



Ministerul Educației, Culturii și Cercetării a Republicii Moldova

Universitatea de Stat a Moldovei

Facultatea Matematică și Informatică

Raport

Lucrare de laborator Nr.2

la disciplina Framework-uri pentru dezvoltarea de aplicații web

Tema:”Flex și Twig”

A efectuat : Pistol Adrian

A verificat : Bodrug Svetlana

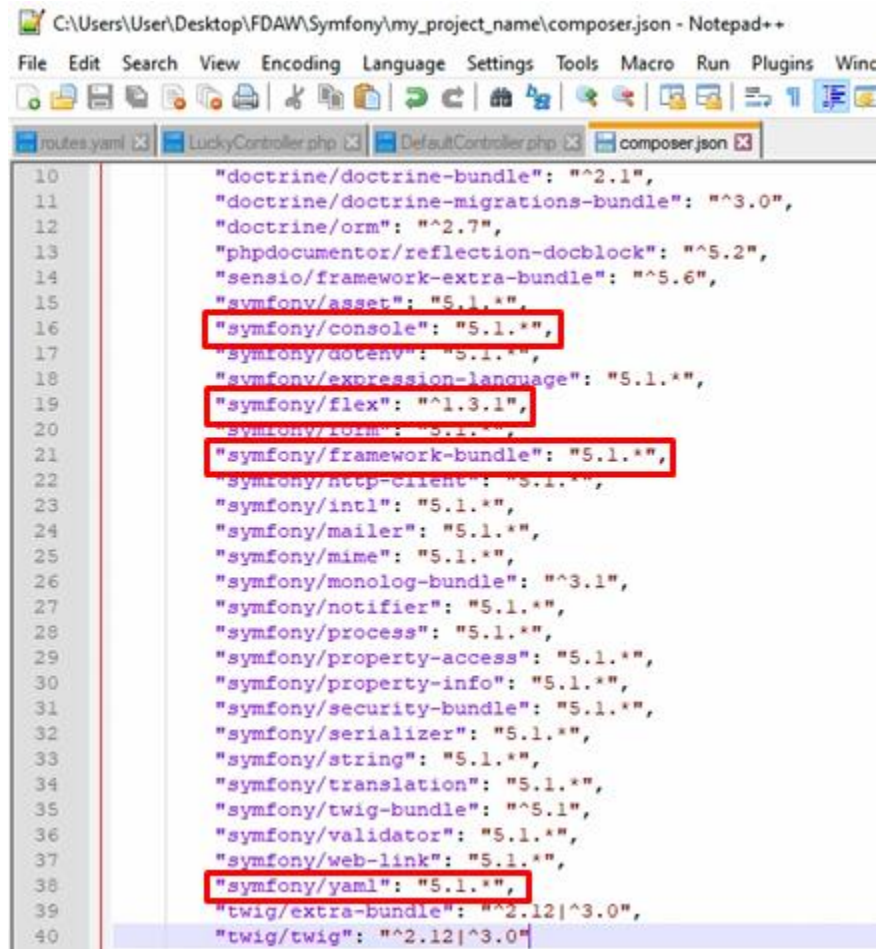
Chișinău 2020

Cuprins

Symfony: Porniți Micro!	3
Rețete flex și pseudonime	3
Twig: Afișarea unui șablon	4
Rezultat.....	5
Profiler: Debug Heaven.....	5
Suport pentru API	6
Rezultat.....	6

Symfony: Porniți Micro!

Când pornesc un nou proiect Symfony, acesta este mic: numai cele mai critice dependențe sunt incluse în fișierul composer.json:



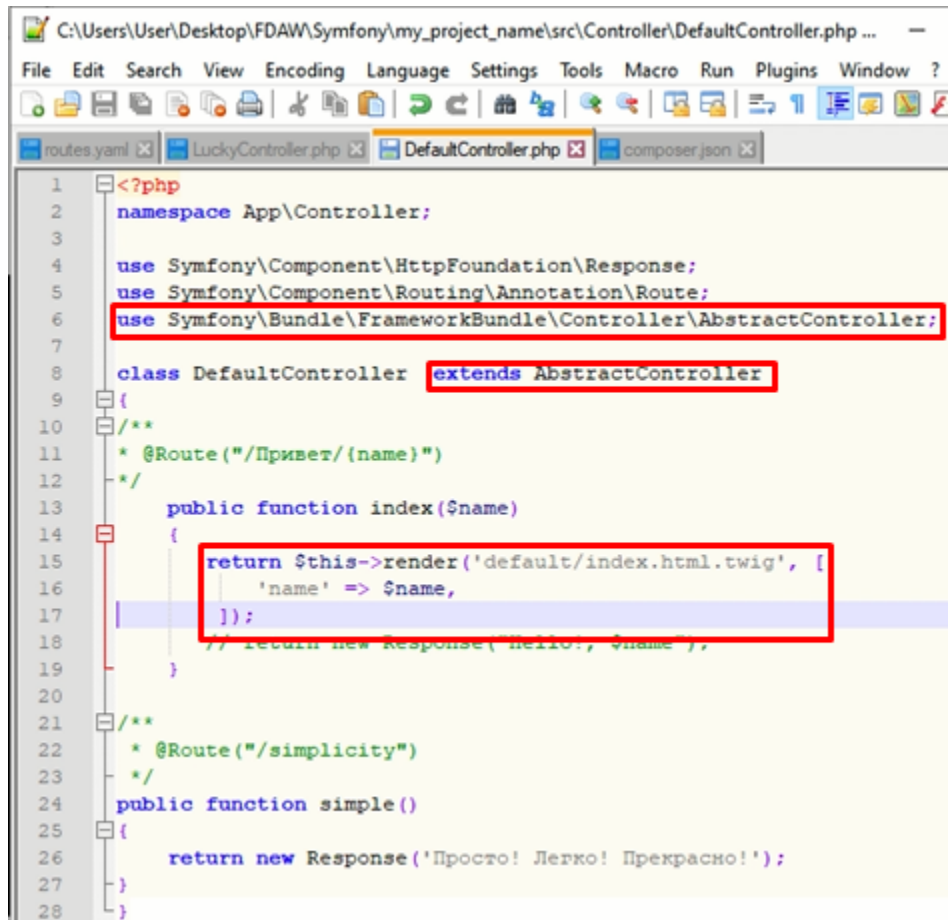
```
C:\Users\User\Desktop\FDAW\Symfony\my_project_name\composer.json - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Winc
routes.yaml LuckyController.php DefaultController.php composer.json
10 "doctrine/doctrine-bundle": "^2.1",
11 "doctrine/doctrine-migrations-bundle": "^3.0",
12 "doctrine/orm": "^2.7",
13 "phpdocumentor/reflection-docblock": "^5.2",
14 "sensio/framework-extra-bundle": "^5.6",
15 "symfony/asset": "5.1.*",
16 "symfony/console": "5.1.*",
17 "symfony/dotenv": "5.1.*",
18 "symfony/expression-language": "5.1.*",
19 "symfony/flex": "^1.3.1",
20 "symfony/form": "5.1.*",
21 "symfony/framework-bundle": "5.1.*",
22 "symfony/http-client": "5.1.*",
23 "symfony/intl": "5.1.*",
24 "symfony/mailer": "5.1.*",
25 "symfony/mime": "5.1.*",
26 "symfony/monolog-bundle": "^3.1",
27 "symfony/notifier": "5.1.*",
28 "symfony/process": "5.1.*",
29 "symfony/property-access": "5.1.*",
30 "symfony/property-info": "5.1.*",
31 "symfony/security-bundle": "5.1.*",
32 "symfony/serializer": "5.1.*",
33 "symfony/string": "5.1.*",
34 "symfony/translation": "5.1.*",
35 "symfony/twig-bundle": "^5.1",
36 "symfony/validator": "5.1.*",
37 "symfony/web-link": "5.1.*",
38 "symfony/yaml": "5.1.*",
39 "twig/extra-bundle": "^2.12|^3.0",
40 "twig/twig": "^2.12|^3.0"
```

Rețete flex și pseudonime

Instalez și configurez Twig:

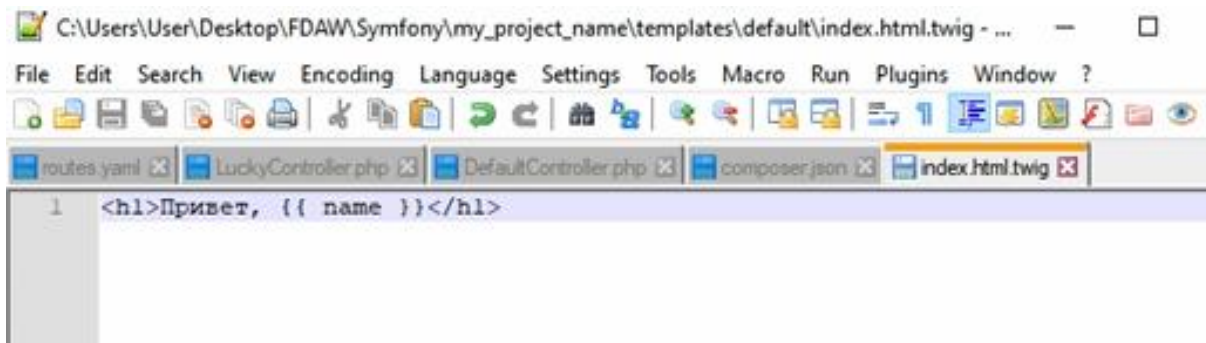
```
C:\Users\User\Desktop\FDAW\Symfony\my_project_name> composer require twig
Using version ^1.0 for symfony/twig-pack
./composer.json has been updated
Running composer update symfony/twig-pack
Loading composer repositories with package information
Updating dependencies
Lock file operations: 1 install, 0 updates, 0 removals
- Locking symfony/twig-pack (v1.0.2)
Writing lock file
Installing dependencies from lock file (including require-dev)
Package operations: 1 install, 0 updates, 0 removals
- Installing symfony/twig-pack (v1.0.2): Extracting archive
Generating optimized autoload files
```

Twig: Afișarea unui șablon



```
1 <?php
2 namespace App\Controller;
3
4 use Symfony\Component\HttpFoundation\Response;
5 use Symfony\Component\Routing\Annotation\Route;
6 use Symfony\Bundle\FrameworkBundle\Controller\AbstractController;
7
8 class DefaultController extends AbstractController
9 {
10 /**
11  * @Route("/Привет/{name}")
12  */
13 public function index($name)
14 {
15     return $this->render('default/index.html.twig', [
16         'name' => $name,
17     ]);
18     // return new Response('Hello, $name');
19 }
20
21 /**
22  * @Route("/simplicity")
23  */
24 public function simple()
25 {
26     return new Response('Просто! Легко! Прекрасно!');
27 }
28 }
```

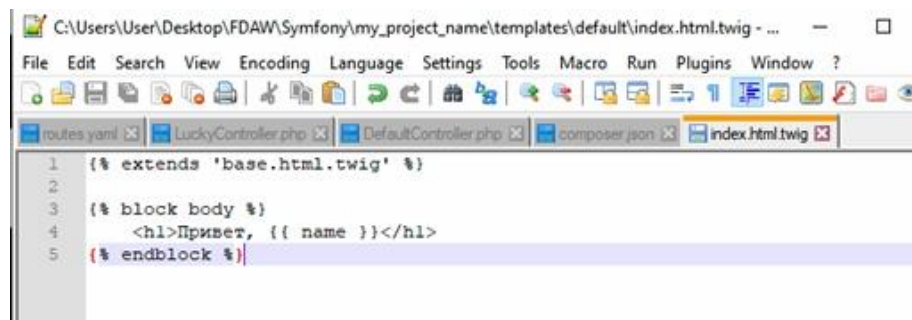
Extinzând AbstractController, am acces la o listă de metode și instrumente de scurtare precum render (). Creez un șablon nou:



```
1 <h1>Привет, {{ name }}</h1>
```

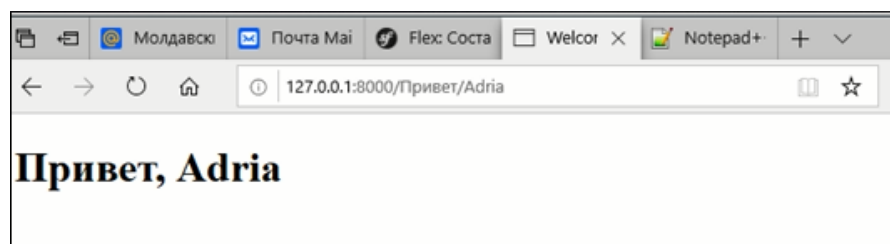
Sintaxa `{{nume}}` va afișa variabila de nume care este transmisă de la controler.

