



S U L U

A Content Management
Framework for Symfony



About me

Karsten Frohwein

- Developer since 2001
- Symfony > 3.x
- [sulu.io](https://www.sulu.io)
- https://www.xing.com/profile/Karsten_Frohwein/cv
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- <https://www.orizon.de/de>



What is a CMS?

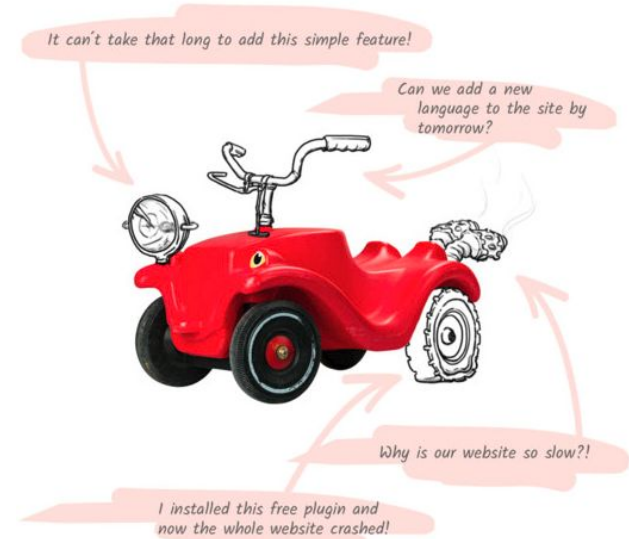
A way to let the customer create a website without any knowledge about the www, writing or design that can solve all™ problems

...

Something weird!

The end of the CMS is nigh!

Raise of the frameworks

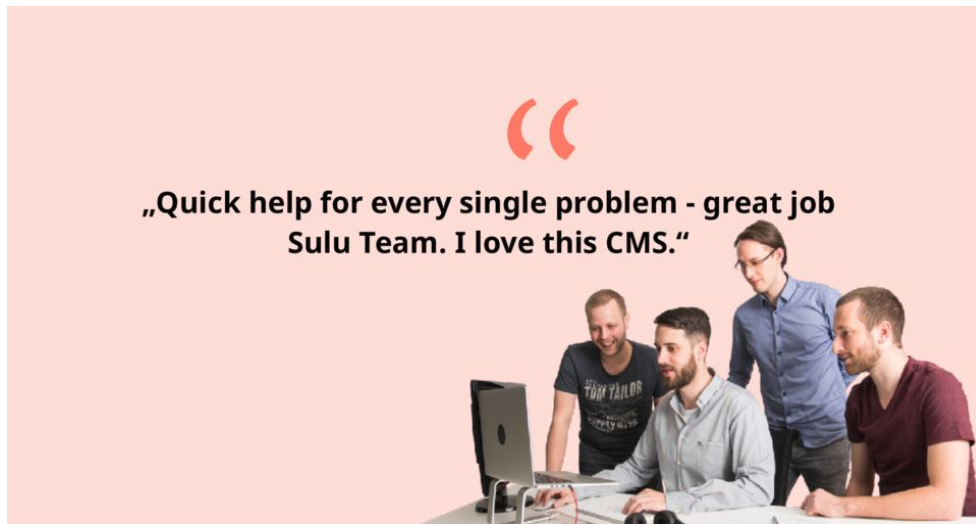


About sulu.io



Created to be as much of a framework-bundle as possible

- No config in the Database!
 - Versatile
 - Own your code
 - Close to symfony as possible
-
- sulu GmbH
 - From Austria with love



What sulu NOT is!



- Easy to setup
 - Complex stack that is build to use various daemons
 - Relies on CLI commands
 - No 5 minute setup
- 100.000 plugins of dubious code quality
 - Symfony bundles but no plugins
- Something for very small websites
 - wordpress
 - static site builder
- You have to know symfony!



