Base Distribution - Work Package # 45088: Improved REST support

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Status:	Accepted	Priority:	Should have
Author:	Bastian Waidelich	Category:	General / Project
Created:	2013-02-01	Assignee:	Bastian Waidelich
Updated:	2013-02-16	Due date:	2013-03-29
Subject:	Improved REST support	!	
Description:	h1. Improved REST support		
	* Target Audience: *developers* who want to use Neos * Responsible: "Bastian Waidelich (click to contact)":http://forge.typo3.org/users/61 * Implemented by: "Bastian Waidelich (click to contact)":http://forge.typo3.org/users/61, "Andreas Förthner (?) (click to contact)":http://forge.typo3.org/users/19		
	* Amount: 18 work days		
	* Version: *must have* for 1.0		
	* Planned Implementation Timeframe: week 7 to 14, 2013		
	h2. Motivation		
	A solid webservice interface provides countless possibilities. With a proper foundation it would easi possible to expose the TYPO3 Content Repository as service for instance. This would allow other system interact with arbitrary nodes (e.g. mobile clients creating pages, a simple plugin creating content nodes, Another use case are custom service APIs for the clients business logic. Flow already provides basic surfor that, but there are some important parts missing.		
	h2. Goal		
	The goal is to have a solid foundation #37604 will be used as base for this.	to easily provide cust	tom REST APIs. What has been started at
	h2. Deliverables		
	* *MUST*: more flexible request handling		
	,	- this is required in o	rder to fix argument mapping with non-GET
	** More flexible parsing of body argume formats	ents #45293 - this is i	required in order to support custom request
	* *MUST*: Routing improvements		
	** Global route constraints #27117 - this is required in order to match requests based on the request method		
	and/or arbitrary request headers		
	** Nested sub routes #43966 - this is required in order to easily allow developers to include "RESTful" routes		
	* *MUST*: session-less authentication #45282 - currently Flow creates a session for every authentication,		
	this is incompatible with REST		
	* *MUST*: solid test coverage		
	* *MUST*: documentation		
	* *COULD*: improved error handling - cu	irrently exceptions are	rendered independently from the requested

History

2013-02-07 11:02 - Andreas Förthner

format (HTML for all web requests)

Just a short commet regarding the session-less authentication: This is already possible as long as none of your configured authentication providers starts a session (@Flow\Session(autoStart=true) at the authenticate() method). We simply need a provider without this annotation and no session

* *COULD*: exemplary (mobile) client that interacts with the TYPO3CR

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should be started/needed.

2013-02-07 12:05 - Bastian Waidelich

Andreas Förthner wrote:

> Just a short commet regarding the session-less authentication: This is already possible as long as none of your configured authentication providers starts a session [...]

I don't think so, I already found 3 places where Flow relies on a session to be active ("AuthenticationProviderManager::emitAuthenticatedToken()", "AuthenticationProviderManager::isAuthenticated()" and "RequestDispatchingAspect::setInterceptedRequest()"). For the latter Christopher already came up with a solution: https://review.typo3.org/#/c/17967/

2013-02-08 17:29 - Bastian Waidelich

- Subject changed from [WIP] Improved REST support to Improved REST support

2013-02-12 14:25 - Sebastian Kurfuerst

Discussion during EAB / Neos meeting:

- * Bastian estimates that 25% of this whole package is documentation.
- * the documentation also should include easy-to-run examples (f.e. how to create pages using the REST API); f.e. with curl or guzzle
- * proper REST support would also be the basis for implementing e.g. CMIS standard lateron

2013-02-16 14:59 - Sebastian Kurfuerst

- Status changed from New to Accepted

2013-02-16 15:11 - Sebastian Kurfuerst

- Due date set to 2013-03-29
- Start date changed from 2013-01-31 to 2013-02-16
- Estimated time set to 108.00

Has been discussed with Jan-Hendrik from the EAB on 12.02.2013; and has been *accepted* on 15.02.2013 by the EAB. (The attached PDF is a snapshot of this work package at the time of acceptance.)

So, Bastian and Andi, you can schedule this work package in your day-to-day calendar and implement it then -- can't wait to see it in Neos 1.0:-)

Another side-note: Please do not forget to add comments to this work package and update "% done" while you are working on this package.

Greets, Sebastian

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