SEPTEMBER 19 -20, 2024 - LILLE, FRANCE & ONLINE

API PLATFORM CONFERENCE

Une documentation d'API "aux petits oignons"

Les-Tilleuls.coop

@coopTilleuls

contact@les-tilleuls.coop

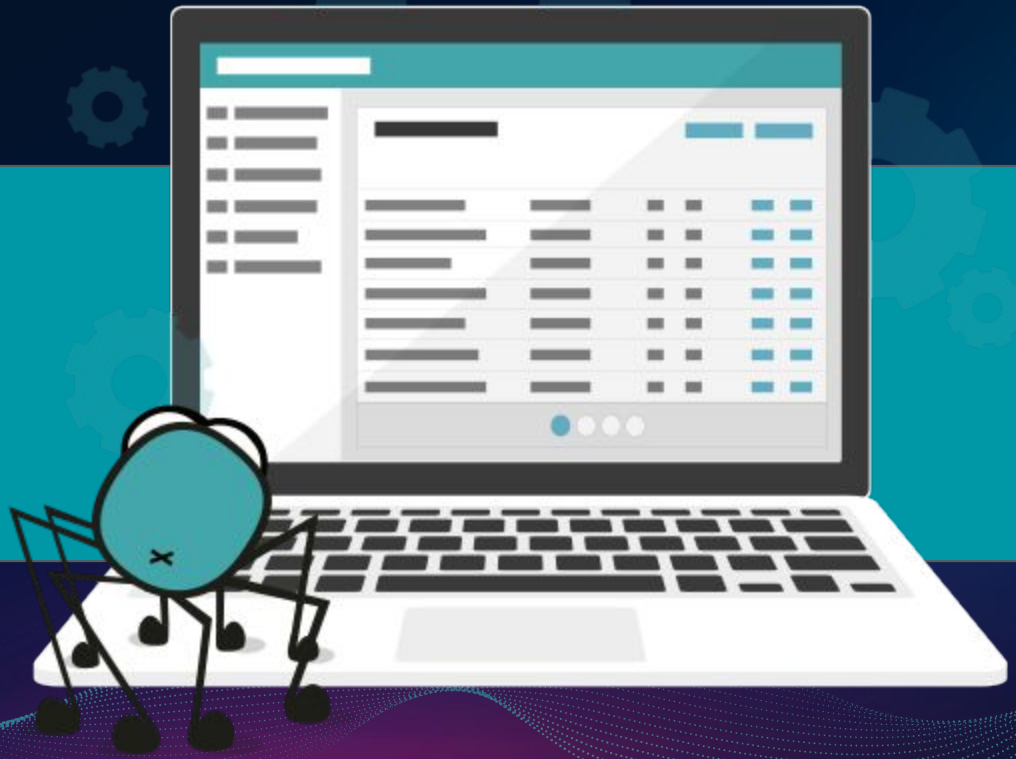
- ✔ **Développement** : PHP, JavaScript, Go, Rust...
- ✔ DevOps & **SRE**
- ✔ Audit**, consulting,** et TMA
- ✔ Gestion de projet **Agile**, **UX/UI**
- ✔ **API Platform, FrankenPHP, Mercure, Vulcain**

API PLATFORM CONFERENCE

API Platform

- ✔ Framework API-first
- ✔ Basé sur Symfony (nouveau support de Laravel)
- ✔ API REST (RDF) ou GraphQL “à l’état de l’art”
- ✔ Documentation automatique OpenAPI, SwaggerUI, GraphiQL
- ✔ Support des standards et formats JSON-LD, Hydra, JSON:API
- ✔ Interface d’admin
- ✔ Génération de client frontend (Next/React, Nuxt/Vue, Angular, TypeScript…)
- ✔ Schema Generator

Documenter son API



API Platform c'est comme le vélo...

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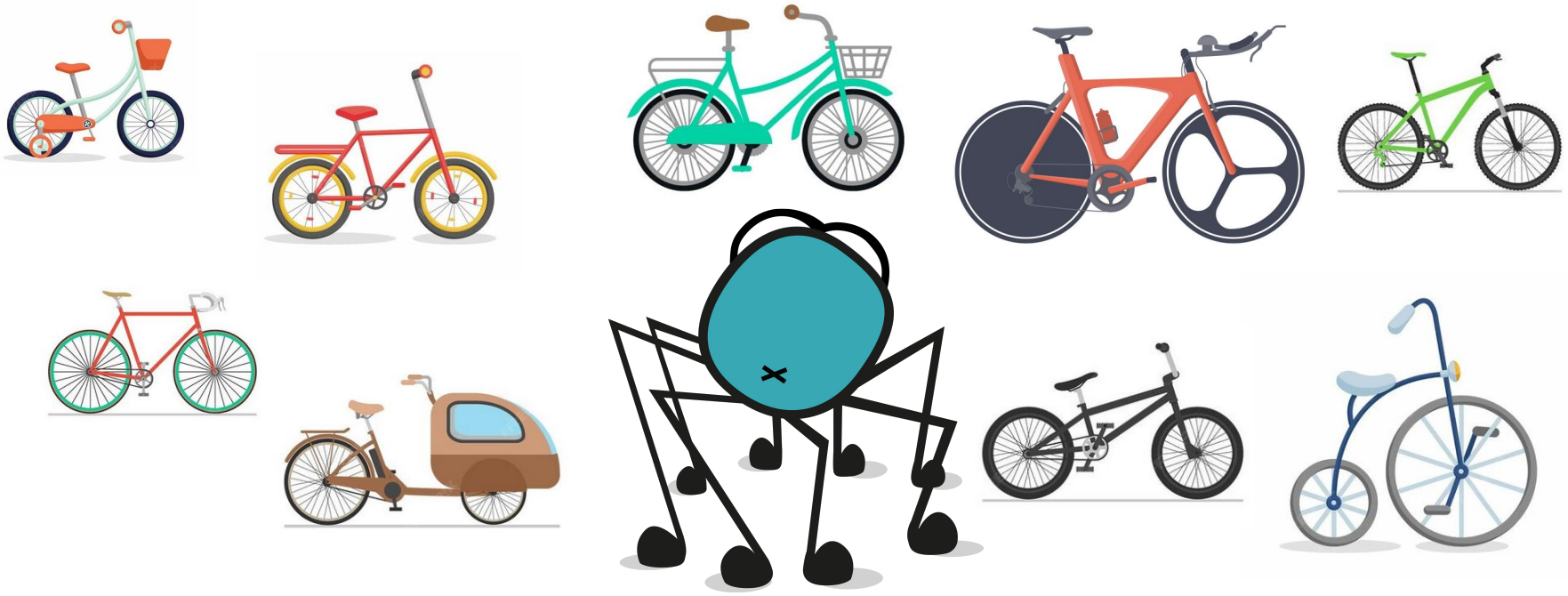
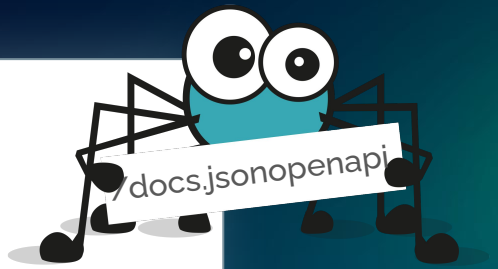


Spécifier son API

"out of the box"

