PSR: standardising HTTP

Sergej Kurakin

Oberlo

shopify

We have 3 PSRs

- PSR-7: HTTP Message Interfaces
- PSR-15: HTTP Handlers
- PSR-17: HTTP Factories

PSR-7

Accepted on 19th of May, 2015.

Describes HTTP Message Interfaces.

Namespace:
\Psr\Http\Message

MessageInterface

RequestInterface

ServerRequestInterface

ResponseInterface

StreamInterface

UriInterface

UploadedFileInterface

Why?

Solid, well known
abstractions.

Used in around 1900 open source projects

https://packagist.org/packages/psr/http-message/dependents

Independent from HTTP Library implementation.

Less different libraries to learn.

Message Immutability

Library would be compatible with “right” created software.

PSR-15

Accepted on 22nd of January, 2018

Describes HTTP Server Request Handlers

Namespace:
\Psr\Http\Server

RequestHandlerInterface

```
public
function
handle (
    ServerRequestInterface
    $request
): ResponseInterface;
```

MiddlewareInterface

```
public
function
process (
    ServerRequestInterface
    $request,
    RequestHandlerInterface
    $handler
): ResponseInterface;
```

Why?

Solid reasonable
abstraction.

Used in around 400 open source projects

https://packagist.org/packages/psr/http-server-handler/dependents
https://packagist.org/packages/psr/http-server-middleware/dependents

Handlers focus on doing only one thing good.

Middlewares are just handy.

I hope frameworks will move towards Handlers.

PSR-17

Accepted on 31th of July, 2018

Describes HTTP Factories

Namespace:
\Psr\Http\Message

RequestFactoryInterface

ResponseFactoryInterface

ServerRequestFactoryInterface

StreamFactoryInterface

UploadedFileFactoryInterface

UriFactoryInterface

Used in around 40 open source projects

https://packagist.org/packages/psr/http-factory/dependents

Why?

Reasonable abstraction.

Independent from HTTP library implementation.

PSR-18

Describes HTTP Client Interface

Namespace:
\Psr\Http\Client

ClientInterface

```
public
function
sendRequest (
    RequestInterface
   $request
): ResponseInterface;
```

ClientException

RequestException

NetworkException

Still in review.

Notes

You can use good parts even if your framework does not support it.

Handlers -> Controller with one Action

Use HTTP Message Interfaces.

What do you think?

Links

https://www.php-fig.org/
https://www.php-fig.org/psr/psr-7/
https://www.php-fig.org/psr/psr-15/
https://www.php-fig.org/psr/psr-17/
https://github.com/php-fig/fig-standards/tree/master/proposed/http-client/
https://github.com/middlewares/awesome-psr15-middlewares

Thanks!

Oberlo

shopify