



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"**

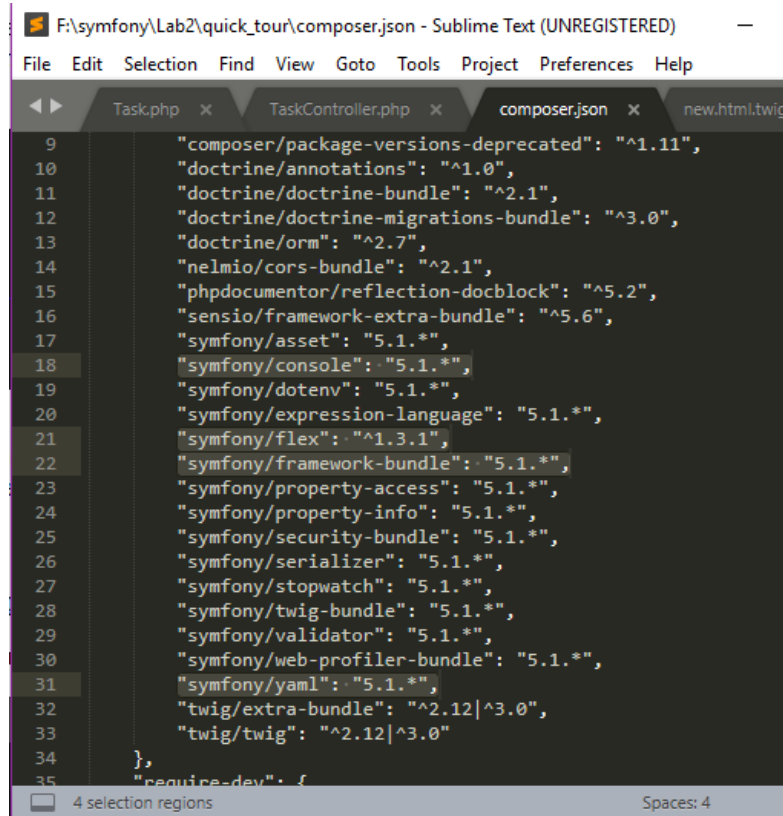
A efectuat : Bafîr Ana

A verificat : Bodrug Svetlana

Chișinău 2020

Symfony: Porniți Micro!

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



```
F:\symfony\Lab2\quick_tour\composer.json - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Task.php x TaskController.php x composer.json x new.html.twig
9      "composer/package-versions-deprecated": "^1.11",
10     "doctrine/annotations": "^1.0",
11     "doctrine/doctrine-bundle": "^2.1",
12     "doctrine/doctrine-migrations-bundle": "^3.0",
13     "doctrine/orm": "^2.7",
14     "nelmio/cors-bundle": "^2.1",
15     "phpdocumentor/reflection-docblock": "^5.2",
16     "sensio/framework-extra-bundle": "^5.6",
17     "symfony/asset": "5.1.*",
18     "symfony/console": "5.1.*",
19     "symfony/dotenv": "5.1.*",
20     "symfony/expression-language": "5.1.*",
21     "symfony/flex": "^1.3.1",
22     "symfony/framework-bundle": "5.1.*",
23     "symfony/property-access": "5.1.*",
24     "symfony/property-info": "5.1.*",
25     "symfony/security-bundle": "5.1.*",
26     "symfony/serializer": "5.1.*",
27     "symfony/stopwatch": "5.1.*",
28     "symfony/twig-bundle": "5.1.*",
29     "symfony/validator": "5.1.*",
30     "symfony/web-profiler-bundle": "5.1.*",
31     "symfony/yaml": "5.1.*",
32     "twig/extra-bundle": "^2.12|^3.0",
33     "twig/twig": "^2.12|^3.0"
34 },
35 "require-dev": {
```

Rețete flex și pseudonime

Instalez și configurez Twig:

```
F:\symfony\Lab2\quick_tour>composer require twig
```

Twig: Afișarea unui șablon

```
DefaultController.php x
1 <?php
2
3 namespace App\Controller;
4
5 use Symfony\Component\HttpFoundation\Response;
6 use Symfony\Component\Routing\Annotation\Route;
7 use Symfony\Bundle\FrameworkBundle\Controller\AbstractController;
8
9 class DefaultController extends AbstractController
10 {
11     /**
12      * @Route("/hello/{name}")
13      */
14     public function index($name)
15     {
16         return $this->render('default/index.html.twig', [
17             'name' => $name,
18         ]);
19     }
20 }
```

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

```
<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:

```
DefaultController.php x index.html.twig x
1 {# templates/default/index.html.twig #}
2 {% extends 'base.html.twig' %}
3
4 {% block body %}
5     <h1>Привет, {{ name }}</h1>
6 {% endblock %}
```

REZULTAT:

← → ↺ 🏠 ⓘ localhost:8000/hello/Symfony

Привет, Symfony

Profiler: Debug Heaven

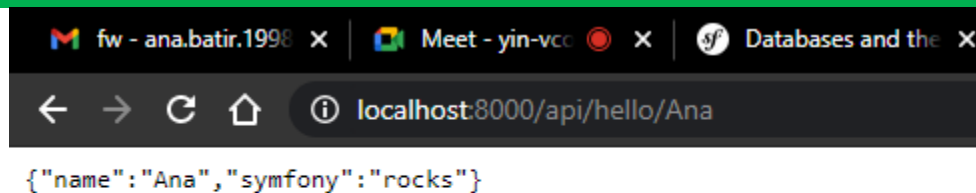
```
F:\symfony\Lab2\quick_tour>composer require profiler
```

Suport pentru API

Pot să returnez cu ușurință JSON de la orice controler:

```
DefaultController.php x index.html.twig
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
40 }
41 ?>
```

REZULTAT:



fw - ana.batir.1998 x | Meet - yin-vcc x | Databases and the x

localhost:8000/api/hello/Ana

```
{"name": "Ana", "symfony": "rocks"}
```

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

```
F:\symfony\Lab2\quick_tour>composer require api
```

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

```
1 k?php
2 // src/Entity/Product.php
3 // ...
4
5 use ApiPlatform\Core\Annotation\ApiResource;
6 use Doctrine\ORM\Mapping as ORM;
7
8 /**
9  * @ORM\Entity()
10  * @ApiResponse()
11  */
12 class Product
13 {
14     /**
15      * @ORM\Id
16      * @ORM\GeneratedValue(strategy="AUTO")
17      * @ORM\Column(type="integer")
18      */
19     private $id;
20
21     /**
22      * @ORM\Column(type="string")
23      */
24     private $name;
25
26     /**
27      * @ORM\Column(type="string")
28      */
29     private $price;
30
31     // ...
32 }
33
34 ?>
```

Enumer rutele rulând:

```
Administrator: Command Prompt
F:\syfony\Lab2\quick_tour>php bin/console debug:router
```

Name	Method	Scheme	Host	Path
_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/results
_profiler_open_file	ANY	ANY	ANY	/_profiler/open
_profiler	ANY	ANY	ANY	/_profiler/{token}
_profiler_router	ANY	ANY	ANY	/_profiler/{token}/router
_profiler_exception	ANY	ANY	ANY	/_profiler/{token}/exception
_profiler_exception_css	ANY	ANY	ANY	/_profiler/{token}/exception.css
app_default_index	ANY	ANY	ANY	/hello/{name}
app_default_simple	ANY	ANY	ANY	/simplicity
app_default_apiexample	ANY	ANY	ANY	/api/hello/{name}
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}.{_format}
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}