

Nuxeo WebEngine unveiled

The content-centric web framework

"Nuxeo WebEngine is a **lightweight**, **content-centric** web framework to quickly build and deliver **slices of web**"

what the web really is about?

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URL HTML CSS RSS / ATOM JavaScript

HTML HSS/ATOM/I JavaCaript content content content

why WebEngine?

because URLs matter

because you have content to expose on the web

because you want **more** than web publishing

content repository ecm platform many services and features flexible and modular components everywhere

do you need anything else to create your content-oriented web apps?

sure!

dynamic horizontal scaling easy programing model designed for the web

and what about that?

lightweight framework content-centric extensible with scripting components architecture lightspeed startup



Nuxeo WebEngine

less abstraction, more control

Overview

- Easier and faster development for content-oriented web applications
- leverage a complete ECM platform
- ...and a powerful component model

less abstraction

- focus on content
- built on REST (HTTP means something)
- no JSF, EJBs, Java EE required
- no magic

more control

- the browser is a platform
- widgets are the key to expose your content
- scripting for business logic
- fast code/test cycle

smart & elegant

Designed by web's children, for the web you like

- Content is king
- URL matters
- REST everywhere, because the web has a soul
- and... in developers we trust

WebEngine Essentials

- easy MVC
- smart URL dispatcher
- flexible views on content
- powerful templating language Freemarker
- scripting for logic Groovy, JS, Python, Ruby, etc.

a real MVC model

Model

Content

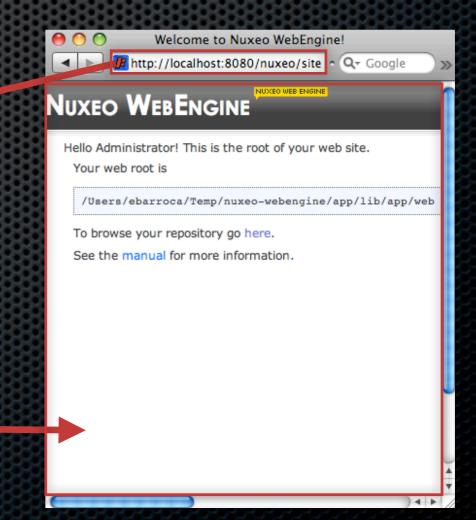
DocumentModel
from Nuxeo Core

Controler

Scripts or Java Code

View

Templates (Freemarker)



smart URLs

/articles/cars/porsche/cs/overview@view?param=value

app ID

content path (in the repository)

action selector

parameters

or **simply**:

/articles/cars/bmw/s3/overview

(because the *view* action is implied)

smart URLs: mappings

You can also define mappings to control your URLs

Will make the URL /user/JohnDoe call the script user_detail.groovy, with the variable username (having the value"JohnDoe") automatically passed to it.

@@actions

- an action...
 - points to a template, a script or a Java class
 - has a guard (ex: permission)
 - is bound to a content type
 - belongs to a category
 - is prefixed in the URL by @@ (ex: @@print)
- actions represent a powerful way to bind views and logic to content

@@actions

New action view_content on WikiObjects.

WebEngine will look for a template called **view_content.ftl** and use it as view.

New action **show_comments** on **WikiObjects**.

As a script is defined, WebEngine will execute the script show_comments.groovy and return the result.

#templates

- based on the FreeMarker engine
- template inheritance
- easy access to content
- extensible context (variable injection)
- and... extensible Nuxeo's style! You can use your preferred template engine (PHP anyone?)

Scripting

- scripts can access all services of the Nuxeo Platform services
- several scripting languages included Groovy,
 Python, JavaScript, Ruby, etc. (thank you, JSR-233!)
- easy logic, powerful features
- and... the strength of the Java VM