OpenAPI

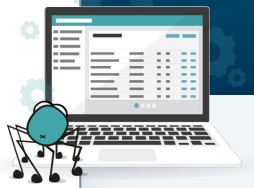


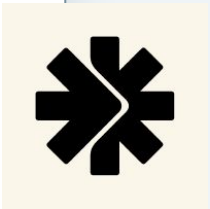

```
{
  "openapi": "3.1.0",
  "info": {
    "title": "API Title",
    "version": "1.0.0"
  },
  "servers": [
    {
      "url": "https://api.example.com"
    }
  ],
  "paths": {
    "/example": {
      "get": {}
    }
  },
  "components": {
    "schemas": {}
  },
  "security": [],
  "tags": [],
  "externalDocs": {}
}
```

OpenAPI

```
{
  "openapi": "3.1.0",
  "info": {
    "title": "API Title",
    "version": "1.0.0"
  },
  "servers": [
    {
      "url": "https://api.example.com"
    }
  ],
  "paths": {
    "/example": {
      "get": {}
    }
  },
  "components": {
    "schemas": {}
  },
  "security": [],
  "tags": [],
```

```
$ php bin/console api:openapi:export
```





Swagger UI

Hello API Platform 1.0.0 OAS 3.1

Servers
/

Authorize

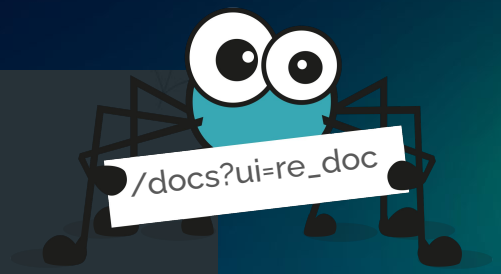
Bike

GET	/bikes	Retrieves the collection of Bike resources.
POST	/bikes	Creates a Bike resource.
GET	/bikes/{id}	Retrieves a Bike resource.
PUT	/bikes/{id}	Replaces the Bike resource.
DELETE	/bikes/{id}	Removes the Bike resource.
PATCH	/bikes/{id}	Updates the Bike resource.

Cyclist

GET	/cyclists	Retrieves the collection of Cyclist resources.
POST	/cyclists	Creates a Cyclist resource.
GET	/cyclists/{id}	Retrieves a Cyclist resource.
PUT	/cyclists/{id}	Replaces the Cyclist resource.
DELETE	/cyclists/{id}	Removes the Cyclist resource.
PATCH	/cyclists/{id}	Updates the Cyclist resource.

ReDoc



Search...

- Bike
- Cyclist
- Event
- RepairShop
- Sponsor
- Track
- WeatherReport

Hello API Platform (1.0.0)

Download OpenAPI specification: Download

Bike

Retrieves the collection of Bike resources.

Retrieves the collection of Bike resources.

QUERY PARAMETERS

page — integer
Default: 1
The collection page number

Responses

> 200

Bike collection

GET /bikes

Response samples

200

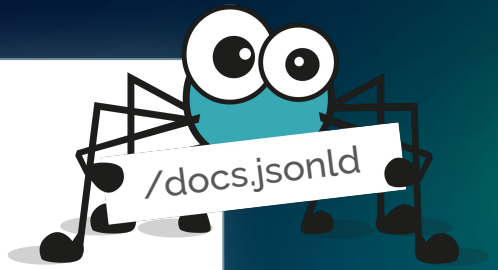
Content type
application/ld+json

Copy Expand all Collapse all


```
{
 - "hydra:member": [
    + { … }
   ],
   "hydra:totalItems": 0,
 - "hydra:view": {
      "@id": "string",
      "type": "string",
      "hydra:first": "string",
      "hydra:last": "string",
      "hydra:previous": "string",
      "hydra:next": "string"
   },
 - "hydra:search": {
      "@type": "string",
      "hydra:template": "string",
      "hydra:variableRepresentation": "string",
    + "hydra:mapping": [ … ]
   }
}
```

