Creating an API with Expressive

Who?

Elton Minetto

Developer since 1997
Teacher since 2004
Co-founder at Coderockr since 2010
Zend Framework Evangelist
Author of http://bit.ly/zf2napratica and http://bit.ly/doctrinenapratica
@eminetto

API

What?

"[] a set of routines, protocols, and tools for building software applications. An API expresses a software component in terms of its operations, inputs, outputs, and underlying types []"

Wikipedia

Why?

Multiple interfaces (web, mobile, CLI)

Integration with internal services Sofware/Infrastructure as a Service (Amazon, Parse, Pusher, Filepicker, etc)

Example

RestBeer

API about **i** Multiple response formats (JSON, HTML)

http://restbeer.com/beer http://restbeer.com/style http://restbeer.com/beer/Guinness http://restbeer.com/beer/Heineken http://restbeer.com/style/Pilsen http://restbeer.com/style/Stout

Expressive

"Expressive allows you to write PSR-7 middleware applications for the web. It is a simple micro-framework built on top of Stratigility, providing:

Dynamic routing
Dependency injection via container-interop
Templating
Error Handling"

http://devzone.zend.com/6615/announcing-expressive/

Installing

composer.json

```
"require": {
    "zendframework/zend-expressive": "^0.1.0",
    "aura/router": "^2.3",
    "zendframework/zend-servicemanager": "^2.6"
}
```

Installing

```
curl -s http://getcomposer.org/installer | php
php composer.phar install
```

Show 💆

```
<?php
use Aura\Router\RouterFactory;
use Zend\Expressive\AppFactory;
use Zend\Expressive\Router\Aura as AuraBridge;
require 'vendor/autoload.php';
$auraRouter = (new RouterFactory())->newInstance();
$router = new AuraBridge($auraRouter);
$app = AppFactory::create(null, $router);
$beers = array(
    'brands' => array('Heineken', 'Guinness', 'Skol', 'Colorado'),
    'styles' => array('Pilsen' , 'Stout')
);
$app->get('/', function ($request, $response, $next) {
    $response->getBody()->write('Hello, beers of world!');
    return $response;
});
$app->get('/brand', function ($request, $response, $next) use ($beers) {
    $response->getBody()->write(implode(',', $beers['brands']));
    return $response;
});
$app->get('/style', function ($request, $response, $next) use ($beers) {
    $response->getBody()->write(implode(',', $beers['styles']));
    return $response;
});
$app->run();
```

Testing

php -S localhost:8080

Show a

```
$app->get('/beer{/id}', function ($request, $response,
$next) use ($beers) {
   $id = $request->getAttribute('id');
    if ($id == null) {
       $response->getBody()->write(
         implode(',', $beers['brands'])
         );
       return $response;
    }
    $key = array_search($id, $beers['brands']);
    if ($key === false) {
        $response->getBody()->write('Not found');
        return $response;
    }
    $response->getBody()->write($beers['brands'][$key]);
    return $response;
});
```

JSON!



Authentication

index.php

https://gist.github.com/eminetto/197e48af07ad75db0fc2

src\RestBeer\Auth.php

https://gist.github.com/eminetto/26a2e40f63fb4f1c7546

Add a



HTML and JSON!

```
"require": {
    "zendframework/zend-expressive": "^0.1.0",
    "aura/router": "^2.3",
    "zendframework/zend-servicemanager": "^2.6",
    "twig/twig": "*"
}
```

```
<!-- views/content.twig --> {% for c in content %} {{c}}<br/>
{w endfor %}
```

index.php https://gist.github.com/eminetto/4509a6cc5defe2b49d5a

src\RestBeer\Format.php https://gist.github.com/eminetto/88114420d9c2b57708f6

Links

http://zend-expressive.readthedocs.org/en/stable/https://github.com/zendframework/zend-stratigility

Contact

http://eltonminetto.net
@eminetto
eminetto@coderockr.com
http://asemanaphp.com.br
http://coderockr.com