CMS



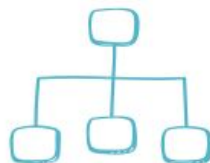
**Full content
life cycle**



**Asset
management**



Multilingual



Multi portal



**Personalized
content delivery**



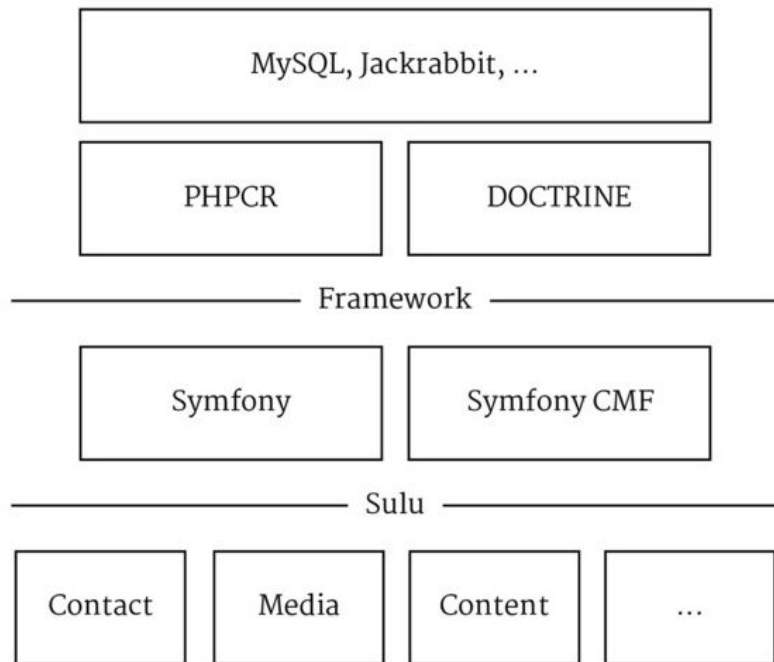
**SEO & online
marketing**



**Headless / API
First**

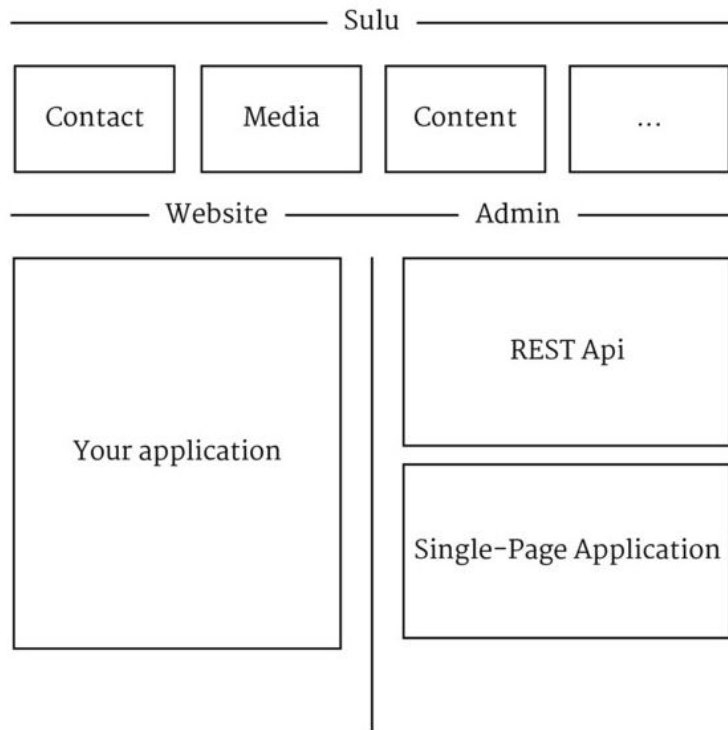
Dev Stack

- Symfony to its core
- Doctrine Entities
- Standard Router
- The sulu bundles will help and support you
- symfony proxy = Caching & ESI



Application Stack

- You may use Twig
- Or just FOSRest
- Do as you like there are no limits!