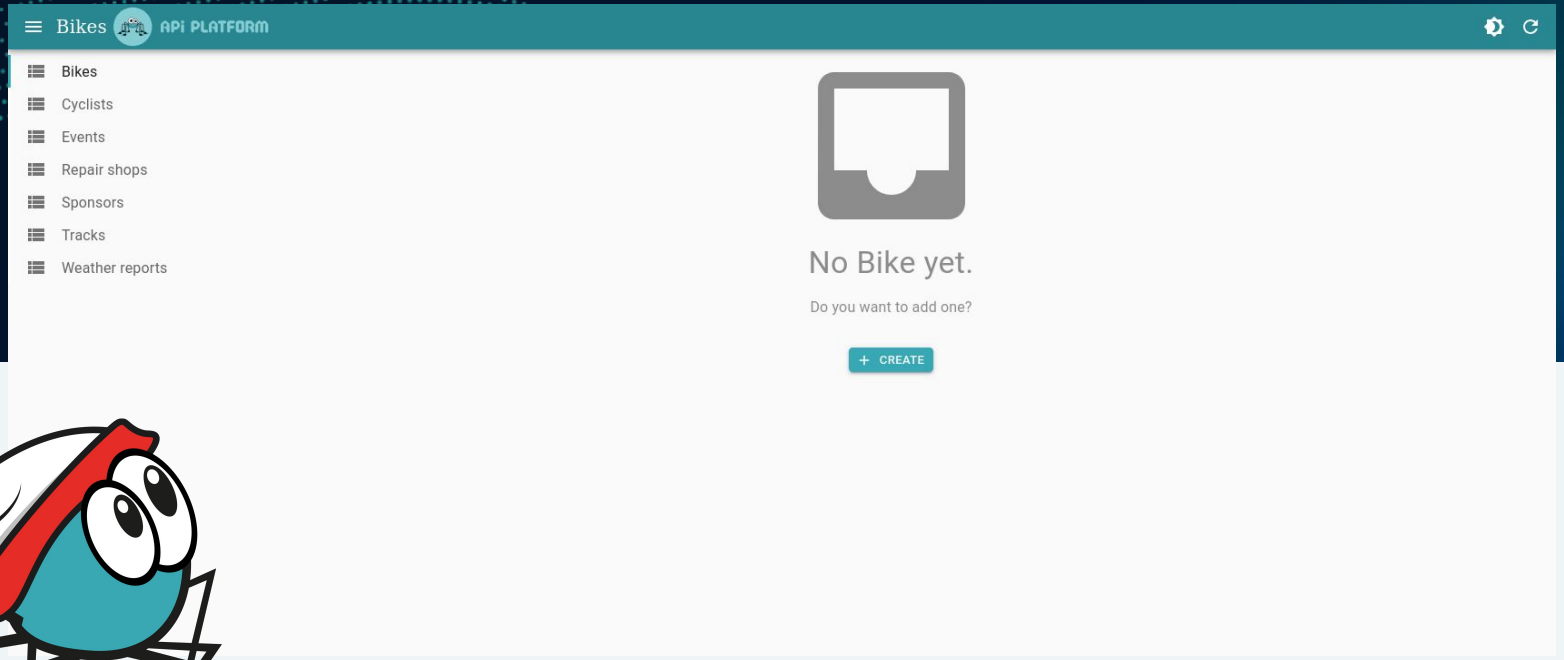

PLATFORM CONFERENCE

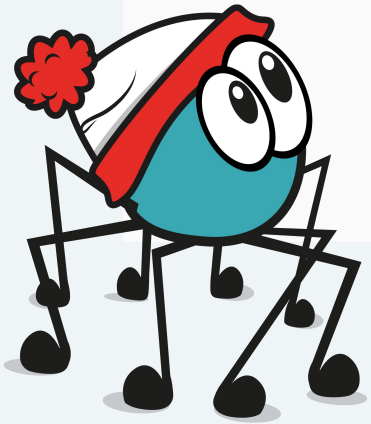
Hydra




```
{
  "@context": {
    "@vocab": "https://localhost/docs.jsonld#",
    "hydra": "http://www.w3.org/ns/hydra/core#",
    "rdf": "http://www.w3.org/1999/02/22-rdf-syntax-ns#",
    "rdfs": "http://www.w3.org/2000/01/rdf-schema#",
    "xmls": "http://www.w3.org/2001/XMLSchema#",
    "owl": "http://www.w3.org/2002/07/owl#",
    "schema": "https://schema.org/",
    ...
  },
  "@id": "/docs.jsonld",
  "@type": "hydra:ApiDocumentation",
  "hydra:title": "BikeHub API",
  "hydra:description": "BikeHUB est une API qui regroupe une communauté de cyclistes...",
  "hydra:entrypoint": "/",
  "hydra:supportedClass": [
    {
      "@id": "#Bike",
      "@type": "hydra:Class",
      "hydra:title": "Bike",
      "hydra:supportedProperty": [
        {
          "@type": "hydra:SupportedProperty",
          "hydra:property": { "@id": "#Bike/brand" ...},
          "hydra:title": "brand",
          "hydra:required": false,
          "hydra:readable": true,
          "hydra:writeable": true
        },
```

API Platform Admin





API PLATFORM CONFERENCE

API PLATFORM ADMIN: THE ULTIMATE ADMIN GENERATOR

FRANCOIS ZANINOTTO

CEO @ MARMELAB

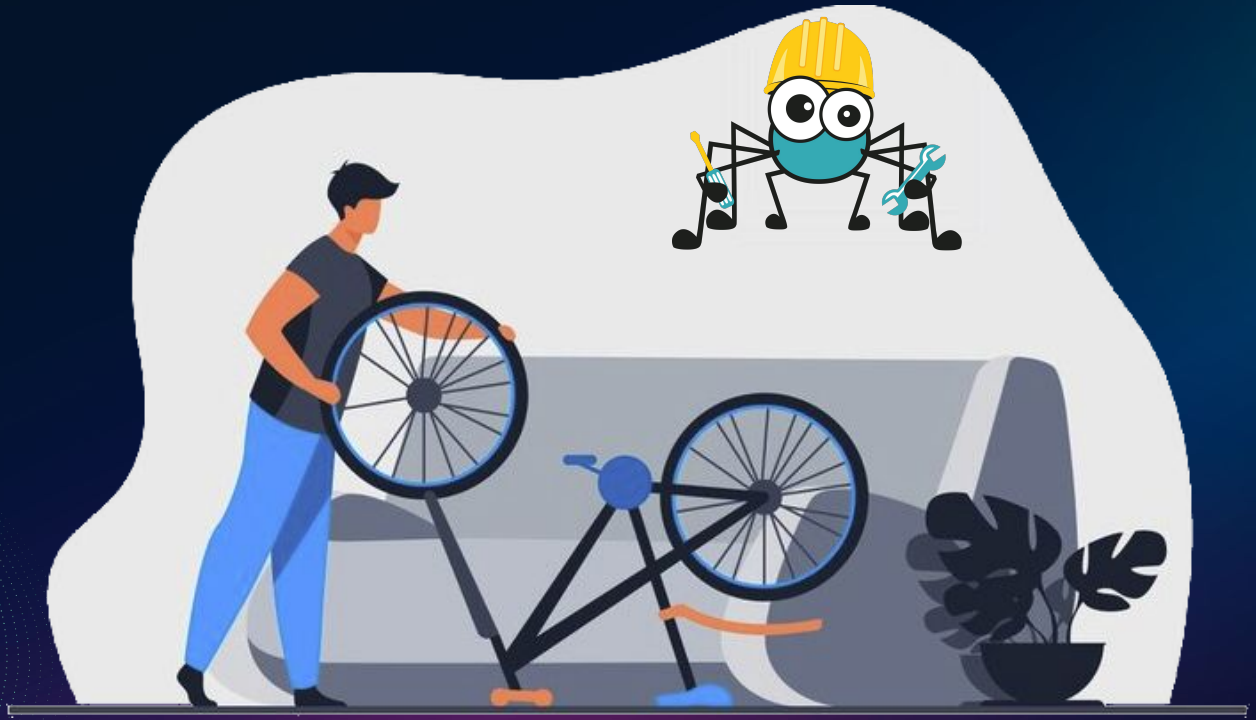
@francoisz

API PLATFORM CONFERENCE 2024

SEP 19-20, 2024 | LILLE

API-PLATFORM.COM/CON

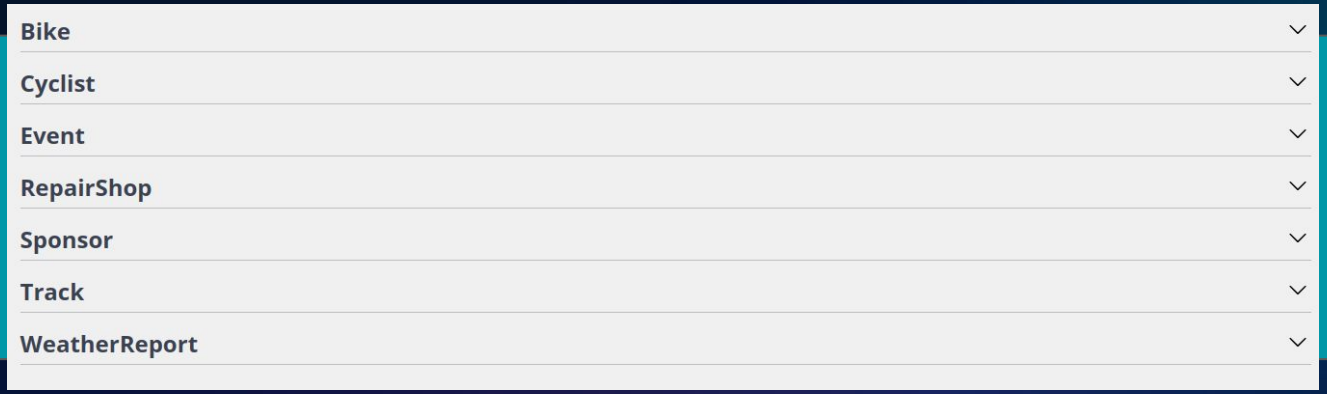
Configurer sa doc



La config globale

```yaml
# api/config/packages/api_platform.yaml
api_platform:
    title: BikeHub API
    description: 'BikeHub est une API qui gère une communauté de cyclistes'
    version: '1.0.0'

    openapi:
        contact:
            name: 'BikeHub'
            url: 'https://xxxxxx.com'
            email: 'contact@xxxxxx.com'
        termsOfService: '/cgv'
        license:
            name: 'xxx'
            url: 'https://xxxxxx.com'

        swagger_ui_extra_configuration:
            docExpansion: 'none'
            filter: false
```

