Magento 2

as a CMS

Summary

- What is Magento (2) ?
- Can Magento 2 be a CMS?
- Possible approaches
- Problems of the approaches
- Example - Make Magento a blog.

What is Magento (2)?

✅ e-commerce software

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- ✅ AWESOME

What is Magento (2)?

- ✅ e-commerce software
- ✅ a framework
- ✅ AWESOME
- ❓ a CMS

What is Magento (2)?
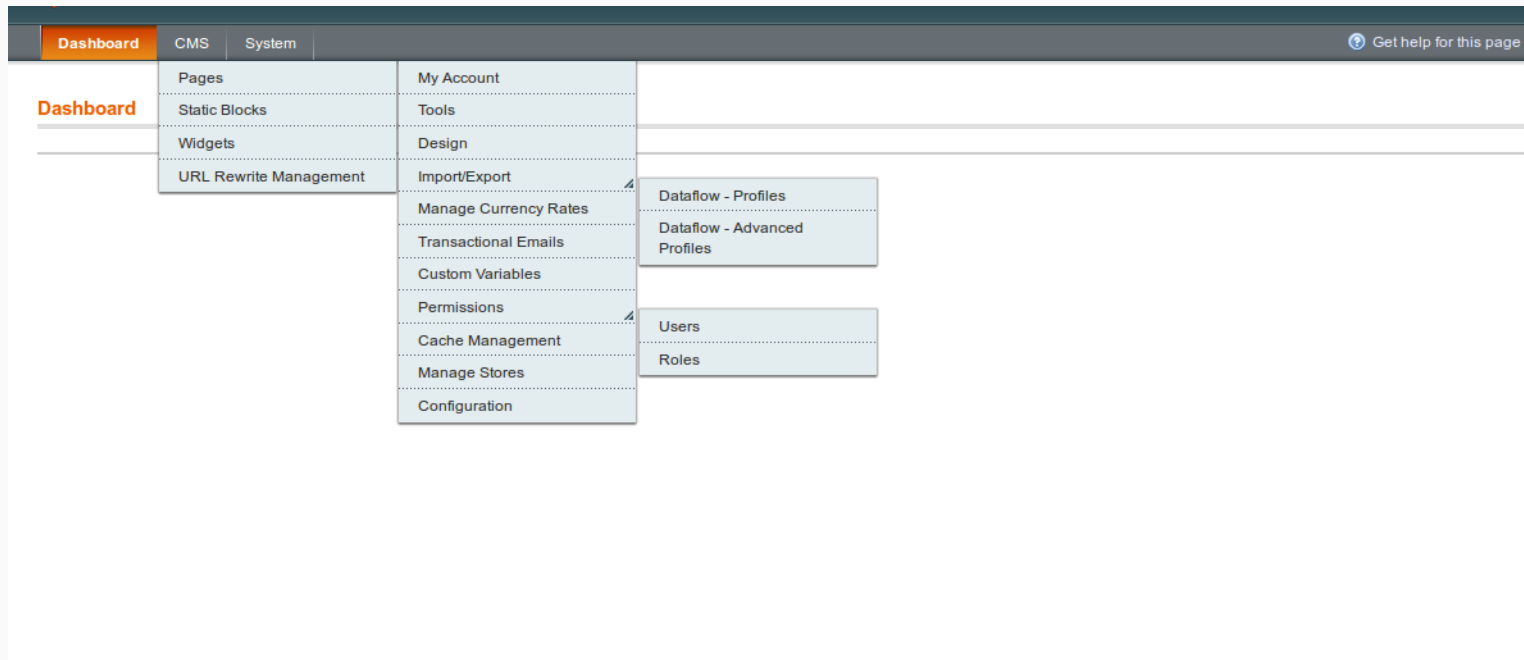
✅ e-commerce software

✅ a framework

✅ AWESOME

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

What is Magento (2)?

✅ e-commerce software

✅ a framework

✅ AWESOME

❓ 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

- Disable e-commerce modules: Catalog, Checkout, Sales, ...
- Troubles because of tight coupling.
- Big fat Mage_Adminhtml
- Big fat Mage_Core
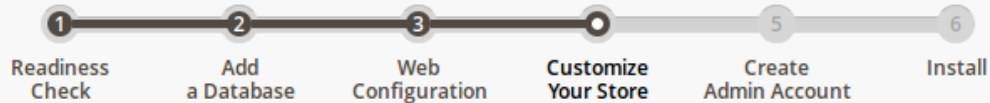- Should Customers be removed?