Content Management Framework (CMF)



- Symfony CMF Routing Bundle
- Chain Routing
- Dynamic Routing

<http://symfony.com/doc/master/cmf/bundles/routing/index.html>



Setup & Stack



composer create-project sulu/sulu-minimal my-project -n

- PHP > 7.1
 - ext-dom
 - ext-fileinfo
 - ext-iconv
 - ext-json
 - ext-SimpleXML



- Elastic Search 5.6
 - Not a hard dependency but I recommend it



PHP Content Repository (PHPCR)



Comes from Java - JCR

NoSQL in MySQL

When to use PHPCR

- For hierarchical navigation structures
- For compound data that belongs together.
i.e. a web page with attached files or translations
- You need to version content
- You want full text search



Webspaces

- Basic Setup
- Multiple Webspaces & Portals & Environments
- Multi Lingual

```
....  
<resource-locator>  
  <strategy>tree_leaf_edit</strategy>  
</resource-locator>  
  
  <portals>  
    <portal>  
      <name>example</name>  
      <key>example</key>  
  
      <environments>  
        <environment type="prod">  
          <urls>  
            <url language="en">example.org</url>  
          </urls>  
        </environment>  
        <environment type="dev">  
          <urls>  
            <url language="en">example.lo</url>  
          </urls>  
        </environment>  
      </environments>  
    </portal>  
  </portals>  
...
```

Templates & Content Types

- XML definitions
- Various preset content types
 - Category list
 - Checkbox
 - Color
 - Date
 - Email
 - ...
- Block System
- Snippets

```
<!-- ... -->

<template>

  <section name="organizationalDetails">
    <!-- ... -->
    <properties>
      <property name="article" type="text_editor">
        <meta>
          <title lang="en">Article Content</title>
        </meta>
      </property>
      <property name="startDate" type="date">
        <meta>
          <title lang="en">Start Date</title>
        </meta>
      </property>
      <property name="endDate" type="date">
        <meta>
          <title lang="en">End Date</title>
        </meta>
      </property>
    </properties>
  </section>
  <!-- ... -->

</template>
```

Twig

- Just use twig as you know it
- sulu doesn't care about your JS & CSS!
- Set it up with no limits as you like
- Use the tools / frameworks that do the Frontend Job
- Still use Webpack Encore :)

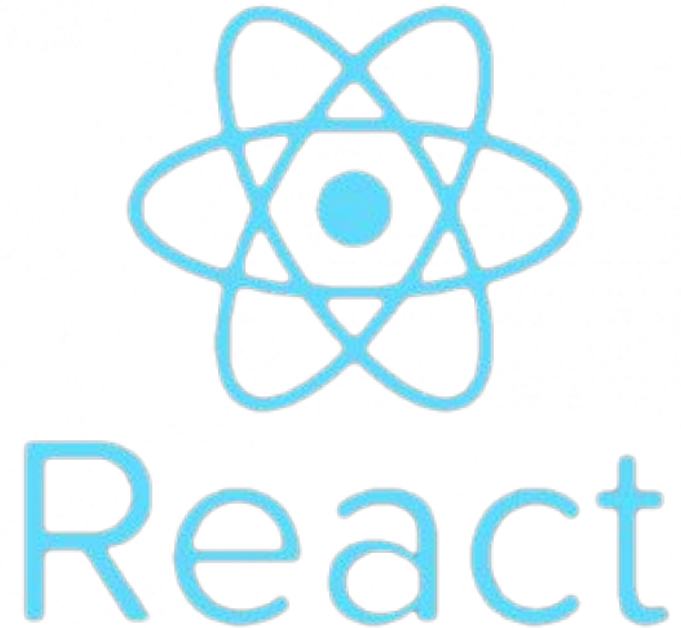
```
{% extends "AppBundle::master.html.twig" %}

{% block content %}
    <h1 property="title">{{ content.title }}</h1>

    <div property="article">
        {{ content.article|raw }}
    </div>
    <div property="startDate">
        {{ content.startDate }}
    </div>
    <div property="endDate">
        {{ content.endDate }}
    </div>
{% endblock %}
```

2.0 Backoffice in React

- Responsive
- Responsive Preview
- High Speed
- Highly Interactive
- All Rest-ified



