Magento 2

as a CMS

Who am I?



Marius Strajeru







Magento addict



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http://magento.stackexchange.com/users/146/marius



https://github.com/tzyganu



https://github.com/UltimateModuleCreator

Summary

- What is Magento (2)?
- Can Magento 2 be a CMS?
- Possible approaches
- Problems of the approaches
- Solutions to the problems
- Example Make Magento a blog
- Q&A









a framework

















a CMS - "open-source content management system for e-commerce web sites" - Wikipedia



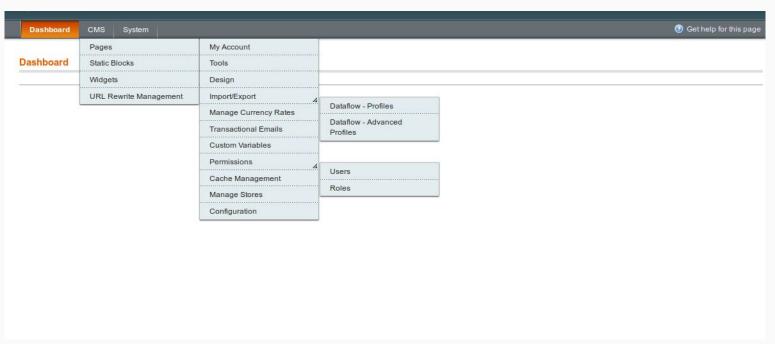




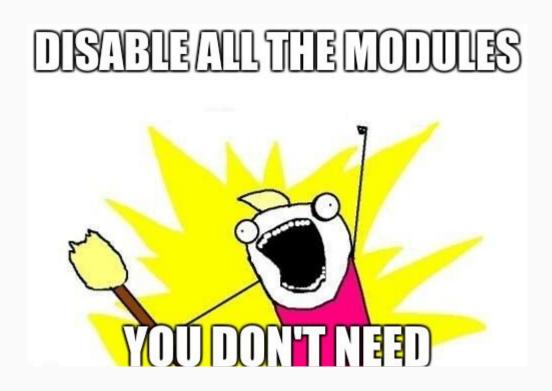
a CMS - "open-source **content management system** for e-commerce web sites"

The idea...is not new

https://github.com/colinmollenhour/magento-lite



The idea...is simple



The idea

- Disable e-commerce modules: Catalog, Checkout, Sales, ...

But...

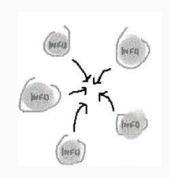
- Troubles because of tight coupling.
- Big fat Mage_Adminhtml
- Big fat Mage_Core
- Should Customers be removed?

Magento2 as a CMS

Magento 2 has:

- composer
- loose coupling
- Magento_Framework
- No more hard dependencies
- DI (no more Mage::getModel() calls)
- It should be easy, right?









Magento2 as a CMS

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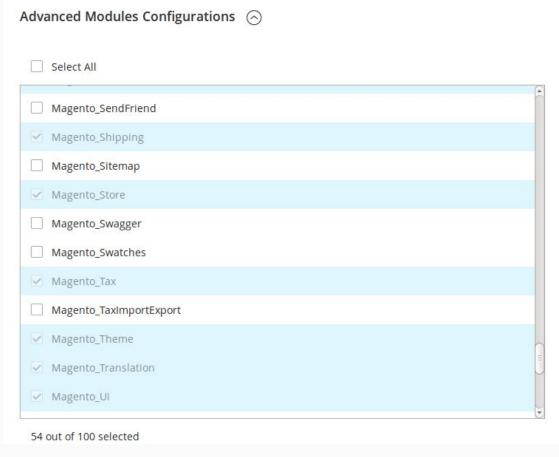






Thumbs up





Thumbs down

YEAH....that won't work

- dependent modules
- dependencies not declared
- bugs in the declared dependencies:
 - <u>#1296</u>, <u>#1579</u>, <u>#1291</u>
- circular dependencies
- dependencies that should not be there.

