Instalando

```
curl -s http://getcomposer.org/installer | p
hp
php composer.phar create-project zendframewo
rk/zend-expressive-skeleton restbeer
```

Escolher:

[3]

- Zend ServiceManager
- FastRoute
- Zend View
- Woops

Testando

```
cd restbeer
php -S localhost:8080 -t public
```

Modelos

Copiar o beers.db de http://cl.ly/2e473b2M2k1Z e salvar no diretório do projeto

```
cd restbeer
php ../composer.phar require zendframework/z
end-db
```

Escolher:

[1]

[y]

Criar o src/App/src/Model/Beer.php

```
<?php
namespace App\Model;

use Zend\InputFilter\InputFilter;

class Beer
{
   public $id;
   public $name;
   public $style;
   public $style;
   public $img;

   /**
   * Configura os filtros dos campos da cl</pre>
```

```
asse
     *
     * @return Zend\InputFilter\InputFilter
     */
   public function getInputFilter()
    {
        $inputFilter = new InputFilter();
        $inputFilter->add([
            'name' => 'id',
            'required' => false,
            'filters' => [
                ['name' => 'Int'],
            1,
        1);
        $inputFilter->add([
            'name' => 'name',
            'required' => true,
            'filters' => [
                ['name' => 'StripTags'],
                ['name' => 'StringTrim'],
            1,
            'validators' => [
                    'name' => 'StringLeng
```

'options' => [

'encoding' => 'UTF-8

th',

```
'min' => 1,
                        'max'
                              => 100,
                    ],
                ],
            ],
        ]);
        $inputFilter->add([
            'name' => 'style',
            'required' => true,
            'filters' => [
               ['name' => 'StripTags'],
                ['name' => 'StringTrim'],
            1,
            'validators' => [
                'name' => 'StringLeng
th',
                    'options' => [
                        'encoding' => 'UTF-8
                        'min' => 1,
                        'max' => 100,
                    ],
                ],
            1,
        ]);
```

Configurando

Criar o config/autoload/db.global.php e incluir:

Alterar o config/autoload/dependencies.global.php e incluir:

Criar o src/App/src/Factory/Db/Adapter/Adapter.php com:

```
<?php
namespace App\Factory\Db\Adapter;</pre>
```

```
use Interop\Container\ContainerInterface;
use Zend\Db\Adapter\Adapter as ZendAdapter;

class Adapter
{
    public function __invoke(ContainerInterf ace $container)
    {
        $config = $container->get('config');
        return new ZendAdapter($config['db']);
    }
}
```

Crud de cervejas

Configurar as rotas

No config/routes.php:

```
<?php

$app->get('/', App\Action\HomePageAction::cl
ass, 'home');
$app->get('/api/ping', App\Action\PingAction
::class, 'api.ping');
```

```
$app->get('/beer', App\Action\Beer\Index::cl
ass, 'beer.index');
$app->get('/beer/{id}', App\Action\Beer\View
::class, 'beer.view');
$app->post('/beer', App\Action\Beer\Create::
class, 'beer.create');
$app->put('/beer/{id}', App\Action\Beer\Upda
te::class, 'beer.update');
$app->delete('/beer/{id}', App\Action\Beer\D
elete::class, 'beer.delete');
```

Adicionar as classes em config/autoload/dependencies.global.php, dentro do array de factories:

```
App\Action\HomePageAction::class => App\Acti
on\HomePageFactory::class,
App\Action\Beer\Index::class => App\Factory\
Action\Beer::class,
App\Action\Beer:\Update::class => App\Factory
\Action\Beer::class,
App\Action\Beer\Create::class => App\Factory
\Action\Beer::class,
App\Action\Beer\Create::class => App\Factory
\Action\Beer::class,
App\Action\Beer\Delete::class => App\Factory
\Action\Beer::class,
```

Criar a factory

Criar o src/App/src/Factory/Action/Beer.php

```
<?php
namespace App\Factory\Action;
use Interop\Container\ContainerInterface;
use Zend\Db\TableGateway\TableGateway;
class Beer
{
    public function invoke(ContainerInterf
ace $container, $requestedName)
    {
        $adapter = $container->get('App\Fact
ory\Db\Adapter\Adapter');
        $tableGateway = new TableGateway('be
er', $adapter);
        return new $requestedName($tableGate
way);
}
```

Criar as actions

Criar o src/App/src/Action/Beer/Index.php

```
<?php
namespace App\Action\Beer;
use Interop\Http\ServerMiddleware\DelegateIn
terface;
use Psr\Http\Message\ServerRequestInterface;
use Interop\Http\ServerMiddleware\Middleware
Interface:
class Index implements MiddlewareInterface
{
    private $tableGateway;
    public function construct($tableGatewa
y)
    {
        $this->tableGateway = $tableGatewa
У;
    }
    public function process(ServerRequestInt
erface $request, DelegateInterface $delegate
```