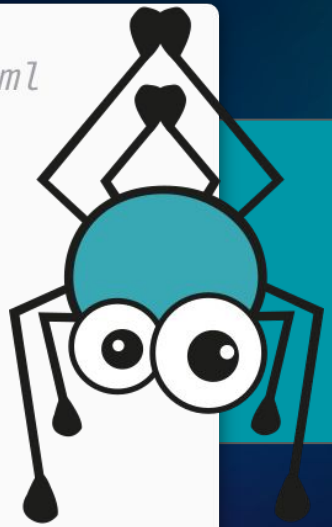
Swagger UI - docExpansion



Swagger UI - Filter

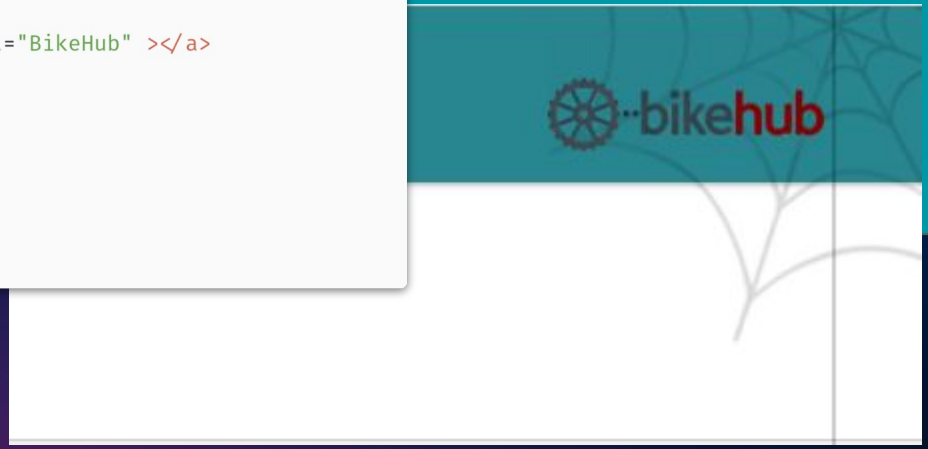
Activer/désactiver les fonctionnalités

```yaml
# api/config/packages/api_platform.yaml
api_platform:
    show_webby: true
    enable_swagger: true
    enable_swagger_ui: true
    enable_re_doc: true
    enable_entrypoint: true
    enable_docs: true
    asset_package: null
```



Surcharger le template UI

```twig
<!DOCTYPE html>
<html>
<head>
   ...
</head>

<body>
{% block header %}
  <header>
    <a id="logo" href="/"><img src="{{ asset('img/logo.webp') }}" alt="BikeHub" ></a>
  </header>
{% endblock %}
...
<div id="swagger-ui" class="api-platform"></div>
...
</body>
</html>
```



Changer l'URL de l'UI

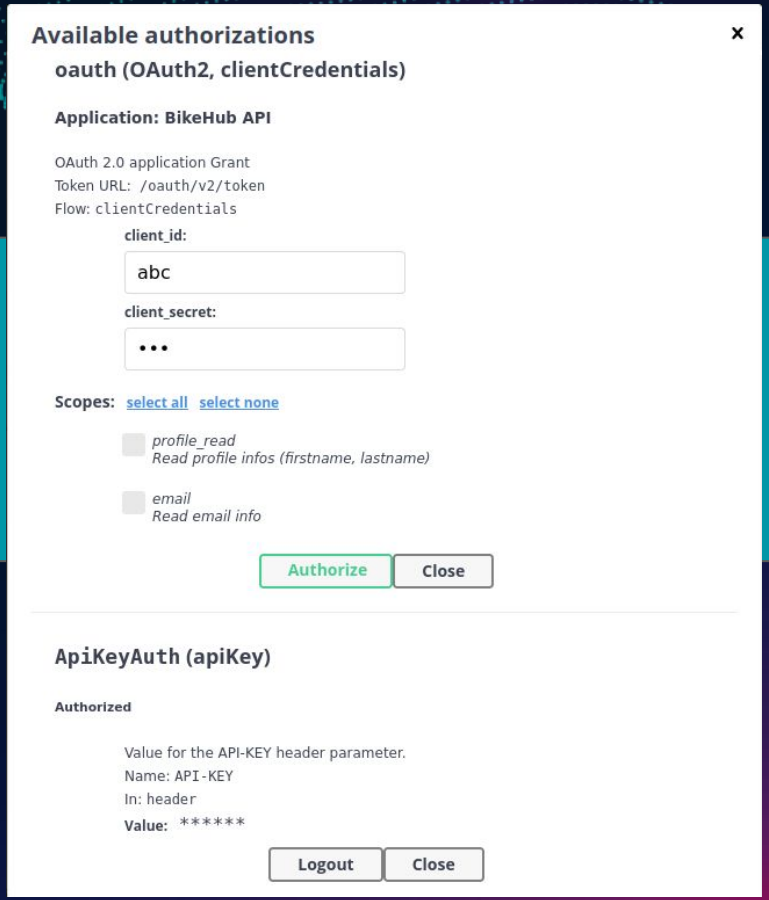
```yaml
# app/config/routes.yaml
api_doc:
    path: /api_documentation
    controller: api_platform.swagger_ui.action
```

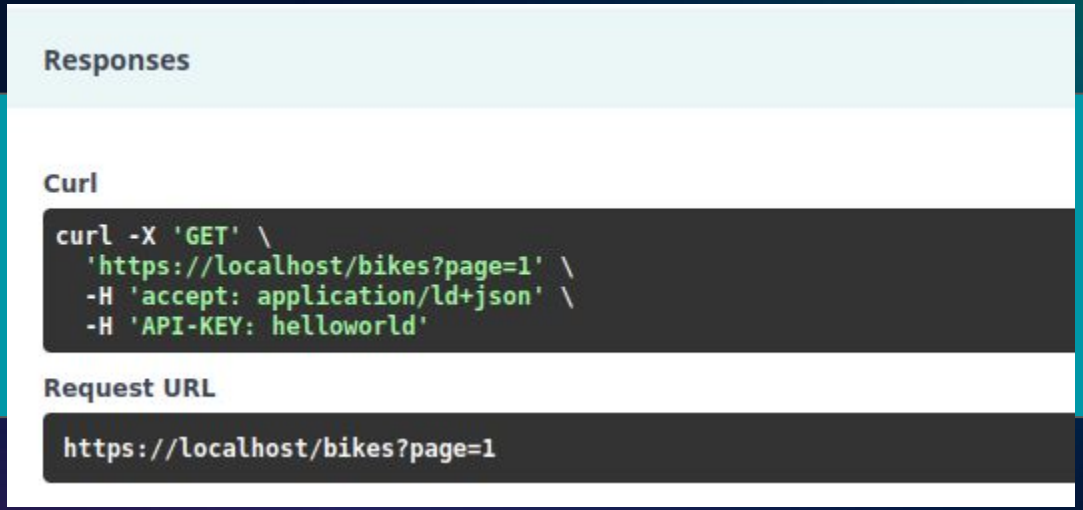
```
@pwa expression `(
    header({'Accept': '*text/html*'})
    && !path(
        '/docs*', '/graphql*', '/bundles*', '/contexts*', '/_profiler*', '/_wdt*',
        '/api_documentation*',
        '*.json*', '*.html', '*.csv', '*.yml', '*.yaml', '*.xml'
    )
)
|| path('/favicon.ico', '/manifest.json', '/robots.txt', '/sitemap*', '/_next*', '/__next*')
|| query({'_rsc': '*'})`
```

Configurer l'authentification

```yaml
# api/config/packages/api_platform.yaml
api_platform:
    oauth:
        enabled: true
        clientId: 'abc'
        clientSecret: 'def'
        type: 'oauth2'
        flow: 'application'
        tokenUrl: '/oauth/v2/token'
        authorizationUrl: '/oauth/v2/auth'
        scopes:
            profile_read: "Read profile infos (firstname, lastname)"
            email: "Read email info"

    swagger:
        api_keys:
            ApiKeyAuth:
                name: 'API-KEY'
                type: 'header'
```

