Seaside: A Glance at MetaData and REST

Damien Cassou, Stéphane Ducasse and Luc Fabresse

W4S10





Magritte: Taking Advantages of MetaData

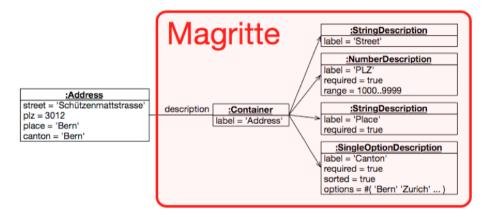
- Describe once
- Generate many times
- No more manually created forms
- Seaside component automatic generation

Address

:Address Address street = 'Schützenmattstrasse' street: String class plz = 3012plz: Integer place = 'Bern' place: String canton = 'Bern' canton: String



Address Description



Describe

```
Address >> descriptionStreet
 ^ MAStringDescription new
    autoAccessor: #street;
    label: 'Street':
   priority: 100
Address >> descriptionPlz
 ^ MANumberDescription new
    autoAccessor: #plz;
    priority: 200; label: 'PLZ';
    beRequired;
    min: 1000;
    max: 9999
```

Interpret

```
anAddress description do: [ :description |
    Transcript
    show: description label; show: ':'; tab;
    show: (description toString: (anAddress readUsing:
        description));
    cr ]
```

Street: Schutzenmattstrasse

PLZ: 3012 Place: Bern Canton: Bern

Generate Forms

self call: (anAddress asComponent addValidatedForm; yourself)

Street:	Schutzenmattstrasse	
PLZ:	3012	*
Place:	Bern	×
Canton:	Bern *	
Save	Cancel	

Generate Automatic Reports



Seaside-REST

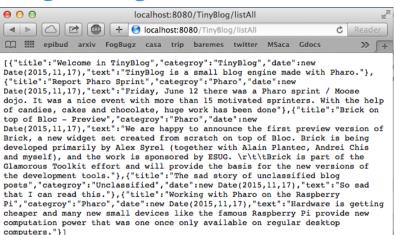
- Smooth and easy integration
- Annotation of domain objects
- Natural conversion

Filter Definition

```
WARestfulFilter subclass: #TBRestfulFilter instanceVariableNames: '' classVariableNames: '' package: 'TinyBlog—REST'
```

```
TBApplicationRootComponent class >> initialize
"self initialize"
| app |
app := WAAdmin register: self asApplicationAt: 'TinyBlog'.
app
addLibrary: JQDeploymentLibrary;
addLibrary: JQUiDeploymentLibrary;
addLibrary: TBSDeploymentLibrary.
app addFilter: TBRestfulFilter new.
```

Getting All Blogs



Getting All blogs

Finding a Blog



Finding a Blog

With Search

http://localhost:8080/TinyBlog/search?title=Welcome%20 in%20TinyBlog

Conclusion

- Seaside supports the other REST API (Delete, Post, Get,...)
- Seaside coupled with Magritte offers a really powerful combination
- REST is nicely integrated in Seaside-REST
- Have a look at Teapot for another REST solution

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