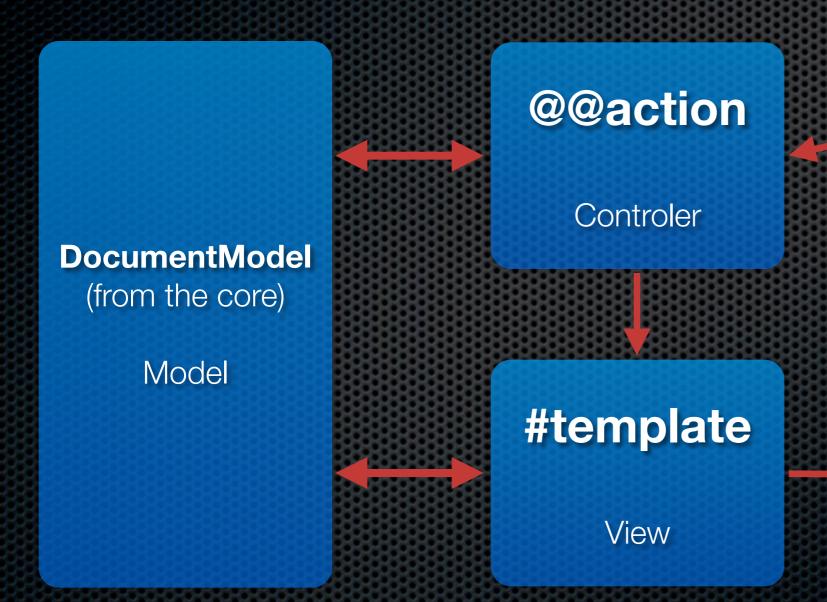
here is how you list the comments on a document

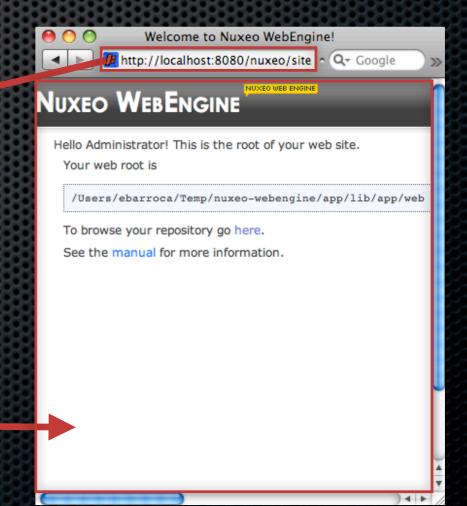
or perform a query

or list a folder's content

```
//Document is the current content object
docchildren = Document.children
```

MVC in your hands





Based on a complete ECM platform

- content store (Nuxeo Core, JCR-based)
- advanced Access Control (through permissions)
- enterprise-class authentication & user/group management
- indexing and search
- comments, relations, etc.
- and a dozen more! ;-)

Components everywhere

- hot-reloadable extension points
- compose your apps dynamically with plugins
- works with Jetty, JBoss and GlassFish3
- and... Nuxeo style! :-)

showtime

```
@extends src= wiki/base.ftl">
@block name="content">-
div class="summary-entries">-
#list Document.children?reverse as entry>
 <div class="summary-entry">
   <h2 class="summary-title"><a
href="${Root.urlPath}/${entry.name}">${entry.title}</a></h2>
   <div class="summary-content">-
       <@wiki>${entry.wikiPage.content}</@wiki>-
   </div>
 </div>
 <div class="summary-byline">${entry.dublincore.modified?datetime} by
${entry.dublincore.creator}</div>-
</#list>
</div>
k/@block>
10extendes
```

NUXEO WEBENGINE DOCUMENTATION

Note that this is the documentation embedded within the Nuxeo Web Engine and may not be up to date. It is only provided for convenience. To access the full documentation please visit http://www.nuxeo.org/webengine

NUXEO WEBENGINE

The WebEngine is a framework to build web applications on top of the Nuxeo ECM product.

1 Overview

The main goal for the WebEngine framework is to let users to build web applications quickly and easly and in a traditional way without having knowledge on advanced Java topics such as JSF or Seam.

The second goal is to be able to develop web pages while the server is running, without the need of restarting the server each time the configuration or the code is modified.

The web pages are build using Freemarker templates for the presentation part and optionally scripts (like groovy, jython etc) or custom Java request handlers for the logical part.

Thus a web application is made from:

- 1. Configuration based on the nuxeo extension points mechanism
- 2. Templates freemarker is used as the template engine
- Scripts any script supported by java scripting engine.
- 4. Custom Java Code plugged-in through extension points

Here is an example of a simple template page that is outputing Q:My name is CURRENT_USER_NAME:

My name is \${Context.principal.name}!

The same can be done from a script: (in this example a groovy script)

Context.print("My name is \${Context.principal.name}")!

1.1 Bridging with Nuxeo ECM

The WebEngine was created to work over a Nuxeo ECM server. Using it outside Nuxeo ECM is possible but is very limiting and you will loose many of the cool features of the WebEngine. If you don't plan to use a Nuxeo ECM as the Target you to look on other products that may fit botter your acad

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A Maria
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Documentation

Thank you!

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