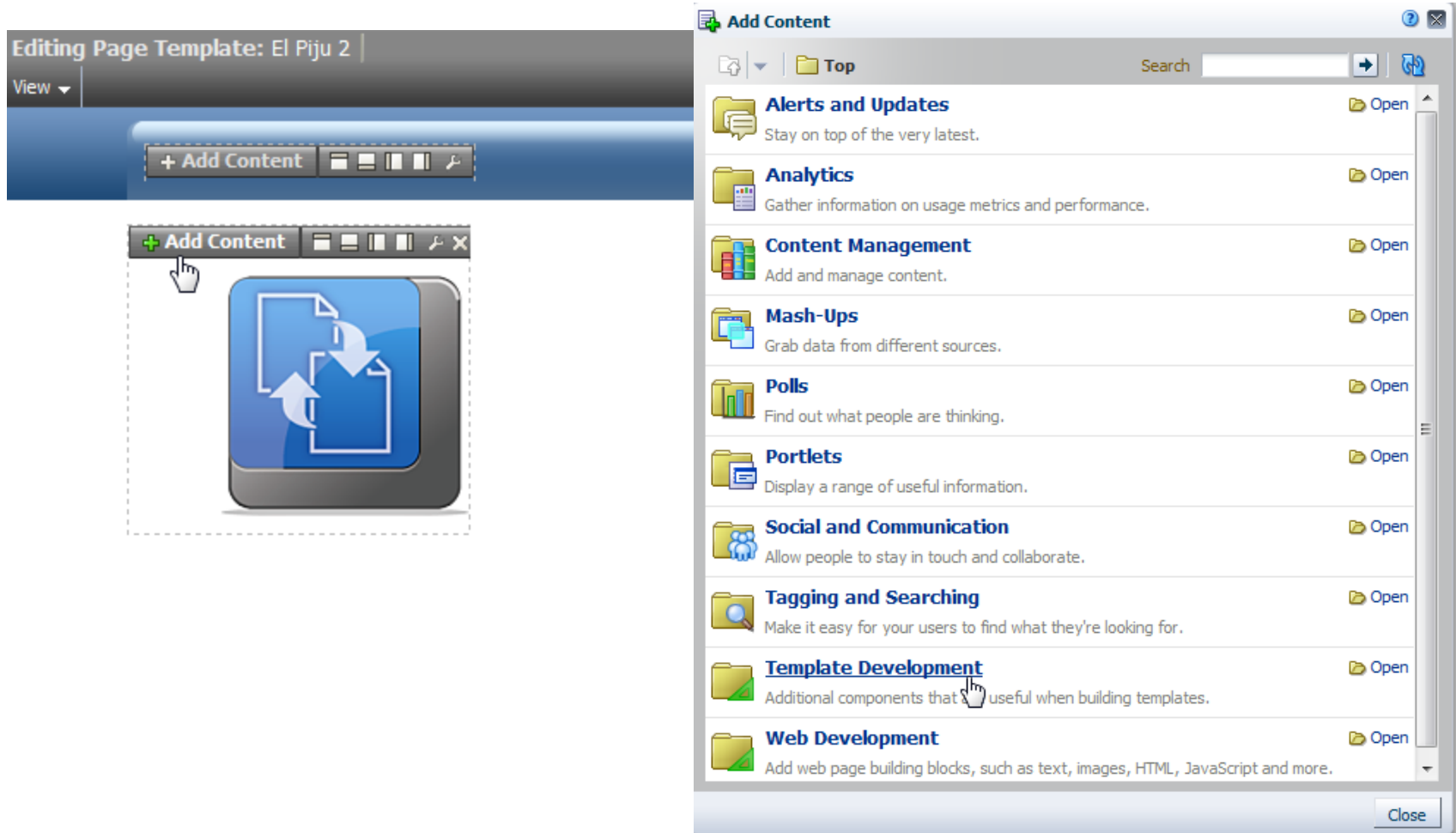
Adding a Navigation Task Flow to a Page Template

1. Edit the page template.
2. Add the desired navigation task flow to the page template.
3. Select the navigation model to use that will drive the content of the navigation.
4. Set navigation task flow properties as desired.