Magento to the rescue

- php bin/magento info:dependencies:show-modules

	A	В	C	D	
1		All	Hard	Soft	
2	Total number of dependencies	648	631	17	
3		i i			
4	Dependencies for each module:	All	Hard	Soft	
5	magento/module-catalog-widget	8	8	0	
6	magento/module-catalog		1	0	
7	magento/module-widget		1	0	
8	magento/module-backend		1	0	
9	magento/module-rule		1	0	
10	magento/module-eav		1	0	
11	magento/module-customer	il i	1	0	
12	magento/module-store		1	0	
13	magento/module-wishlist		1	0	
14					
15	magento/module-email	5	5	0	
16	magento/module-config		1	0	
17	magento/module-store		1	0	
18	magento/module-cms		1	0	
19	magento/module-backend	il i	1	0	
20	magento/module-variable		1	0	
21					
22	magento/module-directory	3	3	0	
23	magento/module-config		1	0	
24	magento/module-store		1	0	
25	magento/module-backend		1	0	

Magento to the rescue

- php bin/magento info:dependencies:show-modules-circular

1	Circular dependencies:
2	
3	
4	Circular dependencies for each module:
5	magento/module-catalog
6	magento/module-catalog->magento/module-store->magento/module-catalog
7	magento/module-catalog->magento/module-eav->magento/module-store->magento/module-media-storage->magento/module-backe
8	magento/module-catalog->magento/module-eav->magento/module-catalog
9	magento/module-catalog->magento/module-cms->magento/module-theme->magento/module-customer->magento/module-catalog
10	magento/module-catalog->magento/module-cms->magento/module-catalog
11	magento/module-catalog->magento/module-customer->magento/module-sales->magento/module-catalog
12	magento/module-catalog->magento/module-customer->magento/module-checkout->magento/module-catalog-inventory->magento/r
13	magento/module-catalog->magento/module-customer->magento/module-theme->magento/module-widget->magento/module-catalog
14	magento/module-catalog->magento/module-customer->magento/module-review->magento/module-catalog
15	magento/module-catalog->magento/module-customer->magento/module-tax->magento/module-catalog
16	magento/module-catalog->magento/module-customer->magento/module-quote->magento/module-catalog
17	magento/module-catalog->magento/module-checkout->magento/module-catalog
18	magento/module-catalog->magento/module-wishlist->magento/module-catalog
19	magento/module-catalog->magento/module-tax->magento/module-checkout->magento/module-shipping->magento/module-catalog

What can be disabled - shop related

Magento_AdminNotification	Magento_AdvancedPricingImportExport	Magento_Authorizenet	Magento_Braintree	Magento_BraintreeTwo
Magento_Bundle	Magento_BundleImportExport	Magento_Captcha	Magento_Catalog	Magento_CatalogImportExpor
Magento_CatalogInventory	Magento_CatalogRule	Magento_CatalogRuleConfigurable	Magento_CatalogSearch	Magento_CatalogUrlRewrite
Magento_CatalogWidget	Magento_Checkout	Magento_CheckoutAgreements	Magento_ConfigurableImportExport	Magento_ConfigurableProduc
Magento_CurrencySymbol	Magento_Dhl	Magento_Downloadable	Magento_DownloadableImportExport	Magento_Fedex
Magento_GiftMessage	Magento_GoogleAdwords	Magento_GoogleOptimizer	Magento_GroupedImportExport	Magento_GroupedProduct
Magento_LayeredNavigation	Magento_Marketplace	Magento_Msrp	Magento_Multishipping Magento_Persistent Magento_Review Magento_SampleData Magento_Ups	Magento_OfflinePayments Magento_ProductAlert Magento_Rule Magento_SendFriend Magento_Usps
Magento_OfflineShipping	Magento_Payment	Magento_Paypal		
Magento_ProductVideo	Magento_Quote	Magento_Reports Magento_SalesSequence		
Magento_Sales	Magento_SalesRule			
Magento_Shipping	Magento_Swatches	Magento_TaxImportExport		
Magento_Vault	Magento_Weee	Magento_Wishlist		
Magento_Contact	Magento_Deploy	Magento_Developer	Magento_EncryptionKey	Magento_GoogleAnalytics
Magento_ImportExport	Magento_indexer	Magento_Integration	Magento_NewRelicReporting	Magento_Newsletter Magento_Widget
Magento_PageCache	Magento_Rss	Magento_Search	Magento_Swagger	