Criar o src/App/src/Action/Beer/Create.php

```
<?php

namespace App\Action\Beer;

use Interop\Http\ServerMiddleware\DelegateIn
terface;
use Psr\Http\Message\ServerRequestInterface;
use Interop\Http\ServerMiddleware\Middleware
Interface;

class Create implements MiddlewareInterface
{
    private $tableGateway;</pre>
```

```
public function construct($tableGatewa
y)
    {
        $this->tableGateway = $tableGatewa
У;
    }
    public function process(ServerRequestInt
erface $request, DelegateInterface $delegate
    {
        $data = $request->getParsedBody();
        $this->tableGateway->insert($data);
        return $delegate->process(
            $request->withParsedBody(['id' =
> $this->tableGateway->getLastInsertValue()]
)
        )->withStatus(201);
    }
}
```

Criar o src/App/src/Action/Beer/Update.php

```
<?php
```

```
namespace App\Action\Beer;
use Interop\Http\ServerMiddleware\DelegateIn
terface;
use Psr\Http\Message\ServerRequestInterface;
use Interop\Http\ServerMiddleware\Middleware
Interface;
class Update implements MiddlewareInterface
{
    private $tableGateway;
    public function construct($tableGatewa
y)
    {
        $this->tableGateway = $tableGatewa
У;
    }
    public function process(ServerRequestInt
erface $request, DelegateInterface $delegate
)
    {
        $id = $request->getAttribute('id');
        $beer = $this->tableGateway->select(
['id' => $id]);
        if (count($beer) == 0) {
            return $delegate->process($reque
st)
```

Criar o src/App/src/Action/Beer/Delete.php

```
<?php

namespace App\Action\Beer;

use Interop\Http\ServerMiddleware\DelegateIn
terface;
use Psr\Http\Message\ServerRequestInterface;
use Interop\Http\ServerMiddleware\Middleware
Interface;</pre>
```

```
class Delete implements MiddlewareInterface
{
    private $tableGateway;
    public function construct($tableGatewa
у)
    {
        $this->tableGateway = $tableGatewa
У;
    }
    public function process(ServerRequestInt
erface $request, DelegateInterface $delegate
    {
        $id = $request->getAttribute('id');
        $beer = $this->tableGateway->select(
['id' => $id]);
        if (count($beer) == 0) {
            return $delegate->process($reque
st)
                                ->withStatus(
404);
        }
        $this->tableGateway->delete(['id' =>
 $id]);
        return $delegate->process($request)
```

```
->withStatus(204);
}
```

Serialização

Alterar o config/pipeline.php

```
<?php
use Zend\Expressive\Helper\ServerUrlMiddlewa
re;
    Zend\Expressive\Helper\UrlHelperMiddlewa
re;
use Zend\Expressive\Middleware\ImplicitHeadM
iddleware:
use Zend\Expressive\Middleware\ImplicitOptio
nsMiddleware:
use Zend\Expressive\Middleware\NotFoundHandl
er;
use Zend\Stratigility\Middleware\ErrorHandle
r;
$app->pipe(ErrorHandler::class);
$app->pipe(ServerUrlMiddleware::class);
$app->pipeRoutingMiddleware();
$app->pipe(ImplicitHeadMiddleware::class);
```

```
$app->pipe(ImplicitOptionsMiddleware::class);
$app->pipe(UrlHelperMiddleware::class);
$app->pipeDispatchMiddleware();
$app->pipe(App\Middleware\Format\Json::class);
$app->pipe(App\Middleware\Format\Html::class);
$app->pipe(App\Middleware\Format\Html::class);
```

e config/autoload/dependencies.global.php

```
'dependencies' => [
    'invokables' => [
        App\Middleware\Format\Json::class =>
App\Middleware\Format\Json::class,
        ],
        'factories' => [
             App\Middleware\Format\Html::class =>
App\Factory\Middleware\Format\Html::class
        ],
],
```

Criar o src/App/src/Middleware/Format/Json.php

```
<?php
namespace App\Middleware\Format;
use Interop\Http\ServerMiddleware\DelegateIn
terface;
use Psr\Http\Message\ServerRequestInterface;
use Interop\Http\ServerMiddleware\Middleware
Interface:
use Zend\Diactoros\Response\JsonResponse;
class Json implements MiddlewareInterface
{
    public function process(ServerRequestInt
erface $request, DelegateInterface $delegate
)
    {
        $content = $request->getParsedBody()
•
        $header = $request->getHeader('accep
t');
        $accept = null;
        if (isset($header[0])) {
            $accept = $header[0];
        }
        if (!$accept || $accept != 'applicat
ion/json') {
                return $delegate->process($r
equest);
```

```
return new JsonResponse($content);
}
```

Criar o src/App/src/Factory/Middleware/Format/Html.php

```
<?php
namespace App\Factory\Middleware\Format;
use Interop\Container\ContainerInterface;
use Zend\Expressive\Template\TemplateRendere
rInterface;
use App\Middleware\Format\Html as HtmlMiddle
ware;
class Html
{
    public function invoke(ContainerInterf
ace $container)
        return new HtmlMiddleware($container
->get(TemplateRendererInterface::class));
    }
}
```

```
php ../composer.phar require zendframework/z
end-expressive-zendviewrenderer
```

