anagramballoons.com Case Study

MINNESOTA KENTICO USER GROUP – 11/15/2017

DAHLIN DEVELOPMENT

Dahlin Development

- Established in 2008
- Kentico Developers, 3 certified
- Over 75 sites built on Kentico
- Partner with other Kentico partners

Anagram Balloons

Anagram leads the world in making balloons fun with consumer-inspired - and inspiring - product development, industry-expanding innovation and strong, value-added partnerships.

We proudly offer many products you'll only find with an Anagram label. Our dedicated-to-the joy employees are focused on creating the best product and the biggest smiles possible.

At Anagram, we strive to create joy, on purpose, every single day.

Brand Video

Goals

• Build the team

Technical

- Environment Setup
- Digital Asset Management (DAM) integration
- Modular Design
 - Widgets
 - Page Types

Team Building

- Parties
 - Curb Crowser (agency)
 - Anagram Balloons (client)
 - Hello Wallace (design/frontend)
 - Dahlin Development (Kentico development)
- Set Expectations
- Agree upon tools
- Use what works

Our Collaboration Toolset

- Skype
- OneNote (internal)
- OneDrive (internal)
- Bitbucket
- invision
- Trello
- Google Sheets
- UberConference
- Slack
- E-mail
- Phone

Communication is Key

- Initial in-person meeting
- Project done all remotely
- Weekly Standups
- Ad-hoc meetings
- Near the end daily standups
- Slack can be nice

Environment Setup

- Anagram development server was behind a VPN.
- •Because of early access issues, we decided to develop outside the VPN and sync content over to the development server.
- •Spun up a database in Azure and imported the site from the development server into the azure database.
- •All development done locally connecting to Azure database.
- •When changes are ready, they were synced to the development server using the Kentico staging module.

Digital Asset Management (DAM) Integration

- •Previously, all products on the site were manually maintained.
- •On the new site, the following pages display data from the DAM:
- •https://anagramballoons.com/
- https://anagramballoons.com/products/
- •<u>https://anagramballoons.com/products/airwalkers/</u> multiple pages per category
- •https://anagramballoons.com/search/?q=batman
- •The DAM returns JSON, which is deserialized into class objects using the Json.Net framework for .Net (https://www.newtonsoft.com/json)
- •All DAM calls use the same model classes and are cached using Kentico caching.

Digital Asset Management (DAM) Integration

- •The product page templates are built using three custom web parts featured products, products, and search results.
- •All three web parts use the same common user control to display the results.
- •Each web part retrieves the product data it needs and then sets the data source on the control.

ProductsList.assets = Asset.GetAssetsByCategoryKey(CurrentDocument.GetStringValue("AdamKey", string.Empty));

•The common user control uses a basic repeater to display the results and a unipager for paging.

- Going through the site, you will notice that many of the pages share the same visual components
- •About page:

do you want to work for a company that strives to create joy every single day?

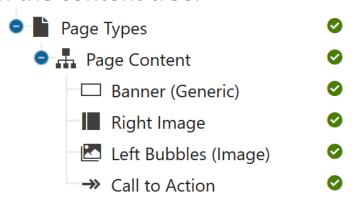
view careers

•Custom Balloons:

let's get started with your custom balloon order

start your quote

On previous projects we achieved modular design by using page types and a hierarchical repeater in the content tree.



For Anagram, Rui Wang (Kentico Consulting) suggested a different approach that uses widgets.

Rui's Demo: https://www.youtube.com/watch?v=voumgLD-R1Y

We converted all of the modular page types into widgets to use the new approach.

Each Widget has two parts.

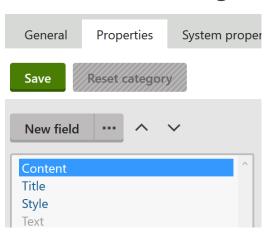
- •Widget input fields
- Container markup

The widget and container work together to render the html output.



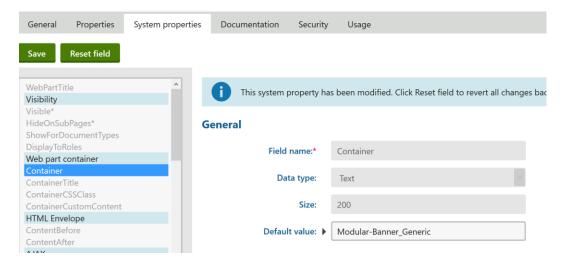
Widget

- Create Widgets in the Widget application of Kentico
- •The easiest way to start is to clone a simple Kentico widget, we used **Static text**.
- •Once the base widget is cloned, add custom properties to the new widget



Widget

- •On the System Properties tab, default the Container to the web part container that will render the widget. This will default the widget to the correct container when adding to a page.
- •Give the container the same name as the widget.



