

ZOTONIC

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# Zotonic is...

- Content Management System
- Framework for dynamic web applications
- *Not only* for Erlang developers
- Open Source (Apache License 2.0)

# Controllers

- Built on a fork of Webmachine

```
{page, ["page", id], controller_page, []}
{home, [""], controller_template,
      [{template, "home.tpl"}]}
{my_api, ["api"], controller_my_api, []}
```

# controller\_page

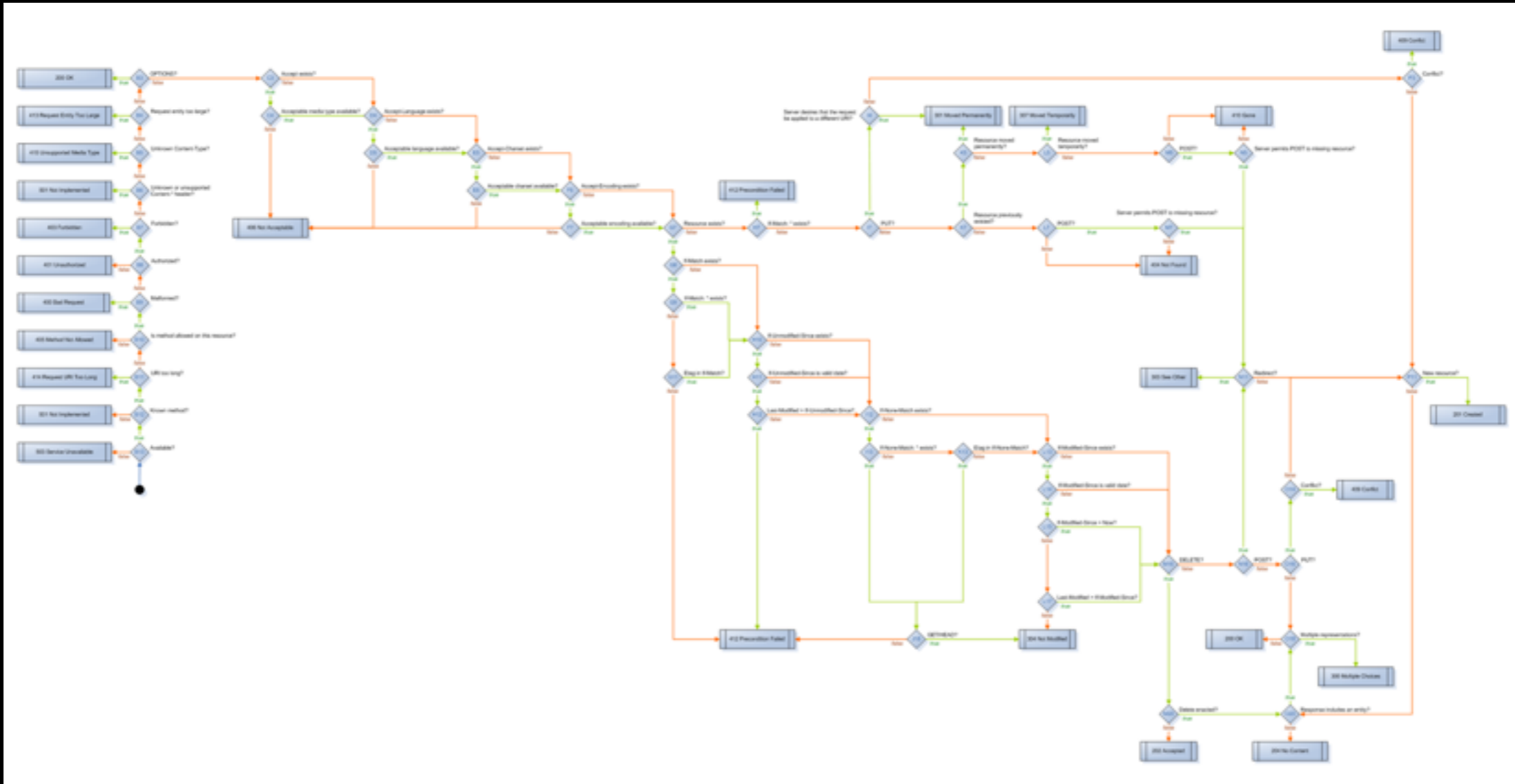
The screenshot displays the Drupal 7 content editor interface for a page titled "Zotonic, the Erlang CMS". The interface is divided into several sections:

- Basic:** Contains fields for "Title" (Zotonic, the Erlang CMS), "Summary" (Zotonic is a content management system based on the functional programming language Erlang. It's an amazing product, benefiting from the concurrent nature of Erlang to perform at blazing speeds, typically 10-100 times faster than a "regular" cms built in PHP on Apache.), and "Short title" (Zotonic).
- Address:** A section for the page's URL path, currently showing "p".
- Content:** A rich text editor with a toolbar and a text area containing the main content of the page. The text reads: "The data model of Zotonic is very generic and can be thought of to use only 2 database tables: one to store documents, called resources, and one to create connections between these resources. Furthermore, resources are classified in a category tree, so you can develop functionality (like different page controllers and templates) based on which category a resource belongs to." Below this, there is a sub-section titled "What did I build?" with the text: "I am still involved as a core developer in the Zotonic team. My main responsibilities include release management,".
- Publish this page:** A section for managing the page's publication status. It includes buttons for "Save", "Save & view", and "Cancel". There are also checkboxes for "Published" (checked), "Featured", and "Protect". Below these are buttons for "Delete" and "Duplicate", and navigation arrows.
- Access control:** A section for managing access permissions, currently collapsed.
- Publication period:** A section for managing the page's publication period, currently collapsed.
- Date range:** A section for managing the page's date range, currently collapsed.
- Page connections:** A section for managing page connections. It shows a connection to "About" with a blue plus icon. Below this are links for "+ add a connection".
- About:** A section for managing the page's author and commissioner. It shows a connection to "Introducing Zotonic" with a blue plus icon. Below this are links for "+ add a connection".
- Author:** A section for managing the page's author, currently collapsed.
- Commisioned by:** A section for managing the page's commissioner, currently collapsed.