What can be disabled - if you think you don't need

Magento_AdminNotification	Magento_AdvancedPricingImportExport	Magento_Authorizenet	Magento_Braintree	Magento_BraintreeTwo
Magento_Bundle	Magento_BundleImportExport	Magento_Captcha	Magento_Catalog	Magento_CatalogImportExpo
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Magento_OfflineShipping	Magento_Payment	Magento_Paypal	Magento_Persistent	Magento_ProductAlert
Magento_ProductVideo	Magento_Quote	Magento_Reports	Magento_Review	Magento_Rule
Magento_Sales	Magento_SalesRule	Magento_SalesSequence	Magento_SampleData	Magento_SendFriend
Magento_Shipping	Magento_Swatches	Magento_TaxImportExport	Magento_Ups	Magento_Usps
Magento_Vault	Magento_Weee	Magento_Wishlist		
Magento_Contact	Magento_Deploy	Magento_Developer	Magento_EncryptionKey	Magento_GoogleAnalytics
Magento_ImportExport	Magento_indexer Magento_Integration Magento_NewRelicReporting		Magento_Newsletter	
Magento_PageCache	Magento_Rss	Magento_Search	Magento_Swagger	Magento_Widget

What can be disabled - make it minimal

Magento_Customer

Magento_AdminNotification	Magento_AdvancedPricingImportExport	Magento_Authorizenet	Magento_Braintree	Magento_BraintreeTwo
Magento_Bundle	Magento_BundleImportExport	Magento_Captcha	Magento_Catalog	Magento_CatalogImportExport
Magento_CatalogInventory	Magento_CatalogRule	Magento_CatalogRuleConfigurable	Magento_CatalogSearch	Magento_CatalogUrlRewrite
Magento_CatalogWidget	Magento_Checkout	Magento_CheckoutAgreements	Magento_ConfigurableImportExport	Magento_ConfigurableProduct
Magento_CurrencySymbol Magento_Dhl		Magento_Downloadable	Magento_DownloadableImportExport	Magento_Fedex
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Magento_Vault	Magento_Weee	Magento_Wishlist		
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	Magento_indexer	Magento_Integration	Magento_NewRelicReporting	
Magento_PageCache	Magento_Rss	Magento_Search	Magento_Swagger	

Magento_CustomerImportExport

Magento_Tax

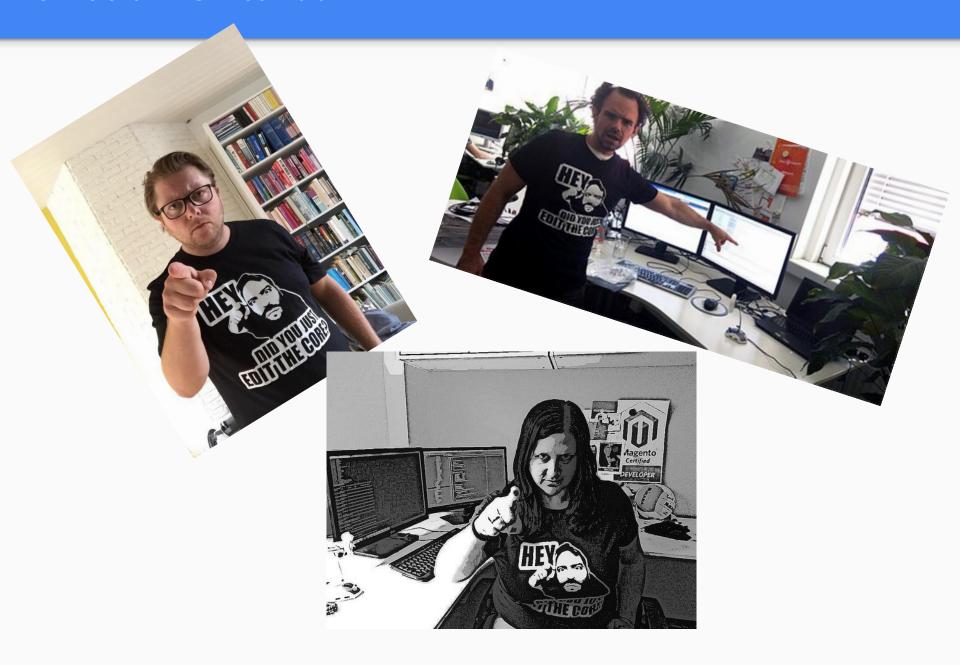
Second degree issues

- Admin menu troubles parent menus are removed
- System->configuration missing parent sections
- User permissions missing parent elements
- setup:di:compile throws errors
- URL rewrite module troubles

How I did it.