Configurer l'authentification

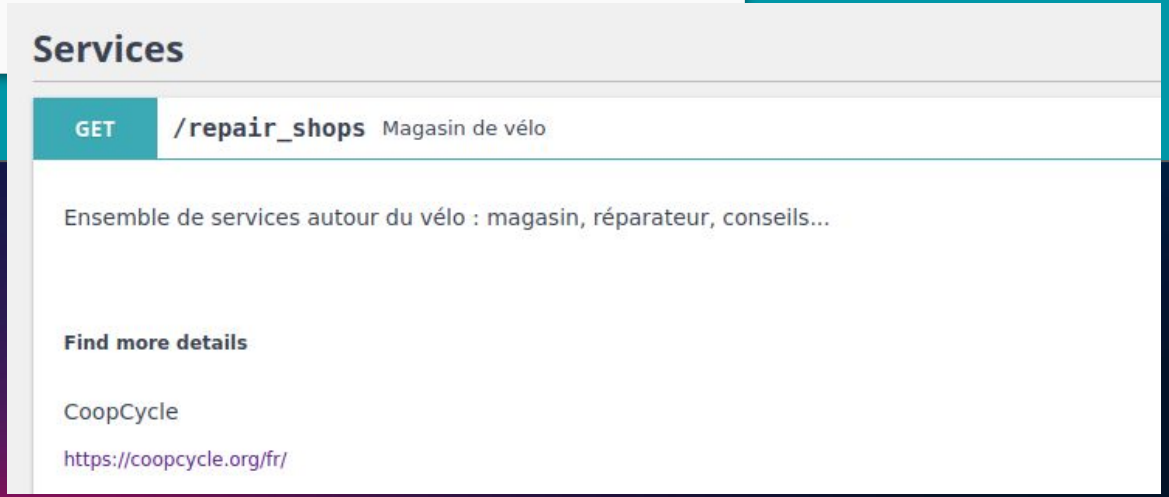




API PLATFORM CONFERENCE

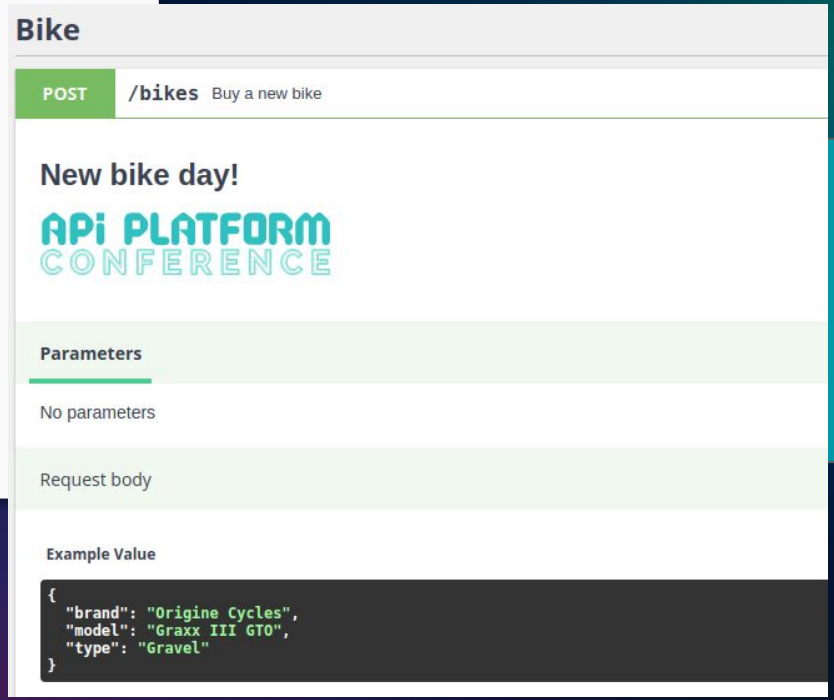
Configurer une ressource

```php
use ApiPlatform\OpenApi\Model;

#[ApiResource(
    description: 'Magasin de vélo',
    openapi: new Model\Operation(
        tags: ['Services'],
        summary: 'Magasin de vélo',
        description: 'Ensemble de services autour du vélo : magasin, réparateur, conseils … ',
        externalDocs: new Model\ExternalDocumentation('CoopCycle', 'https://coopcycle.org/fr/')
    ),
)]
class RepairShop
```



Configurer une opération

```php
#[ApiResource]
#[Post(openapi: new Model\Operation(
    summary: 'Buy a new bike',
    description: "# New bike day!\n\n<img height='50px' src='https://api-platform.com/images/con/logo.svg' alt='New bike day' />",
    requestBody: new Model\RequestBody(
        content: new \ArrayObject([
            'application/json' => [
                'example' => [
                    'brand' => 'Origine Cycles',
                    'model' => 'Graxx III GTO',
                    'type' => 'Gravel',
                ]
            ]
        ])
    )
))]
```



API PLATFORM CONFERENCE

Configurer une opération

```php
#[ApiResource(
    operations: [
        new Get(),
        new GetCollection(openapi: false),
        new Post(denormalizationContext: [
           'groups' => 'bike:create',
           'openapi_definition_name' => 'Buy'
         ]),
        // "$ref": "#/components/schemas/Bike.jsonld-Buy"
    ]
)]
class Bike {}
```

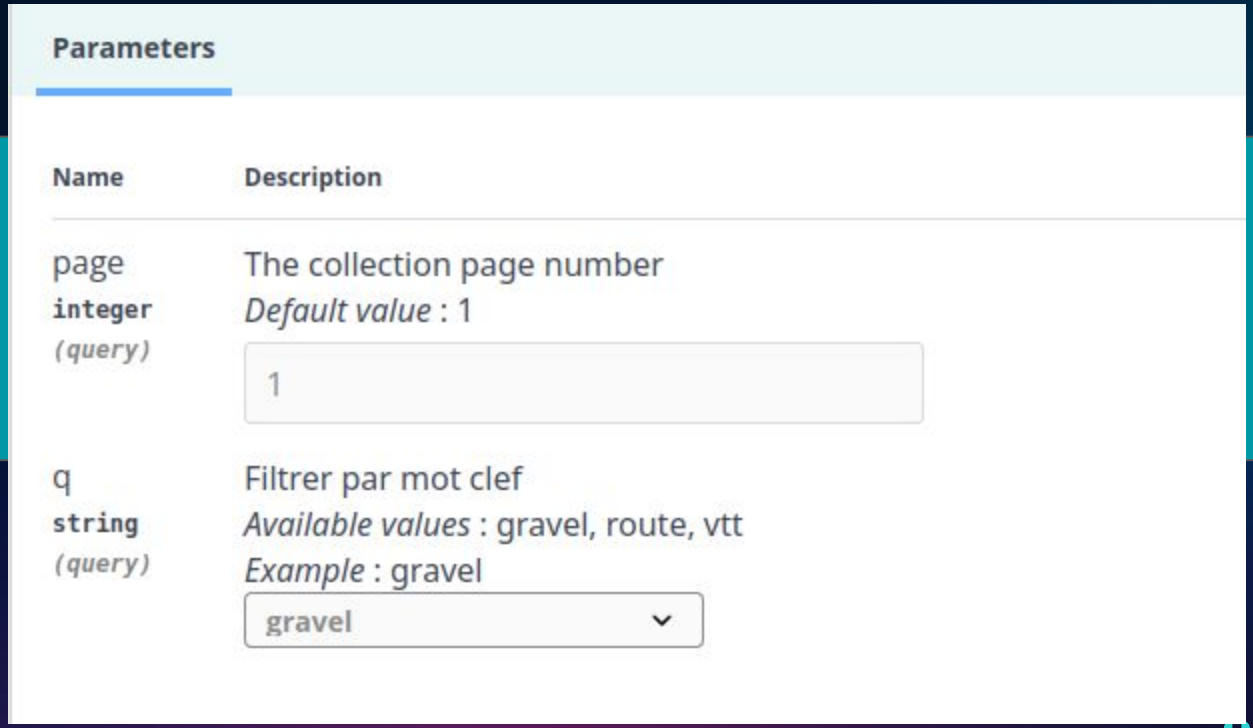
Ajouter du contexte aux propriétés

```php
#[ApiProperty(
  openapiContext: [
    'type' => 'string',
    'example' => 'Origin Cycles',
  ]
)]
public string $brand;

#[ApiProperty(
  openapiContext: [
    'format' => 'email',
    'example' => 'foo@example.com',
  ]
)]
public string $email;
```