# controller\_template

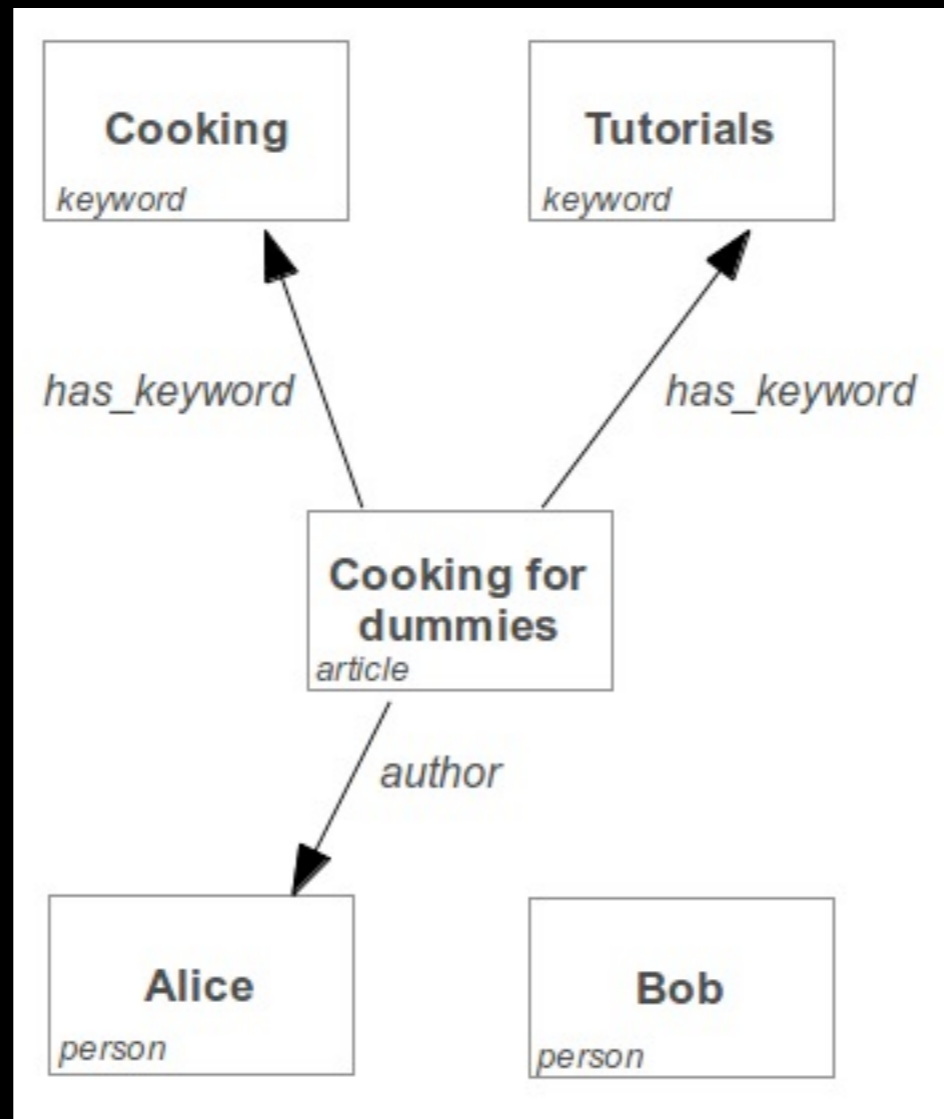
```
<li>
  <h3>{{ m.rsc[id].title }}</h3>
  {% for image_id in m.rsc[id].o.depiction %}
  <figure>
    {% media image_id width=100 link=id %}
    {% if m.rsc[image_id].summary %}
    <p class="image-caption">
      {{ m.rsc[image_id].summary }}
    </p>
    {% endif %}
  </figure>
  {% endfor %}
</li>
```

# Custom controllers



# Data Model

```
{{ m.rsc[id].o.author[1].title }}
```



# Features

- CMS goodies
- Nitrogen like event model
- Internal notification mechanism
- WebSocket support off-the shelf



# Why Erlang?

- **Real** multi core support
- Fault tolerance, hot code upgrades etc.
- Many long running processes
- Web apps are quite like telephone switches

# Some examples

- MaxClass
- Channel.me
- Kroonappels

# Roadmap

- Module Repository (GSoC)
- File Storage API (S3, OpenStack, DropBox)
- Database abstraction
- Distribution: Zynamo
- Resource sharing over XMPP PubSub

# Get involved!



<http://zotonic.com/>



@Zotonic



<https://github.com/zotonic/zotonic>



zotonic-users, zotonic-developers

# Questions?



zotonic