Magento 2 has:

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

Magento 2 has:

- composer
- loose coupling
- Magent~~o~~
- No more~~ ~~ncies
- DI (no m~~ore~~ Mage::getModel() calls)
- **It should be easier, right?**

wrong -ish

Select All

Magento_Authorizenet

Magento_Backend

Magento_Backup

Magento_Braintree

Magento_Bundle

Magento_BundleImportExport

Magento_CacheInvalidate

Magento_Captcha

Magento_Catalog

Magento_CatalogImportExport

Magento_CatalogInventory

Magento_CatalogRule

60 out of 90 selected

YEAH….that won't work

- dependent modules
- dependencies not declared
- bugs in the declared dependencies:
  - #1296, #1579, #1291
- circular dependencies

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

	A	B	C	D
1		All	Hard	Soft
2	Total number of dependencies	648	631	17
3				
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		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		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

- `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/m
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

Magento_AdminNotification	Magento_AdvancedPricingImportExport	Magento_Authorizenet	Magento_Braintree	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	Magento_GiftMessage
Magento_GoogleAdwords	Magento_GoogleOptimizer	Magento_GroupedImportExport	Magento_GroupedProduct	Magento_LayeredNavigation
Magento_Msrp	Magento_Multishipping	Magento_OfflinePayments	Magento_OfflineShipping	Magento_Payment
Magento_Paypal	Magento_Persistent	Magento_ProductAlert	Magento_Quote	Magento_Reports
Magento_Review	Magento_Rule	Magento_Sales	Magento_SalesRule	Magento_SalesSequence
Magento_SendFriend	Magento_Shipping	Magento_Swagger	Magento_Swatches	Magento_TaxImportExport
Magento_Ups	Magento_Usps	Magento_Webapi	Magento_Weee	Magento_Wishlist
Magento_Customer	Magento_CustomerImportExport	Magento_Tax		

Second degree issues

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

- A custom module to overcome what's missing.
- mock some classes that are used as dependencies (Magento\Tax\Model\Resource\Report\Tax\CreatedAt)

Compromises:

- some interfaces have to be kept in `Magento_Catalog`

```xml
<!-- To mock methods related to sales -->
<preference for="Magento\Tax\Helper\Data"
            type="Magecms\Driver\Helper\Tax\Data" />
<!-- To remove the sales tracking code -->
<preference for="Magento\GoogleAnalytics\Block\Ga"
            type="Magecms\Driver\Block\GoogleAnalytics\Ga" />
<!-- To remove checkout context from login -->
<preference for="Magento\Customer\Block\Form\Login\Info"
            type="Magecms\Driver\Block\Customer\Form\Login\Info" />
<!-- To remove the category selection int he store screen -->
<preference
            for="Magento\Backend\Block\System\Store\Edit\Form\Group"
            type="Magecms\Driver\Block\Backend\System\Store\Edit\Form\Group" />
<!-- Copied from the webapi module (#1759) -->
<type name="Magento\Framework\Reflection\MethodsMap">
    <arguments>
        <argument name="cache" xsi:type="object">Magento\Framework\App\Cache\Type\Webapi</argument>
    </arguments>
</type>
<!-- Copied from the catalog di.xml -->
<type name="Magento\Catalog\Model\Product\ReservedAttributeList">
    <arguments>
        <argument name="productModel" xsi:type="string">Magento\Framework\Model\AbstractExtensibleModel</argument>
        <argument name="reservedAttributes" xsi:type="array">
            <item name="position" xsi:type="string">position</item>
        </argument>
    </arguments>
</type>
<!-- The default class used references the catalog module -->
<type name="Magento\Eav\Model\Entity\Setup\PropertyMapper\Composite">
    <arguments>
        <argument name="propertyMappers" xsi:type="array">
            <item name="default" xsi:type="string">Magecms\Driver\Model\Entity\Setup\PropertyMapper</item>
        </argument>
    </arguments>
</type>
<!-- Copied from sales module -->
<type name="Magento\Framework\Reflection\DataObjectProcessor">
    <arguments>
        <argument name="extensionAttributesProcessor" xsi:type="object">Magento\Framework\Reflection\ExtensionAttributesProcessor\Proxy</argument>
        <argument name="customAttributesProcessor" xsi:type="object">Magento\Framework\Reflection\CustomAttributesProcessor\Proxy</argument>
    </arguments>
</type>
<!-- Copied from sales module -->
<type name="Magento\Framework\View\Element\UiComponent\DataProvider\FilterPool">
    <arguments>
        <argument name="appliers" xsi:type="array">
            <item name="regular" xsi:type="object">Magento\Framework\View\Element\UiComponent\DataProvider\RegularFilter</item>
            <item name="fulltext" xsi:type="object">Magento\Framework\View\Element\UiComponent\DataProvider\FulltextFilter</item>
        </argument>
    </arguments>
</type>
```

EDIT THE CORE

EDIT THE CORE *

* make sure it works without disabling the modules and make a pull request with your changes.