Décrire les paramètres

```php
use ApiPlatform\Metadata\QueryParameter;
use ApiPlatform\OpenApi\Model\Parameter;

#[QueryParameter(
    key: 'q',
    schema: ['type' => 'string', 'enum' => ['gravel', 'route', 'vtt']],
    openApi: new Parameter(
        name: 'q',
        in: 'query',
        description: 'Filtrer par mot clef',
        allowEmptyValue: true,
        example: 'gravel',
    ),
    required: true
)]
class Bike
```

Décrire les paramètres



Aller plus loin

Les classes principales
impliquées dans la génération

OpenAPI

- `OpenApiFactory`
- `SchemaFactory`
- `OpenApiNormalizer`

Core

- `DocumentationAction`
- `ResourceNameCollectionFactory`
- `ResourceClassResolver`

Hydra

- `DocumentationNormalizer`
- `JsonSchemaFactory`
- `EntrypointNormalizer`

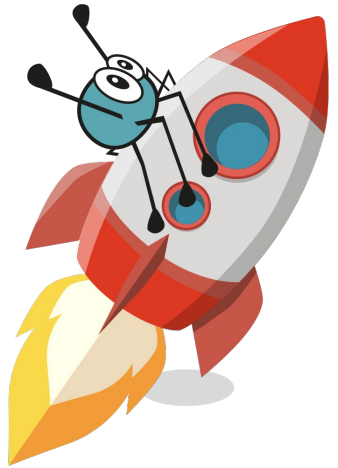
Comment est “devinée” la doc ?

- ✔ Nom de la classe
- ✔ Description des entités
- ✔ PHPDoc
- ✔ Types PHP
- ✔ Context OpenAPI
- ✔ Visibilité des propriétés
- ✔ Groupe du serializer du contexte de (dé)normalisation
- ✔ Description des filtres et paramètres
- ✔ Validator
- ✔ Doctrine ORM / MongoDB ODM

Que peut-on surcharger ?

- ✔ titre
- ✔ description
- ✔ liens
- ✔ liste des serveurs : base path URL
- ✔ filtrer
- ✔ ajout et modification de endpoints
- ✔ dépréciation de endpoints
- ✔ exemples
- ✔ schémas

Un peu **ce qu'on veut**



Décorer OpenApiFactory

```php
#[AsDecorator('api_platform.openapi.factory')]
final class OpenApiFactory implements OpenApiFactoryInterface
{
    public function __construct(
        private readonly OpenApiFactoryInterface $decorated,
    ) {}

    public function __invoke(array $context = []): OpenApi
    {
        $openApi = $this->decorated->__invoke($context);

        $pathItem = $openApi->getPaths()->getPath('/bikes/{id}');
        $operation = $pathItem->getPut()->withDeprecated(true);
        $openApi
            ->getPaths()
            ->addPath('/bikes/{id}', $pathItem->withPut($operation));

        return $openApi;
    }
}
```

Déprécier une opération

```php
#[AsDecorator('api_platform.openapi.factory')]
final class OpenApiFactory implements OpenApiFactoryInterface
{
    public function __construct(
        private readonly OpenApiFactoryInterface $decorated,
    ) {}

    public function __invoke(array $context = []): OpenApi
    {
        $openApi = $this->decorated->__invoke($context);

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```

Déprécier une opération

```php
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{
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    {
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        $pathItem = $openApi->getPaths()->getPath('/bikes/{id}');
        $operation = $pathItem->getPut()->withDeprecated(true);
        $openApi
            ->getPaths()
            ->addPath('/bikes/{id}', $pathItem->withPut($operation));

        return $openApi;
    }
}
```

Déprécier une opération

Bike

GET	/bikes	Retrieves the collection of Bike resources.
POST	/bikes	Buy a new bike
GET	/bikes/{id}	Retrieves a Bike resource.
PUT	~~/bikes/{id}~~	Replaces the Bike resource.
DELETE	/bikes/{id}	Removes the Bike resource.
PATCH	/bikes/{id}	Updates the Bike resource.

```
{
    "openapi": "3.1.0",
    "paths": {
        "/bikes": {},
        "/bikes/{id}": {
            "put": {
                "deprecated": true
            },
        }
    }
}
```

Bike resources.

POST Buy a new bike

GET Retrieves a Bike resource.

PUT ~~Replaces the Bike resource.~~

Replaces the Bike resource. Deprecated

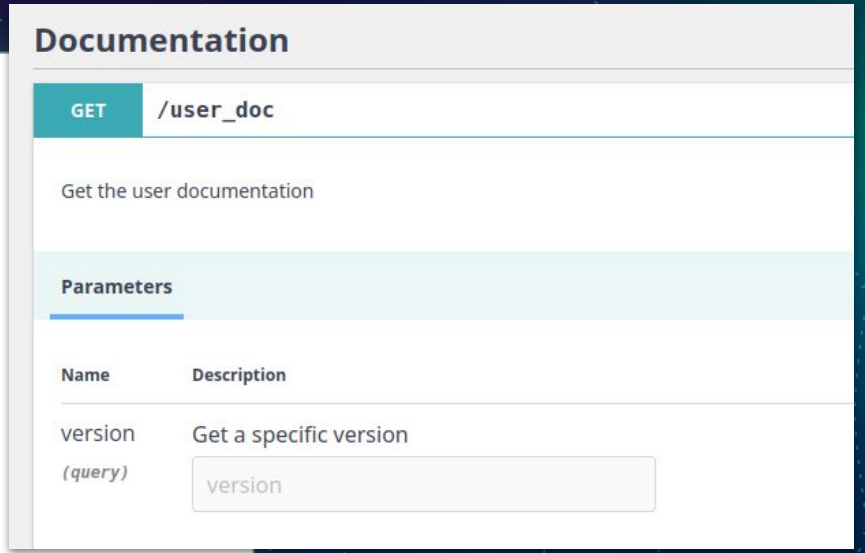
Replaces the Bike resource.

AUTHORIZATIONS: > api_key

API PLATFORM CONFERENCE

Ajouter un endpoint custom