How I did it

How I did it. - YES!!! I admit it



How I did it - Core edits (bow head in shame).

- \Magento\Setup\Controller\Modules::allModulesValidAction()
 - return new JsonModel(['success' => true]); to skip composer.json parsing and dependency check
- app/code/Magento/Eav/etc/di.xml

How I did it

Keep the following files from disabled modules:

- \Magento\Reports\Model\ResourceModel\Report\AbstractReport
 - \Magento\Tax\Model\ResourceModel\Report\Tax\Createdat extends it
- Magento\Catalog\Api\Data\EavAttributeInterface
 - referenced in \Magento\Customer\Model\Attribute
- \Magento\Catalog\Model\Product\ReservedAttributeList
 - referenced in \Magento\Customer\Model\Attribute
 - referenced in \Magento\Eav\Model\Entity

- etc/di.xml
 - change the model used by reservedAttributeList

- copy dependencies wrongly declared in the Catalog module

- etc/di.xml
 - make the Tax module setup do nothing

```
<preference for="Magento\Tax\Setup\TaxSetup" type="Magecms\Driver\Setup\Tax\TaxSetup" />
<preference for="Magento\Tax\Setup\InstallData" type="Magecms\Driver\Setup\Tax\InstallData" />
<preference for="Magento\Tax\Setup\UpgradeData" type="Magecms\Driver\Setup\Tax\UpgradeData" />
```

- \Magecms\Driver\Setup\Tax\InstallData::install() does nothing
- Magecms\Driver\Setup\Tax\UpgradeData::upgrade() does nothing
- Magecms\Driver\Setup\Tax\TaxSetup
 - remove dependency on `\Magento\Sales\Setup\SalesSetupFactory` and `\Magento\Catalog\Model\ProductTypes\ConfigInterface`
 - add dependency `\Magento\Eav\Setup\EavSetupFactory`
 - getTaxableItems() returns empty array
 - addAttribute` and `updateAttribute` use `eavSetup` instead of `salesSetup`

- etc/di.xml
 - Change tax helper to remove sales reference

```
<preference for="Magento\Tax\Helper\Data" type="Magecms\Driver\Helper\Tax\Data" />
```

- change Google analytics bock to remove sales reference

```
<preference for="Magento\GoogleAnalytics\Block\Ga" type="Magecms\Driver\Block\GoogleAnalytics\Ga" />
```

change login block to remove reference to checkout

```
<preference for="Magento\Customer\Block\Form\Login\Info" type="Magecms\Driver\Block\Customer\Form\Login\Info" />
```

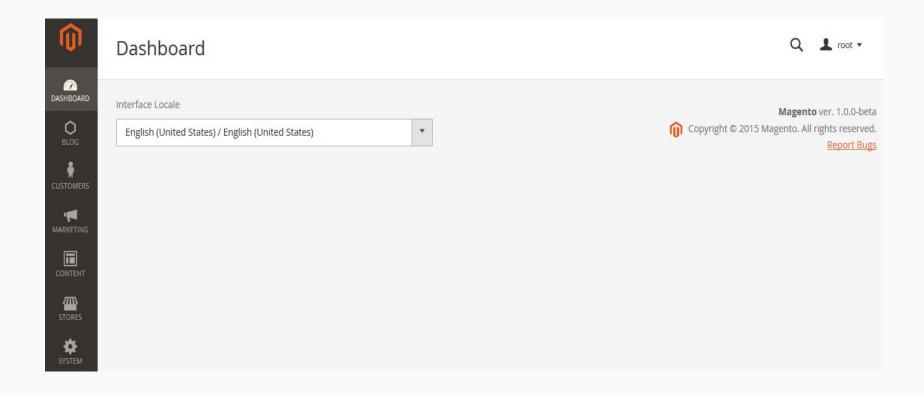
remove category select from store add/edit

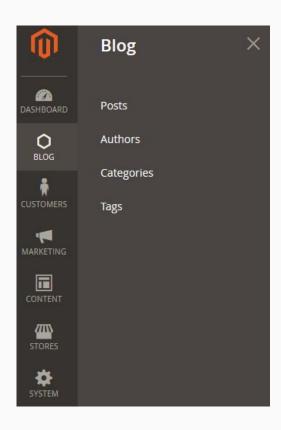
- etc/adminhtml/menu.xml
 - add some items that were in a disabled module