Pagina conține doar eticheta `h1`. Pentru a-i oferi aspect HTML, extind `base.html.twig`:

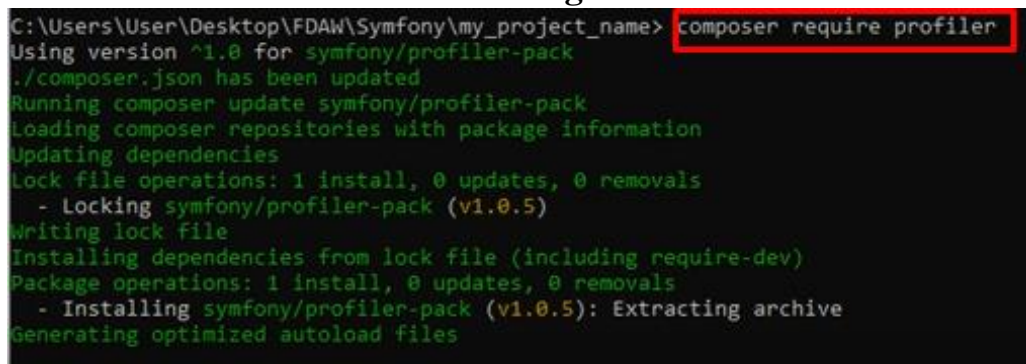


```
1 {% extends 'base.html.twig' %}
2
3 {% block body %}
4     <h1>Привет, {{ name }}</h1>
5 {% endblock %}
```

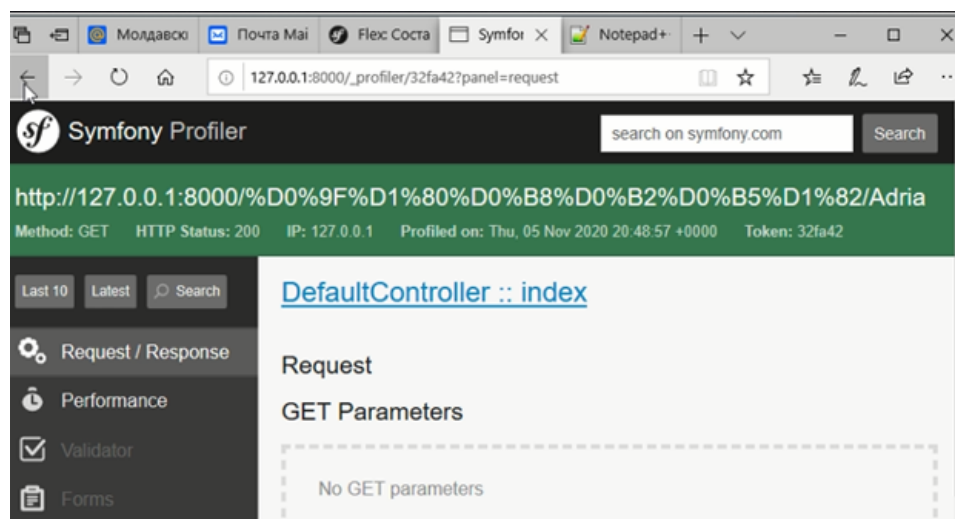
Rezultat:



Profiler: Debug Heaven

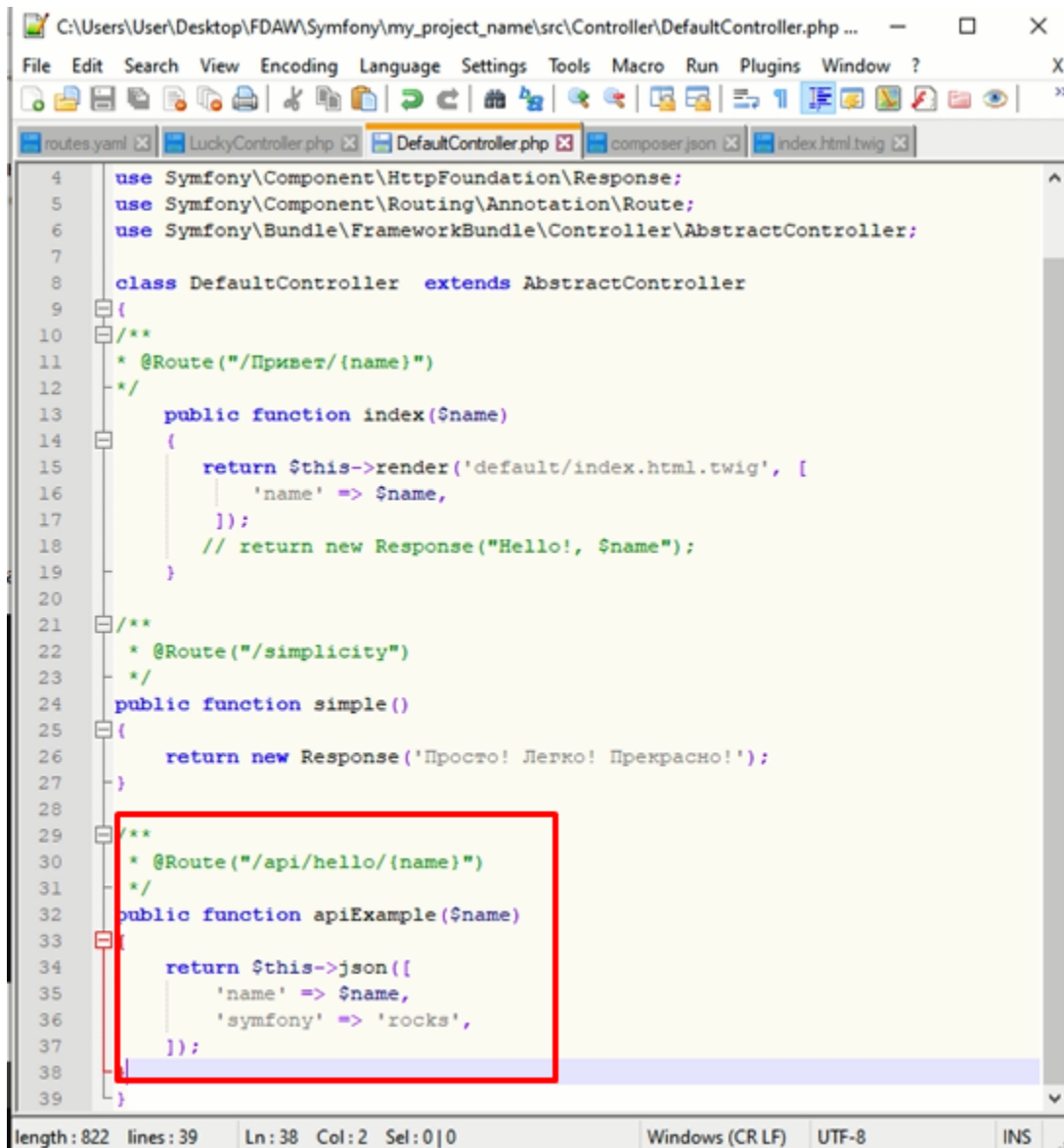


```
C:\Users\User\Desktop\FDAW\Symfony\my_project_name> composer require profiler
Using version ^1.0 for symfony/profiler-pack
./composer.json has been updated
Running composer update symfony/profiler-pack
Loading composer repositories with package information
Updating dependencies
Lock file operations: 1 install, 0 updates, 0 removals
- Locking symfony/profiler-pack (v1.0.5)
Writing lock file
Installing dependencies from lock file (including require-dev)
Package operations: 1 install, 0 updates, 0 removals
- Installing symfony/profiler-pack (v1.0.5): Extracting archive
Generating optimized autoload files
```