Configure your backend from PHP

- XML Configs
- Controller with REST & HATEOAS
- Highly customizable
 - creating new views
 - creating new fields
 - creating new toolbar buttons
 - creating new preview

<https://github.com/sulu/ExampleEventBundle>

2.0 Bring your own entity



- sulu.io the Data Management System
- Connect any Entity by REST & HATEOAS
- Browse standard sulu lists
- XML Config to use sulu Content Types to provide and alter the data



**...even better as a data
management system**

Symfony Event System



- sulu heavily relies on the symfony event system!
- Saving and loading content resides in events!

```
vagrant@sulu:/var/www/vhosts/orizon$ bin/adminconsole sulu:document:subscriber:debug
Specify one of the following event names to display the subscribers:
```

```
+-----+
| Event |
+-----+
| persist |
| hydrate |
| remove  |
| refresh |
| copy    |
| move    |
| create  |
| clear   |
| find    |
| reorder |
| publish |
| unpublish |
| remove_draft |
| flush    |
| query.create |
| query.create_builder |
| query.execute |
| configure_options |
| metadata_load |
| restore     |
+-----+
```

CLI Commands



- `sulu:build`
- `sulu:article:reindex`
- `massive:search:reindex`
- `sulu:phpcr:init`

<code>sulu</code>	
<code>sulu:article:reindex</code>	Rebuild elastic-search index for articles
<code>sulu:build</code>	Execute build or build targets
<code>sulu:categories:recover</code>	
<code>sulu:contacts:accounts:recover</code>	
<code>sulu:content:cleanup-history</code>	Cleanup resource-locator history
<code>sulu:content:locale-copy</code>	Copy content nodes from one locale to another
<code>sulu:content:resource-locator:maintain</code>	Resets the cached url value on every node in the live workspace
<code>sulu:content:types:dump</code>	Dumps all ContentTypes registered in the system
<code>sulu:content:validate</code>	Dumps pages without valid templates
<code>sulu:content:validate:webspaces</code>	Dumps webspaces and will show an error when template could not be loaded
<code>sulu:document:fixtures:load</code>	Load Sulu document fixtures
<code>sulu:document:initialize</code>	Initialize the content repository/repositories.
<code>sulu:document:subscriber:debug</code>	Show event listeners associated with the document manager
<code>sulu:media:format:cache:clear</code>	Clear all or the given Sulu media format cache
<code>sulu:media:init</code>	Init Sulu Media Bundle
<code>sulu:media:type:update</code>	Update all media type by the set configuration
<code>sulu:phpcr:init</code>	initiate phpcr repository (deprecated)
<code>sulu:route:update</code>	Update the routes for all entities.
<code>sulu:security:role:create</code>	Create a role.
<code>sulu:security:user:create</code>	Create a user.
<code>sulu:snippet:export</code>	Export snippet translations from given language.
<code>sulu:snippet:import</code>	Import Snippets
<code>sulu:snippet:locale-copy</code>	Copy snippet nodes from one locale to another
<code>sulu:translate:export</code>	Loads translation messages as defined by the parameters from the bundles and writes them to a file, which also can be configured via the parameters. If a locale got specified, only the translation corresponding to that locale get exported. Otherwise the translation files get exported for all locales defined in the system
<code>sulu:website:dump-sitemap</code>	
<code>sulu:websocket:dump</code>	Dumps websocket apps config
<code>sulu:websocket:run</code>	Start websocket server
<code>sulu:webspaces:copy</code>	Copy whole webspace
<code>sulu:webspaces:export</code>	Export webspace
<code>sulu:webspaces:import</code>	Import webspace
<code>sulu:webspaces:init</code>	Creates default nodes in PHPCR for webspaces (deprecated)

Bundles

- Form Bundle
- Article Bundle
- Community Bundle
- Automation Bundle
- Redirect Bundle
- Theme Bundle



Thank you!



- It's a CMS & Framework
- You control your code
- Strict separation between config and content
- Helps you solve everyday tasks
- Open Source
- #Slack Channel

<https://sulu.rocks/en>

<https://sulu.io/en/contact>

