

Redmine - Feature #8900

Restful Web service: generate WADL

2011-07-26 07:44 - Nicolay Punin

Status:	Closed	Start date:	2011-07-26
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:	REST API	Estimated time:	0.00 hour
Target version:			
Resolution:	Wont fix		

Description

Redmine does not generate WADL for his Web Service (http://en.wikipedia.org/wiki/Web_Application_Description_Language)

It helps to generate Java Rest clients automatically.

specification: <http://java.net/projects/wadl/sources/svn/content/trunk/www/wadl20090202.pdf>

Some QA: <http://bitworking.org/news/193/Do-we-need-WADL>

History

#1 - 2011-08-04 22:37 - Jean-Baptiste Barth

Nicolay Punin wrote:

It helps to generate Java Rest clients automatically.

And it will probably be a bunch of work to maintain it ... manually, no ? Have you tried to generated such an XML description of the Redmine current API, and can you give us some points to convince us to introduce it ?

Maintaining it in a plugin could be a viable option too...

#2 - 2011-08-08 23:16 - Nicolay Punin

1. No manually. Wadl generator library helps you. For example, http://rubydoc.info/gems/wadl_generator/0.1.2/WADL/Generator
2. It will increase the attractiveness for java developers.
3. I do not want to use this (<http://code.google.com/p/redmine-java-api>) library.

- It supports only 1.2.0. Not 1.3
- It is a bike :(

4. I am work with redmine Rest API by means of Spring rest template (<http://blog.springsource.com/2009/03/27/rest-in-spring-3-resttemplate/>).
- At least 90% of my code can be automatically Generate by WADL parser. It is very convenient
5. This will be useful for the community.
6. This may be used in java IDE (Eclipse/RubyMine/Idea/Netbeans,etc.)

Maintaining it in a plugin could be a viable option too...

I writed already the plugin for me. It can show or modify project roles and status.
Maybe I'll write a WADL redmine plugin. If I will have a time :)

Something information:

- wadl generator library http://rubydoc.info/gems/wadl_generator/0.1.2/WADL/Generator
- wadl online generator <http://tomayac.de/rest-describe/latest/RestDescribe.html>
- question in stackoverflow <http://stackoverflow.com/questions/1100109/wadl-wsdl-2-0-for-restful-services-in-ruby-on-rails>

#3 - 2011-08-10 00:13 - Terence Mill

+1

#4 - 2011-08-25 11:14 - Siegfried Vogel

+1

Would be very helpful to detect and test Redmine RESTful API.

#5 - 2011-10-14 17:15 - laurent sauvage

+1

#6 - 2012-01-03 18:07 - Alex Last

Redmine Java API supports Redmine 1.3.0

#7 - 2012-01-03 18:11 - Alex Last

Would be just great to generate the client code using some definition file. Until then, you're welcome to use (and improve!) the custom-made Redmine Java API.

#8 - 2012-01-12 12:02 - Nicolay Punin

Redmine Java API is not suitable for my case, because in my redmine installation I have plugins enhancing default REST functionality. I wrote my own Java client using Spring Rest Template(link: <http://static.springsource.org/spring/docs/3.0.x/javadoc-api/org.springframework.web.client.RestTemplate.html>) and JAXB to write less code.

Here is the idea:

Describing entity, for example - a project

```
9 @XmlElement
10 @XmlType( propOrder={ "name", "identifier", "description", "homepage", "status", "public", "roles", "customFields", "createdOn", "updatedOn" } )
11 public class Project {
12
13     final public static int STATUS_ACTIVE = 1;
14     final public static int STATUS_ARCHIVE = 9;
15
16     private String name;
17     private String homepage;
18     private String identifier;
19     private String description;
20     private boolean is_public;
21     private int status;
22     private List<Role> roles;
23     private List<CustomField> customFields;
24     private String createdOn;
25     private String updatedOn;
26     /// etc....
```

In the same way describing entities Role and CustomField.

Projects list is described simply:

```
9 @XmlElement
10 @XmlSeeAlso({Project.class})
11 public class Projects extends ArrayList<Project> {
12
13     @XmlElement(name = "project")
14     public List<Project> getProjects() {
15         return this;
16     }
17 }
```

Instead of standard Redmine API, in my case it is possible to manage project roles and project status (archive/active)

All other job is done by Spring Rest Template, for example this is how we can get projects list:

```
Map<String, String> vars = new HashMap<String, String>();
69     vars.put("offset", "0");
70     vars.put("limit", "10");
71     Projects projects = restTemplate.getForObject("http://some.redminehost.net/projects.xml?offset={offset}&limit={limit}", Projects.class, vars);
72     return projects.getProjects();
```

Updating project:

```
String identifier = project.getIdentifier();
restTemplate.put("http://some.redminehost.net/projects/{identifier}.xml", project, identifier);
```

And so on for every redmine entity. Of course, this code is placed in separate class and covered with junit tests.

It would be great to generate this boilerplate code automatically.

#9 - 2024-09-23 18:36 - Holger Just

- *Status changed from New to Closed*

- *Resolution set to Wont fix*

The WADL standard seems to be mostly obsolete.

Also, maintaining such a description would be quite some undertaking given Redmine's API flexibility (which you can think of as either a positive or a negative). However, your use-case of even changing the generated description with plugins (and thus describing the changed fields and semantics) would introduce a whole lot of additional API interface and would effectively require a full rewrite in the way we currently generate API responses and accept data in controllers and models.

Thus, given the immense work required for that and the very limited number of possible consumers, I don't believe that this is not a worthwhile endeavor.