Container

- Create Containers in the Web part containers application of Kentico
- •Give the container the same name as the widget
- •Enter the markup that should be rendered for the widget. Macros can be used.

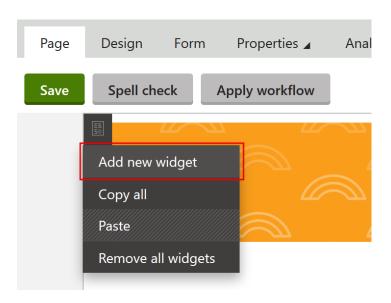


Page Template

- •On the page template that will display widgets, add a web part zone
- •Set the widget zone type to **Customization by page editor**
 - Widget zone type: ▶ None
 - User personalization
 - Customization by page editor
 - Customization by group administrator

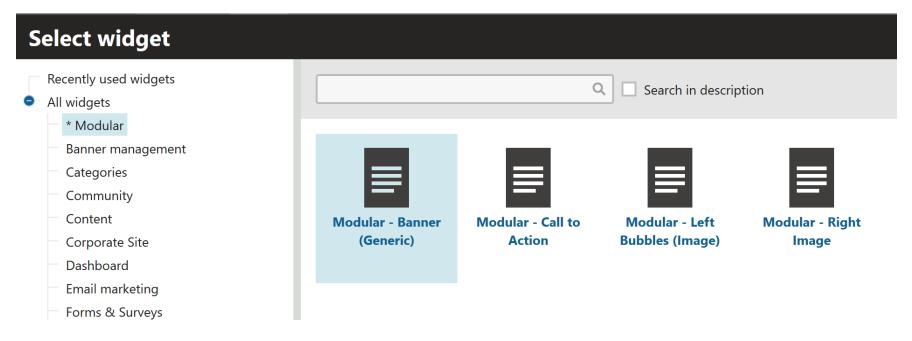
Adding to a Page

•The widgets can now be added on the page tab of any page that is using the page template just created.



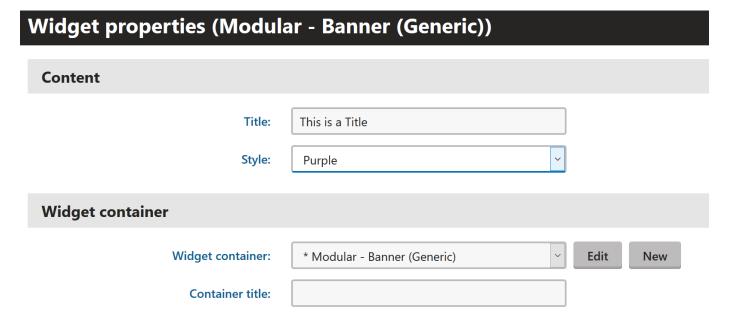
Adding to a Page

•Select the widget to add.



Adding to a Page

Customize the Widget.



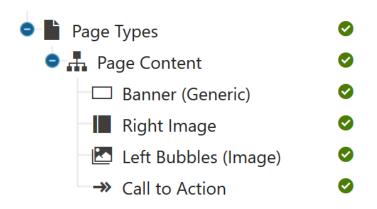
Adding to a Page

•It now displays on the page.

This is a Title

•Creating widgets like this allows the editor to visually build the page through the page tab.

Another approach is to use page types and the content tree instead of widgets.



The modular components of a page are built by adding items to the content tree as children of the current page.

Each page type only has one part.

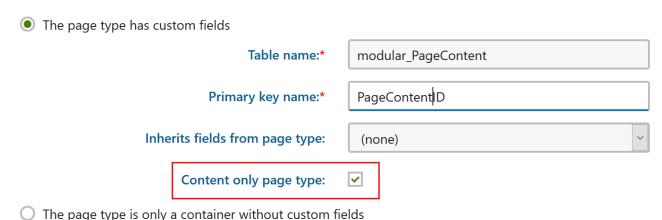
Page Type – input fields and transformation (markup)

The page type's transformation renders the markup.