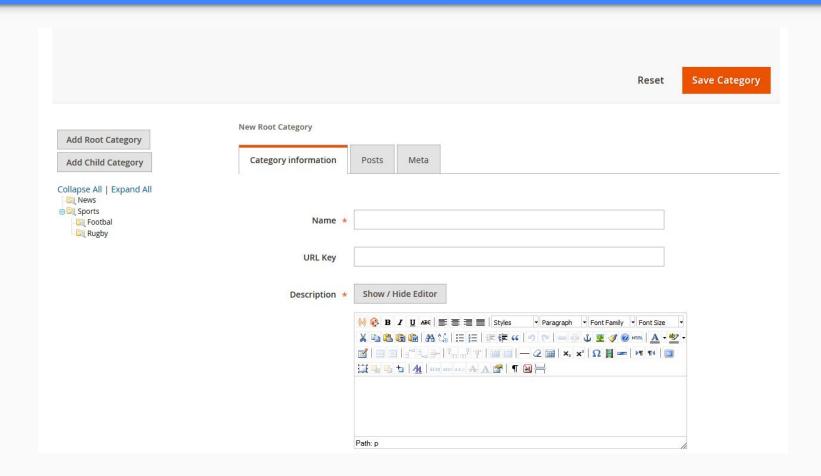
- etc/adminhtml/di.xml
 - add some plugins to handle the orphan menu items and config sections

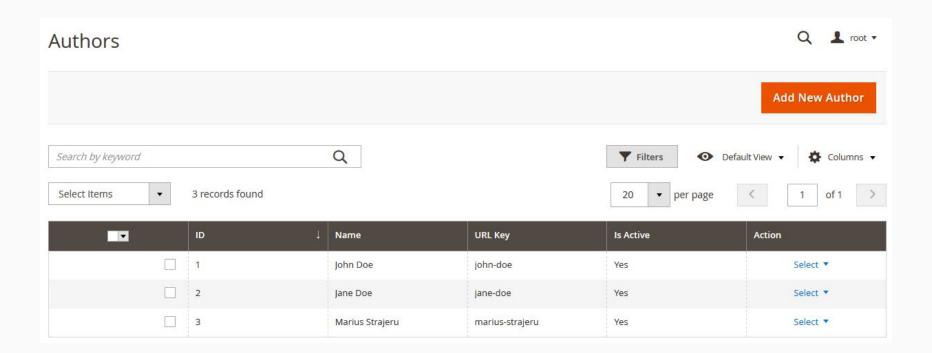
- view/adminhtml/layout/adminhtml_dashboard_index.xml
 - remove all blocks from admin dashboard

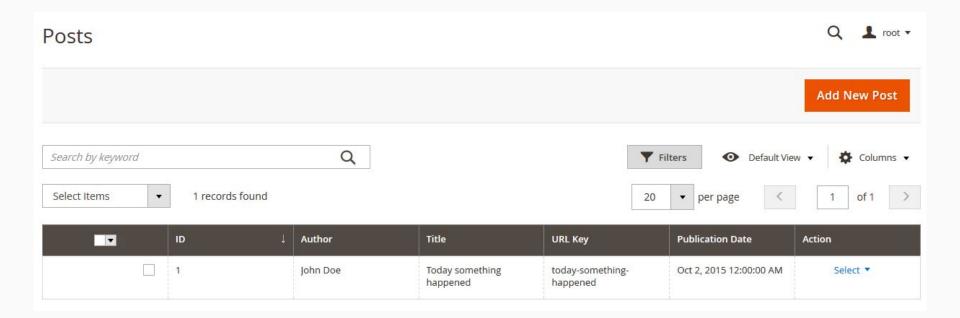
- view/frontend/layout/customer_account_create|login.xml
 - remove checkout references















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1 Item

Oct 2, 2015: Today something happened

1 Item

News Sports

Home > Today something happened

Today something happened

Publication date: Friday, October 2, 2015

Author: John Doe

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Categories

Footbal, News

Q&A

Wait...

FAQ

- No I did not turn Magento 2 into Wo****ss.
- The blog was just an example, it can easily be:
 - media website
 - presentation website
 - back-office application
- Even if I did, what would you rather write code on? Magento or "you know what".