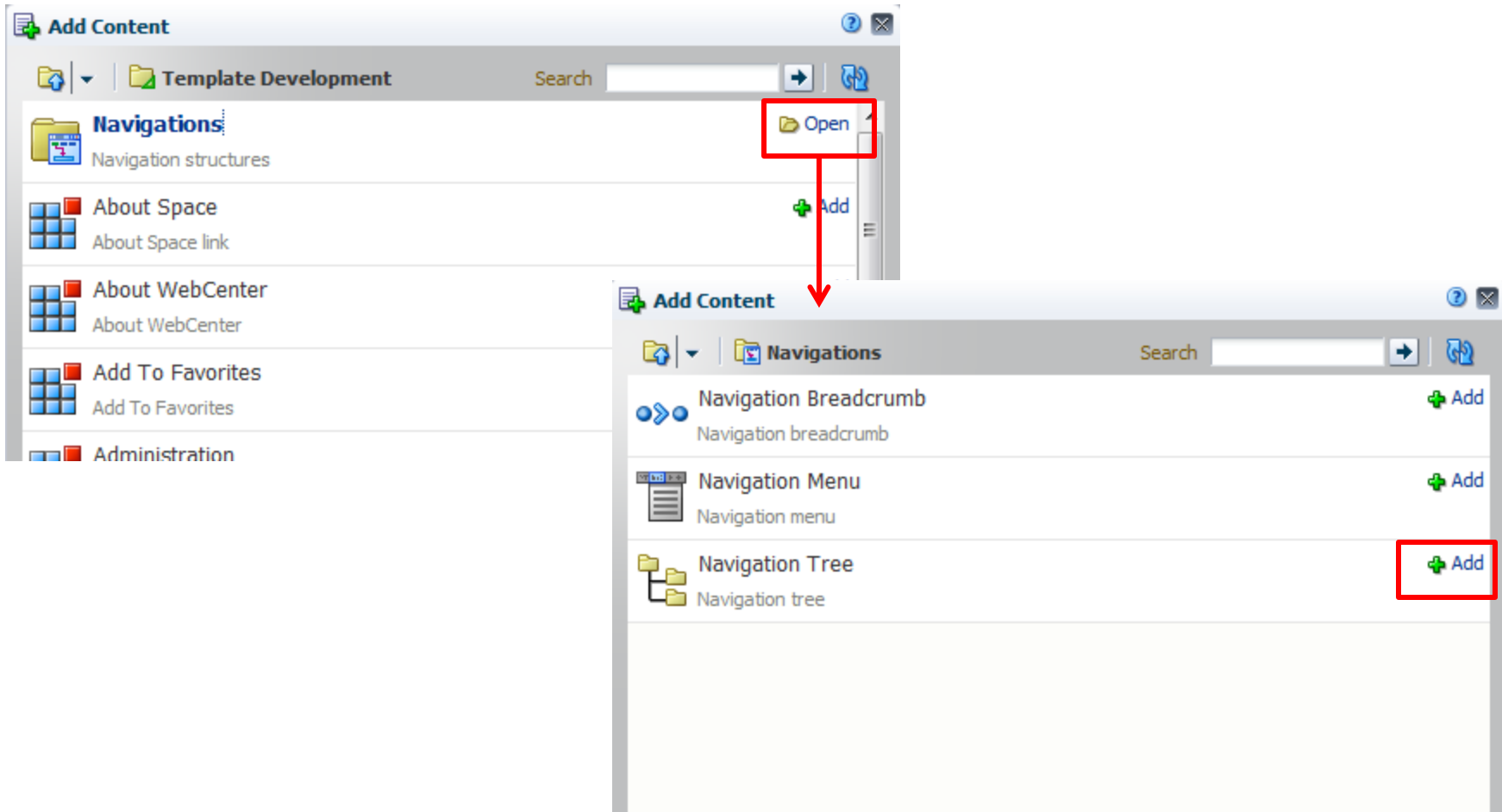
1. Edit the Page Template



2. Add the Navigation Task Flow to the Page Template



2. Add the Navigation Task Flow to the Page Template (continued)



3. Map the Navigation Model to the Task Flow

Click the wrench icon to edit the component properties.