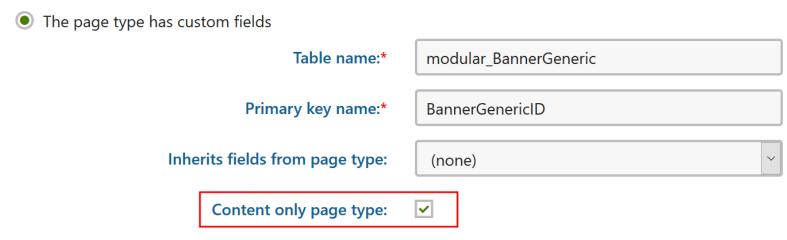
Page Type – Page Content

- Modular page types are created in the Page types application within Kentico
- Create a page type to hold the other modular page types, name it **Page Content**
- Check the **Content only page type** box as these page types will never be pages



Modular Page Type

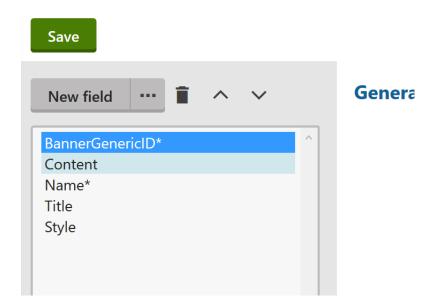
- Now create the modular page types for the page
- Also Check the Content only page type box for these page types



The page type is only a container without custom fields

Modular Page Type

Add fields to the page type



Modular Page Type

•Set the allowed parent page type to the Page Content page type created earlier

Allowed parent page types:

- Page type name
- * Modular Page Content (modular.PageContent)

Page Template

- •On the page template that will display the modular page types, add a web part zone
- •In the zone, add a Hierarchical viewer web part



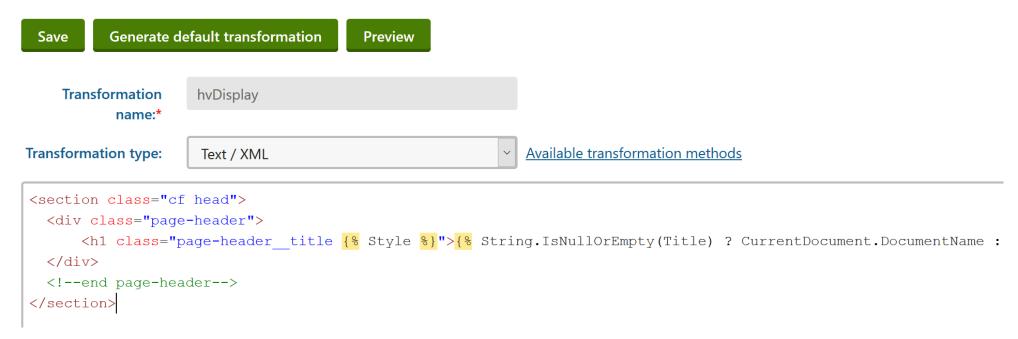
Page Template

- •The path for the viewer should be ./page-content/%, the modular page content container for the page.
- •Create a new hierarchical transformation to render the modular page types, each modular page type will have its own transformation so it can be rendered.

■ <u>Actions</u>	<u>Туре</u>	Page types	<u>Level</u>	<u>Transformation name</u>
≠ ■	Item transformation	modular.BannerGeneric	All	modular.BannerGeneric.hvDisplay
≠ ■	Item transformation	modular.CallToAction	All	modular. Call To Action. hv Display
≠ ■	Item transformation	modular. Left Bubbles Image	All	modular. Left Bubbles Image. hv Display
≠ ■	Item transformation	modular.RightImage	All	modular. Right Image. hv Display

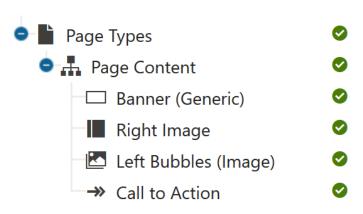
Page Template

•The markup for the transformation is the same as the web part container markup



Adding to a Page

•The modular page type can now be added to a page by adding a Page Content child and then adding the modular page types as children underneath Page Content.



Modular Designs

The rendered output for widgets and page types is identical

Widgets

Widgets _____

This is a right image widget

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Page Types

Page Types

This is a right image page type

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Modular Designs – Discussion

For both approaches we create visual guides to help editors build pages using modular components

Pros and Cons

- •So what are the advantages of one approach over the other?
- •Are there certain situations when one should be used?

Modular Designs – Pros/Cons (Widgets)

Pros

- Can build the page visually on the form tab
- Personalization
- Easy to implement
- Content tree is clean

Cons

- Widgets don't handle parent/child relationships very well
- Using web part containers in this way wasn't what they were intended for

Modular Designs – Pros/Cons (Page Types)

Pros

- Content tree clearly displays what will be displayed on the page
- Handles parent/child relationship well using parent/child scopes
- Easy to implement

Cons

- Content tree is cluttered
- Not as visual as widgets
- Personalization not supported

Questions?

Joel Dahlin | joel@dahlindev.com | 320.281.0605

Jeff Steil | jeff@dahlindev.com | 320.492.9451

Dahlin Development | <u>dahlindevelopment.com</u>

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