```php
public function __invoke(array $context = []): OpenApi
{
    $openApi = $this->decorated->__invoke($context);
    $openApi->getPaths()->addPath(
        '/user_doc',
        new Model\PathItem(
            get: new Model\Operation(
                'GET',
                tags: ['Documentation'],
                description: 'Get the user documentation',
                parameters: [
                    new Model\Parameter('version', 'query', 'Get a specific version')
                ]
            ),
        ),
    );

    return $openApi;
}
```

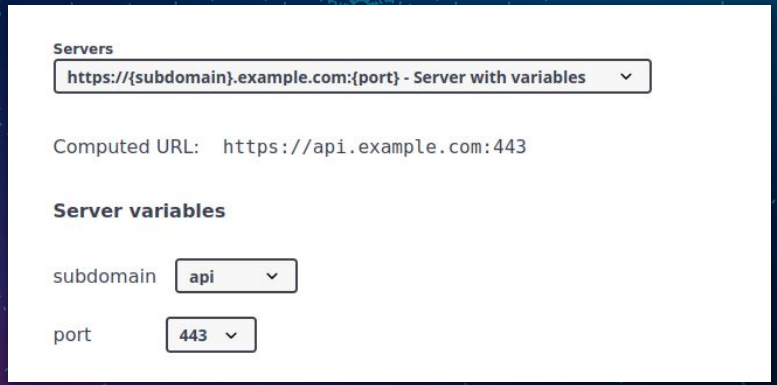


Ajouter des informations

```php
public function __invoke(array $context = []): OpenApi
{
    $openApi = $this->decorated->__invoke($context);
    $description = sprintf('Nous sommes le %s', now()->format('d/m/Y'));

    return $openApi
        ->withInfo((new Model\Info(
            'BikeHub API',
            '1.0.0',
            $description,
            '/cgv',
            new Model\Contact('BikeHub', 'https://bikehub.org', 'contact@bikehub.org'),
            summary: 'BikeHub est une API qui permet de gérer une communauté de cyclistes,
              de parcours, de vélos et de compétitions'
        )))
    ;
}
```

Configurer des serveurs
(avec variables ou sans)

```php
public function __invoke(array $context = []): OpenApi
{
  $variables = [
      'subdomain' => [
          'default' => 'api',
          'description' => 'Subdomain of the API',
          'enum' => ['api', 'staging', 'dev'],
      ],
      'port' => [
          'default' => '443',
          'description' => 'Port to connect to',
          'enum' => ['443', '80'],
      ],
  ];

  return $openApi
    ->withServers([
        new Model\Server('https://localhost', 'Serveur de dev'),
        new Model\Server('https://bikehub.foo', 'Serveur Foo'),
        new Model\Server('https://bikehub.bar', 'Serveur Bar'),
        new Model\Server('https://{subdomain}.example.com:{port}',
'Server with variables', new \ArrayObject($variables)),
    ]);
}
```



Ajouter les méthodes d'authentification

```php
$components = $openApi->getComponents();
$schemes = $components->getSecuritySchemes() ?? new \ArrayObject();

$schemes['basicAuth'] = new \ArrayObject([
    'type' => 'http',
    'scheme' => 'basic',
]);
$schemes['cookieAuth'] = new \ArrayObject([
    'type' => 'apiKey',
    'in' => 'cookie',
    'name' => 'PHPSESSID',
]);

$security = $openApi->getSecurity() ?? [];
$security[] = ['basicAuth' => []];
$security[] = ['cookieAuth' => []];

return $openApi
    ->withSecurity($security)
    ->withComponents($components->withSecuritySchemes($schemes));
```

Ajouter les méthodes d'authentification

```php
$components = $openApi->getComponents();
$schemes = $components->getSecuritySchemes() ?? new \ArrayObject();

$schemes['basicAuth'] = new \ArrayObject([
    'type' => 'http',
    'scheme' => 'basic',
]);
$schemes['cookieAuth'] = new \ArrayObject([
    'type' => 'apiKey',
    'in' => 'cookie',
    'name' => 'PHPSESSID',
]);

$security = $openApi->getSecurity() ?? [];
$security[] = ['basicAuth' => []];
$security[] = ['cookieAuth' => []];

return $openApi
    ->withSecurity($security)
    ->withComponents($components->withSecuritySchemes($schemes));
```

```php
#[ApiResource(
    openapi: new Model\Operation(security: [['cookieAuth' ⇒ []]]),
    security: "is_granted('ROLE_ADMIN')"
)]
class Bike
```

`security` : méthodes d'authentification globales, peuvent être surchargées par opération

`components.securitySchemes` : détails de chaque méthode


```json
{
  "paths": {
    "/bikes": {
      "get": {
        "operationId": "api_bikes_get_collection",
        "security": [
          {
            "cookieAuth": []
          }
        ]
      },
    }
  },
  "components": {
    "securitySchemes": {
      "oauth": {},
      "ApiKeyAuth": {
        "type": "apiKey",
        "description": "Value for the API-KEY header parameter.",
        "name": "API-KEY",
        "in": "header"
      },
      "basicAuth": {
        "type": "http",
        "scheme": "basic"
      },
      "cookieAuth": {
        "type": "apiKey",
        "in": "cookie",
        "name": "PHPSESSID"
      }
    }
  },
  "security": [
    {
      "oauth": []
    },
    {
      "ApiKeyAuth": []
    },
    {
      "basicAuth": []
    },
    {
      "cookieAuth": []
    }
  ],
}
```

Ajouter un modèle (JSON schema)

```php
$schemas = $openApi->getComponents()->getSchemas() ?? new \ArrayObject();
$schemas['CyclistCustom'] = new \ArrayObject([
    'type' => 'object',
    'properties' => [
        'id' => ['type' => 'integer', 'example' => 1],
        'firstName' => ['type' => 'string', 'example' => 'John'],
        'lastName' => ['type' => 'string', 'example' => 'Doe'],
        'username' => ['type' => 'string', 'example' => 'Toto'],
    ],
]);

$components = $openApi->getComponents()->withSchemas($schemas);
$openApi = $openApi->withComponents($components);
```

```php
$pathItem = $openApi->getPaths()->getPath('/cyclists/{id}');
$operation = $pathItem->getGet();
$responses = $operation->getResponses();
$responses['200'] = new Model\Response(
    description: 'Réponse custom',
    content: new \ArrayObject([
        'application/json' => [
            'schema' => [
                'oneOf' => [
                    ['name' => 'Ref1', '$ref' => '#/components/schemas/Cyclist.jsonld'],
                    ['$ref' => '#/components/schemas/CyclistCustom'],
                    ['type' => 'object', 'properties' => [...]],
                ]
            ],
            'examples' => []
        ]
    ])
);

$pathItem = $pathItem->withGet($operation->withResponses($responses));
$openApi->getPaths()->addPath('/cyclists/{id}', $pathItem);
```

```php
$responses['200'] = new Model\Response(
    description: 'Réponse custom',
    content: new \ArrayObject([
        'application/json' => [
            'schema' => [],
            'examples' => [
                'user' => [
                    'summary' => 'Exemple pour un utilisateur régulier',
                    'value' => [
                        ['id' => 1, 'model' => 'Gravel'], ['id' => 2, 'model' => 'Road']
                    ]
                ],
                'admin' => [
                    'summary' => 'Exemple pour un admin',
                    'value' => [
                        ['id' => 1, 'model' => 'Gravel', 'availability' => 'available'],
                        ['id' => 2, 'model' => 'Road', 'availability' => 'in maintenance']
                    ]
                ],
            ]
        ]
    ])
);

$pathItem = $pathItem->withGet($operation->withResponses($responses));
$openApi->getPaths()->addPath('/cyclists/{id}', $pathItem);
```

Ajouter des exemples différents

Code	Description
200	Réponse custom

Media type: application/json

Controls Accept header.

Examples: Exemple pour un utilisateur régulier

Example Value | Schema