Suport pentru API

Pot să returnez cu ușurință JSON de la orice controler:



```
4 use Symfony\Component\HttpFoundation\Response;
5 use Symfony\Component\Routing\Annotation\Route;
6 use Symfony\Bundle\FrameworkBundle\Controller\AbstractController;
7
8 class DefaultController extends AbstractController
9 {
10 /**
11  * @Route("/Привет/{name}")
12  */
13 public function index($name)
14 {
15     return $this->render('default/index.html.twig', [
16         'name' => $name,
17     ]);
18     // return new Response("Hello!, $name");
19 }
20
21 /**
22  * @Route("/simplicity")
23  */
24 public function simple()
25 {
26     return new Response('Просто! Легко! Прекрасно!');
27 }
28
29 /**
30  * @Route("/api/hello/{name}")
31  */
32 public function apiExample($name)
33 {
34     return $this->json([
35         'name' => $name,
36         'symfony' => 'rocks',
37     ]);
38 }
39 }
```

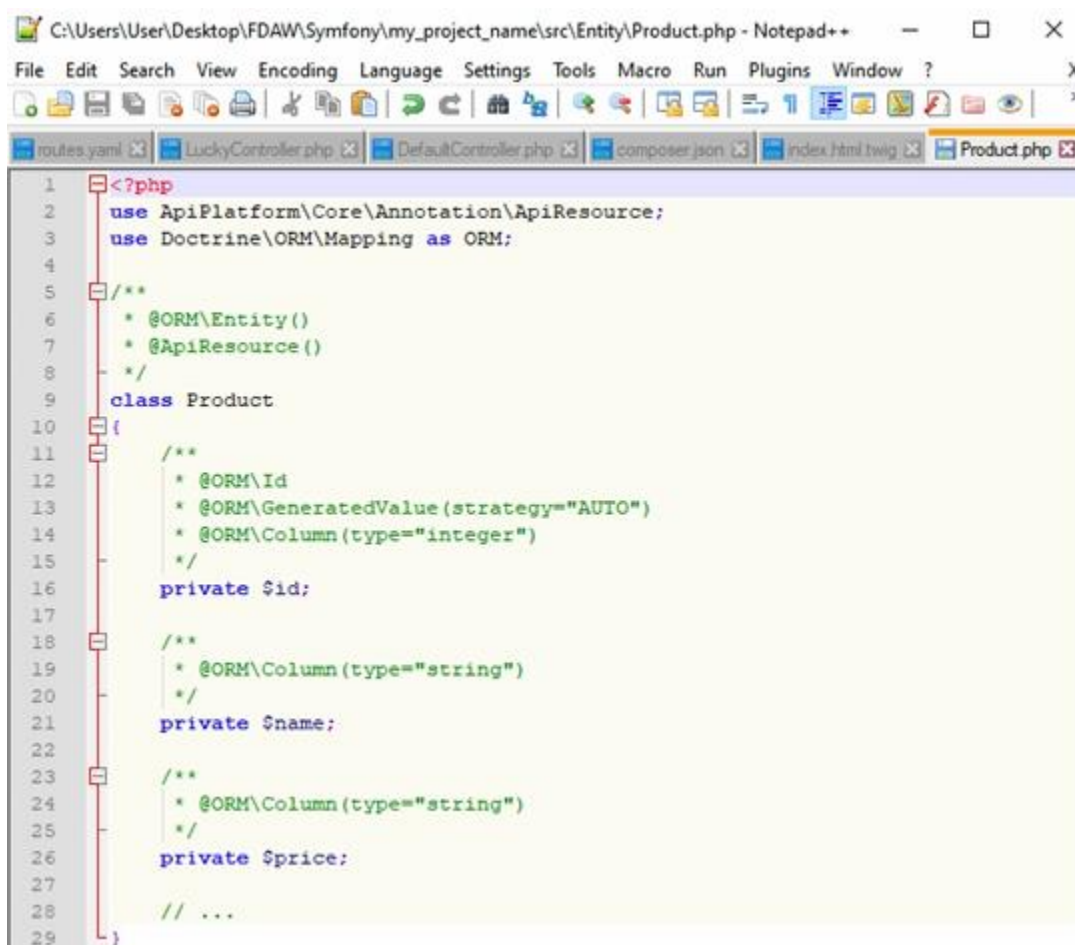
Rezultat:



Dar pentru un API cu adevărat bogat, instalez platforma Api:

```
C:\Users\User\Desktop\FDAW\Symfony\my_project_name> composer require api
Using version ^1.3 for api-platform/api-pack
./composer.json has been updated
Running composer update api-platform/api-pack
Loading composer repositories with package information
Updating dependencies
Restricting packages listed in "symfony/symfony" to "5.1.*"
Lock file operations: 7 installs, 0 updates, 0 removals
- Locking api-platform/api-pack (v1.3.0)
- Locking api-platform/core (v2.5.7)
- Locking fig/link-util (1.1.1)
- Locking nelmio/cors-bundle (2.1.0)
- Locking symfony/orm-pack (v2.0.0)
- Locking symfony/serializer-pack (v1.0.4)
- Locking willdurand/negotiation (v2.3.1)
Writing lock file
Installing dependencies from lock file (including require-dev)
Package operations: 7 installs, 0 updates, 0 removals
- Downloading nelmio/cors-bundle (2.1.0)
- Downloading willdurand/negotiation (v2.3.1)
- Downloading fig/link-util (1.1.1)
- Downloading api-platform/core (v2.5.7)
- Downloading api-platform/api-pack (v1.3.0)
1/5 [====>-----] 20%
```

Creez o entitate de produs și o adnotez @ApiResponse ():



```
C:\Users\User\Desktop\FDAW\Symfony\my_project_name\src\Entity\Product.php - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
routes.yaml LuckyController.php DefaultController.php composer.json index.html.twig Product.php

1 <?php
2 use ApiPlatform\Core\Annotation\ApiResource;
3 use Doctrine\ORM\Mapping as ORM;
4
5 /**
6  * @ORM\Entity()
7  * @ApiResponse()
8  */
9 class Product
10 {
11     /**
12      * @ORM\Id
13      * @ORM\GeneratedValue(strategy="AUTO")
14      * @ORM\Column(type="integer")
15      */
16     private $id;
17
18     /**
19      * @ORM\Column(type="string")
20      */
21     private $name;
22
23     /**
24      * @ORM\Column(type="string")
25      */
26     private $price;
27
28     // ...
29 }
```

Enumer rutele rulând:

```
C:\Users\User\Desktop\FDAW\Symfony\my_project_name> php bin/console debug:router
```

CA Command Prompt

```
-----  
_preview_error          ANY      ANY      ANY      /_error/{code}.{_format}  
_wdt                    ANY      ANY      ANY      /_wdt/{token}  
_profiler_home          ANY      ANY      ANY      /_profiler/  
_profiler_search        ANY      ANY      ANY      /_profiler/search  
_profiler_search_bar    ANY      ANY      ANY      /_profiler/search_bar  
_profiler_phpinfo       ANY      ANY      ANY      /_profiler/phpinfo  
_profiler_search_results ANY      ANY      ANY      /_profiler/{token}/search/res  
_profiler_open_file     ANY      ANY      ANY      /_profiler/open  
_profiler               ANY      ANY      ANY      /_profiler/{token}  
_profiler_routes        ANY      ANY      ANY      /_profiler/{token}/routes  
-----  
api_entrypoint          ANY      ANY      ANY      /api/{index}.{_format}  
api_doc                 ANY      ANY      ANY      /api/docs.{_format}  
api_jsonld_context     ANY      ANY      ANY      /api/contexts/{shortName}.{_f  
api_products_get_collection GET     ANY      ANY      /api/products.{_format}  
api_products_post_collection POST    ANY      ANY      /api/products.{_format}  
api_products_get_item   GET     ANY      ANY      /api/products/{id}.{_format}  
api_products_delete_item DELETE  ANY      ANY      /api/products/{id}.{_format}  
api_products_put_item   PUT     ANY      ANY      /api/products/{id}.{_format}  
api_products_patch_item PATCH   ANY      ANY      /api/products/{id}.{_format}  
app_lucky_number       ANY      ANY      ANY      /lucky/number  
-----
```