Dashboard

root ▾

DASHBOARD

BLOG

CUSTOMERS

MARKETING

CONTENT

STORES
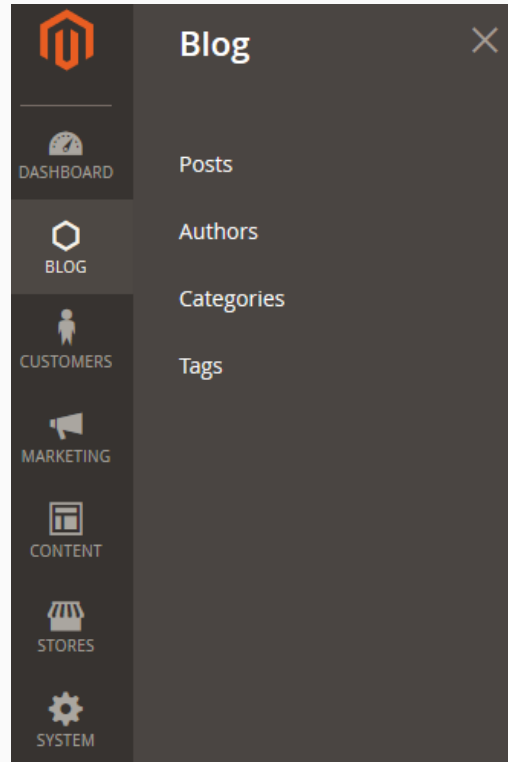
SYSTEM

Interface Locale

English (United States) / English (United States)

Magento ver. 1.0.0-beta
Copyright © 2015 Magento. All rights reserved.
Report Bugs

Example - Blog

Blog   ✕

Posts

Authors

Categories

Tags

DASHBOARD

BLOG

CUSTOMERS

MARKETING

CONTENT

STORES

SYSTEM

Example - Blog

Reset   **Save Category**

Add Root Category

Add Child Category

Collapse All | Expand All
- News
- Sports
  - Footbal
  - Rugby

New Root Category

| Category information | Posts | Meta |

Name *   [   ]

URL Key   [   ]

Description *   Show / Hide Editor

Path: p

Example - Blog

Authors

Add New Author

Search by keyword

Filters | Default View ▼ | ⚙ Columns ▼

Select Items ▼ | 3 records found | 20 ▼ per page | ‹ | 1 | of 1 | ›

	ID ↓	Name	URL Key	Is Active	Action
☐	1	John Doe	john-doe	Yes	Select ▼
☐	2	Jane Doe	jane-doe	Yes	Select ▼
☐	3	Marius Strajeru	marius-strajeru	Yes	Select ▼

Example - Blog

Posts

Add New Post

| Search by keyword 🔍 | | **Filters** | 👁 Default View ▼ | ⚙ Columns ▼ |

| Select Items ▼ | 1 records found | | 20 ▼ per page | ‹ | 1 | of 1 | › |

☐▼	ID ↓	Author	Title	URL Key	Publication Date	Action
☐	1	John Doe	Today something happened	today-something-happened	Oct 2, 2015 12:00:00 AM	Select ▼

Example - Blog

LUMA

News   **Sports**

Footbal

Rugby

Home >

News

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aliquam quis dolor malesuada nibh aliquet pretium quis porta mauris. Etiam non mi ultricies, semper ipsum vel, mollis ex. Nulla purus eros, suscipit sed iaculis et, sollicitudin at nunc. Sed vestibulum bibendum diam, ut sodales lectus mattis a. Integer dolor diam, rutrum sit amet ultrices id, commodo eget eros. Curabitur blandit et est in maximus. Suspendisse purus urna, fermentum in felis ut, rhoncus posuere libero. Proin at magna eu lectus laoreet malesuada commodo in sapien.

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

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aliquam quis dolor malesuada nibh aliquet pretium quis porta mauris. Etiam non mi ultricies, semper ipsum vel, mollis ex. Nulla purus eros, suscipit sed iaculis et, sollicitudin at nunc. Sed vestibulum bibendum diam, ut sodales lectus mattis a. Integer dolor diam, rutrum sit amet ultrices id, commodo eget eros. Curabitur blandit et est in maximus. Suspendisse purus urna, fermentum in felis ut, rhoncus posuere libero. Proin at magna eu lectus laoreet malesuada commodo in sapien. Nunc arcu sem, aliquet eu feugiat quis, rhoncus a enim. Maecenas volutpat massa ac vehicula tristique. Vivamus condimentum mauris quis sapien blandit, ac viverra magna auctor. Morbi commodo ligula a dolor sodales lobortis. Nunc sodales ut odio nec dignissim. In imperdiet ex in commodo laoreet. Quisque vel lacus vitae neque pulvinar sagittis. Aenean eu dictum est. Aenean vitae lacus at lacus placerat pulvinar vitae ut arcu. Integer a sollicitudin diam. Integer a mauris facilisis, sagittis velit vel, tincidunt odio. Aenean ac lorem convallis, ornare lorem sed, ullamcorper massa. Integer tempor feugiat justo, vel euismod enim faucibus vitae. Aliquam erat volutpat. Aliquam eu ante finibus, placerat lorem eget, dapibus libero. Aliquam vitae condimentum est. Maecenas aliquam pellentesque pretium. Maecenas eget purus at leo varius elementum vitae ac neque. Pellentesque vulputate nunc non augue congue egestas. Sed ut laoreet ex. Vivamus pulvinar elit ac maximus semper.

Categories

Footbal , News

Q&A