```
[
  {
    "id": 1,
    "model": "Gravel"
  },
  {
    "id": 2,
    "model": "Road"
  }
]
```

404	Resource not found

Code	Description
200	Réponse custom

Media type: application/json

Controls Accept header.

Examples: Exemple pour un admin

Example Value | Schema

```
[
  {
    "id": 1,
    "model": "Gravel",
    "availability": "available"
  },
  {
    "id": 2,
    "model": "Road",
    "availability": "in maintenance"
  }
]
```

Filtrer les ressources

```php
final class FilteredResourceNameCollectionFactory implements ResourceNameCollectionFactoryInterface
{
    public function __construct(private readonly ResourceNameCollectionFactoryInterface $decorated, private readonly RequestStack $requestStack) {}

    private function getFilter(): ?string
    {
        $currentRequest = $this->requestStack->getCurrentRequest();
        if (!$currentRequest || 'api_doc' !== $currentRequest->attributes->get('_route')) {
            return null;
        }
        return $currentRequest->query->get('type');
    }

    public function create(): ResourceNameCollection
    {
        return match ($this->getFilter()) {
            'organizer' => new ResourceNameCollection([Event::class, Sponsor::class, WeatherReport::class]),
            'cyclist' => new ResourceNameCollection([Event::class, Cyclist::class, Bike::class, Track::class]),
            'provider' => new ResourceNameCollection([RepairShop::class, Bike::class]),
            default => $this->decorated->create(),
        };
    }
```

Filtrer les ressources

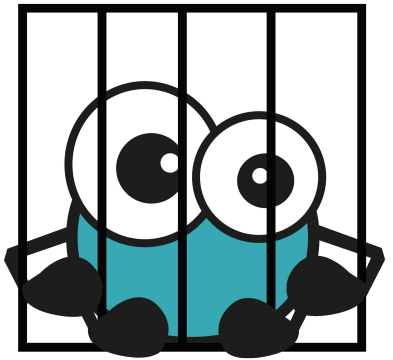
```php
final class FilteredResourceNameCollectionFactory implements ResourceNameCollectionFactoryInterface
{
    public function __construct(private readonly ResourceNameCollectionFactoryInterface $decorated, private readonly RequestStack $requestStack) {}

    private function getFilter(): ?string
    {
        $currentRequest = $this->requestStack->getCurrentRequest();
        if (!$currentRequest || 'api_doc' !== $currentRequest->attributes->get('_route')) {
            return null;
        }
        return $currentRequest->query->get('type');
    }

    public function create(): ResourceNameCollection
    {
        return match ($this->getFilter()) {
            'organizer' => new ResourceNameCollection([Event::class, Sponsor::class, WeatherReport::class]),
            'cyclist' => new ResourceNameCollection([Event::class, Cyclist::class, Bike::class, Track::class]),
            'provider' => new ResourceNameCollection([RepairShop::class, Bike::class]),
            default => $this->decorated->create(),
        };
    }
```

Filtrer les ressources

Filtrer les ressources par permission

```php
public function create(): ResourceNameCollection
{
    $filteredResources = [];
    $collection = $this->decorated->create();

    foreach ($collection as $resourceClass) {
        $reflection = new ReflectionClass($resourceClass);
        $apiResource = $reflection->getAttributes(ApiResource::class)[0] ?? null;

        if (
            null !== $this->resourceAccessChecker &&
            (null !== $security = $apiResource?->getArguments()['security'] ?? null) &&
            !$this->resourceAccessChecker->isGranted($resourceClass, (string) $security)
        ) {
            continue;
        }
        $filteredResources[] = $resourceClass;
    }

    return new ResourceNameCollection($filteredResources);
}
```

```php
#[ApiResource(
    security: "is_granted('ROLE_ADMIN')",
)]
class Cyclist
```



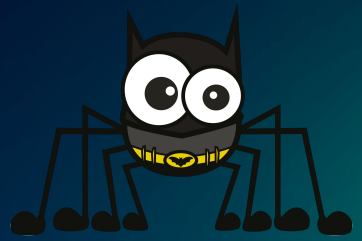
Filtrer les ressources par permission

```php
public function normalize(mixed $object, /* .. */)
{
    $classes = [];
    $entrypointProperties = [];

    foreach ($object->getResourceNameCollection() as $resourceClass) {
        $resourceMetadataCollection = $this->resourceMetadataFactory->create($resourceClass);
        $resourceMetadata = $resourceMetadataCollection[0];
        /* .. */

        $security = $resourceMetadata->getSecurity();
        if ($security && !$this->resourceAccessChecker->isGranted($resourceClass, (string) $security)) {
            continue;
        }

        $this->populateEntrypointProperties($resourceMetadata, /* .. */);
        $classes[] = $this->getClass($resourceClass, $resourceMetadata, /* .. */);
    }

    return $this->computeDoc($object, $this->getClasses($entrypointProperties, $classes));
}
```

OpenAPI overlays

```yaml
overlay: 1.0.0
info:
  title: Mise à jour de la spec OpenApi avec overlay
  version: 1.0.0
actions:
  - target: $.info
    update:
      title: Mise à jour du titre par overlay
      description: Nouvelle description
  - target: $.paths['/bikes'].get.responses['200'].content['application/json'].schema
    update:
      items:
        $ref: "#/components/schemas/BikeList"
  - target: $.paths['/bikes/{id}']
    description: Suppression de la route
    remove: true
  - target: $.paths[*][*].parameters[?(@.in=='query')]
    update:
      description: Mise à jour des paramètres de type query
      example: exemple_de_valeur
      required: true
```

Appliquer l'overlay



- ✔ Bump CLI [github.com/bump-sh/cli]

```
$ bump overlay openapi.yaml overlays.yaml > openapi.override.yaml
```

- ✔ Speakeasy CLI [github.com/speakeasy-api/speakeasy]

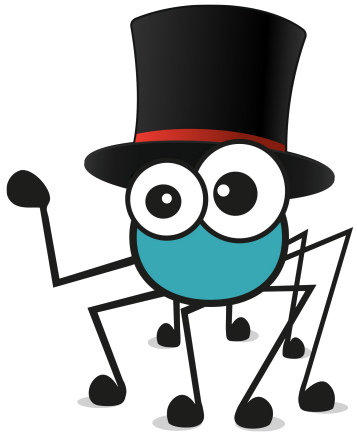
```
$ speakeasy overlay apply -s openapi.yaml -o overlays.yaml > openapi.override.yaml
```

- ✔ openapi-overlays-js [github.com/lornajane/openapi-overlays-js]

```
$ overlayjs --openapi openapi.yaml --overlay overlays.yaml
```

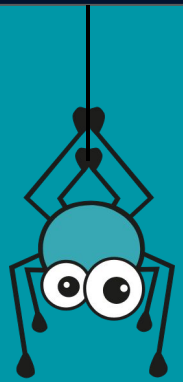
OpenAPI overlays

```yaml
openapi: 3.1.0
info:
  title: 'Mise à jour du titre par overlay'
  description: "Nouvelle description"
  version: 1.0.0
paths:
  /bikes:
    get:
      operationId: api_bikes_get_collection
      responses:
        '200':
          content:
            application/json:
              schema:
                type: array
                items:
                  $ref: '#/components/schemas/BikeList'
      parameters:
        - name: page
          in: query
          description: 'Mise à jour des paramètres de type query'
          required: true
          example: exemple_de_valeur
```



Merci !

Des questions ?



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