Criar o src/App/src/Middleware/Format/Html

```
<?php
namespace App\Middleware\Format;
use Interop\Http\ServerMiddleware\DelegateIn
terface;
use Psr\Http\Message\ServerRequestInterface;
use Interop\Http\ServerMiddleware\Middleware
Interface:
use Zend\Expressive\Template\TemplateRendere
rInterface;
use Zend\Diactoros\Response\HtmlResponse;
class Html implements MiddlewareInterface
{
    private $template;
    public function construct($template)
    {
        $this->template = $template;
```

Criar src/App/templates/beer/index.phtml

```
    <thead>
        #
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```

Adicionar os templates em src/App/src/ConfigProvider.php

Validando

Instalar o zend-validator e o zend-filter

```
php ../composer.phar require zendframework/z
end-validator zendframework/zend-filter zend
framework/zend-inputfilter
```

Criar o src/App/src/Middleware/Validate.php

```
<?php

namespace App\Middleware;

use Interop\Http\ServerMiddleware\DelegateIn
terface;
use Psr\Http\Message\ServerRequestInterface;
use Interop\Http\ServerMiddleware\Middleware
Interface;</pre>
```

```
use Zend\Diactoros\Response\JsonResponse;
use App\Model\Beer;
class Validate implements MiddlewareInterfac
e
{
    public function process(ServerRequestInt
erface $request, DelegateInterface $delegate
    {
        $beer = new Beer;
        $inputFilter = $beer->getInputFilter
();
        $inputFilter->setData($this->parseBo
dy($request));
        if (!$inputFilter->isValid()) {
            errors = [];
            foreach ($inputFilter->getMessag
es() as $key => $values) {
                $messages = [];
                foreach ($values as $message
) {
                     $messages[] = $message;
                }
                $errors[] = [
                     'input' => $key,
                     'messages' => $messages,
                ];
            }
```

```
throw new \Exception("Error Proc
essing Request", 422);
        return $delegate->process($request);
    }
    private function parseUri($request)
    {
        return substr($request->getUri()->ge
tPath(), 0, 5);
    }
    private function parseBody($request)
    {
        switch ($request->getMethod()) {
            case 'POST':
                return $request->getParsedBo
dy();
                break;
            case 'PUT':
                parse_str(file_get_contents(
"php://input"),$data);
                return $data;
                break;
        }
        return [];
    }
```

```
}
```

Alterar o dependencies.global.php e colocar no invokables

```
App\Middleware\Validate::class => App\Middle
ware\Validate::class,
```

e colocar o middleware no config.pipeline.php

```
<?php
use Zend\Expressive\Helper\ServerUrlMiddlewa
re;
    Zend\Expressive\Helper\UrlHelperMiddlewa
re;
use Zend\Expressive\Middleware\ImplicitHeadM
iddleware;
use Zend\Expressive\Middleware\ImplicitOptio
nsMiddleware;
use Zend\Expressive\Middleware\NotFoundHandl
er;
use Zend\Stratigility\Middleware\ErrorHandle
r;
$app->pipe(ErrorHandler::class);
$app->pipe(ServerUrlMiddleware::class);
```

```
$app->pipeRoutingMiddleware();
$app->pipe(ImplicitHeadMiddleware::class);
$app->pipe(ImplicitOptionsMiddleware::class);
$app->pipe(UrlHelperMiddleware::class);
$app->pipe(App\Middleware\Validate::class);
$app->pipeDispatchMiddleware();
$app->pipe(App\Middleware\Format\Json::class);
$app->pipe(App\Middleware\Format\Html::class);
$app->pipe(App\Middleware\Format\Html::class);
$app->pipe(App\Middleware\Format\Html::class);
```

Authenticação

Criar o src/App/src/Middleware/Auth.php

```
<?php
namespace App\Middleware;

use Interop\Http\ServerMiddleware\DelegateIn
terface;
use Psr\Http\Message\ServerRequestInterface;
use Interop\Http\ServerMiddleware\Middleware
Interface;
use Zend\Diactoros\Response\JsonResponse;</pre>
```

```
class Auth implements MiddlewareInterface
{
    public function process(ServerRequestInt
erface $request, DelegateInterface $delegate
    {
        if(! $request->hasHeader('authorizat
ion')){
            return $response->withStatus(401
);
        }
           (!$this->isValid($request)) {
            return $response->withStatus(403)
);
        }
        return $delegate->process($request);
    }
    private function isValid(ServerRequestIn
terface $request)
    {
        $token = $request->getHeader('author
ization');
        //validar o token de alguma forma...
        return true;
    }
}
```

Adicionar em config/pipeline.php

```
$app->pipe(App\Middleware\Auth::class);
$app->pipe(App\Middleware\Validate::class);
$app->pipeDispatchMiddleware();
```

Desta forma todas as rotas vão executar primeiro este Middleware

Trabalho