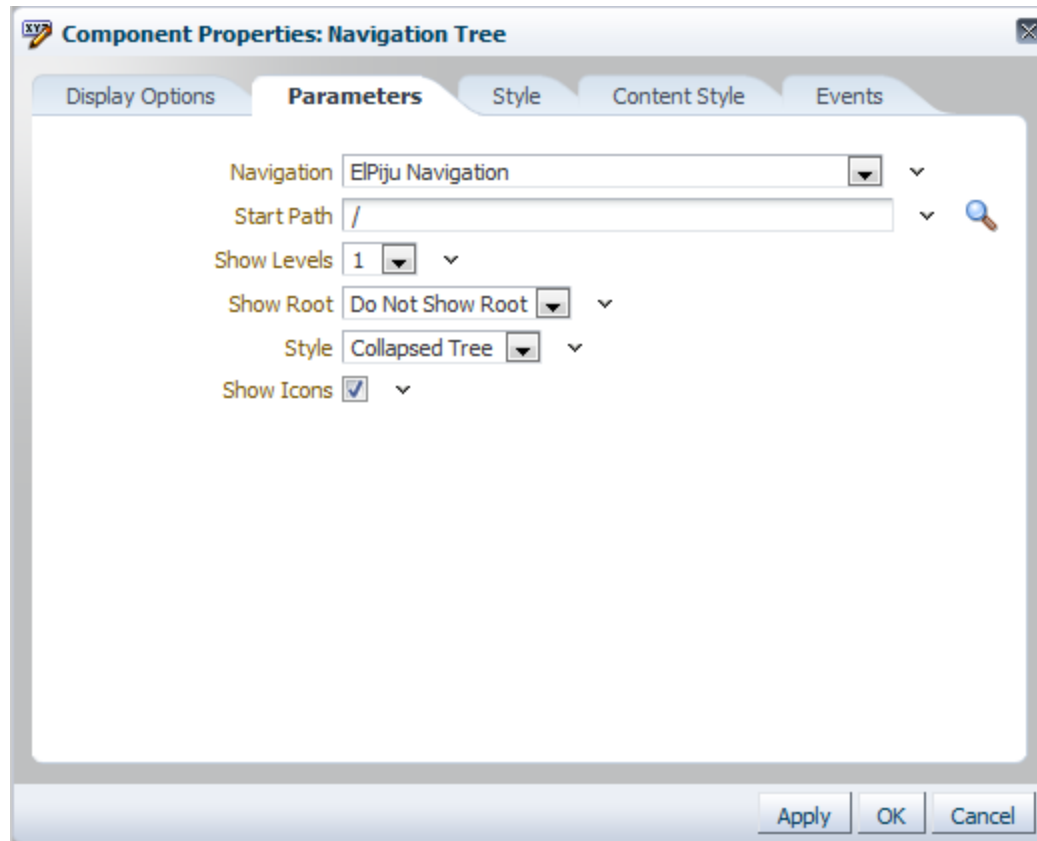
The navigation file that contains the navigation resources for this task flow

Services Nav Model
Ellen Navigation
EPIju Navigation
Expertise Nav Model
News Nav Model
Services Nav Model
Spaces Administration Options
Spaces Default Navigation Model
Spaces Navigation with Blogs/Wikis/Lists Submenus

+ Add Content
Home
Company
Services
Expertise

Apply OK Cancel

4. Set Task Flow Properties as Desired



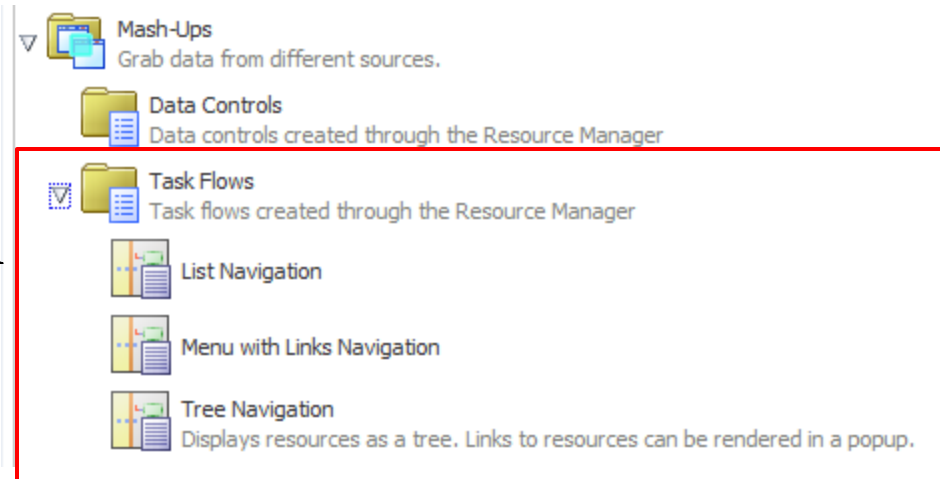
Additional Navigation Task Flows

Download additional navigation task flows from OTN:

<http://www.oracle.com/technetwork/middleware/webcenter/samples-196325.zip>

- List
- Menu with Links
- Tree

The task flows are available in the Resource Catalog:
Mash-Ups > Task Flows.



Summary

In this module, you should have learned how to:

- Describe the difference between the navigation model and navigation visualization
- Create a navigation model
- Add a content item, content query, pages query, and other elements to your navigation model
- Nest navigation models
- List the prebuilt navigation task flows
- Edit a page template and add and configure a navigation task flow to render navigation in your portal

Thank You!