Symfony

Structure

```php
<?php

namespace App\Controller;

use Symfony\Bundle\FrameworkBundle\Controller\AbstractController;
use Symfony\Component\HttpFoundation\Response;
use Symfony\Component\Routing\Annotation\Route;

class PagesController extends AbstractController
{
    /**
     * @Route("/", name="home")
     */
    public function index(): Response
    {
        return $this->render('pages/index.html.twig', [
            'title' => 'HOME',
        ]);
    }

    /**
     * @Route("/contact", name="contact")
     */
    public function contact(): Response
    {
        return $this->render('pages/contact.html.twig', [
            'title' => 'CONTACT',
        ]);
    }
}
```

Controller principal

EXPLORER

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  - translations
  - var
  - vendor
  - .env
  - .env.test
  - .gitignore
  - {} composer.json
  - symfony.lock

PagesController.php ✕

src > Controller > PagesController.php

```php
<?php

namespace App\Controller;

use Symfony\Bundle\FrameworkBundle\Controller\AbstractController;
use Symfony\Component\HttpFoundation\Response;
use Symfony\Component\Routing\Annotation\Route;

class PagesController extends AbstractController
{
    /**
     * @Route("/", name="home")
     */
    public function index(): Response
    {
        return $this->render('pages/index.html.twig', [
            'title' => 'HOME',
        ]);
    }


    /**
     * @Route("/contact", name="contact")
     */
    public function contact(): Response
    {
        return $this->render('pages/contact.html.twig', [
            'title' => 'CONTACT',
        ]);
    }
}
```

Définition des routes

src > Controller > 🐘 PagesController.php

```php
1   <?php
2
3   namespace App\Controller;
4
5   use Symfony\Bundle\FrameworkBundle\Controller\AbstractController;
6   use Symfony\Component\HttpFoundation\Response;
7   use Symfony\Component\Routing\Annotation\Route;
8
9   class PagesController extends AbstractController
10  {
11      /**
12       * @Route("/", name="home")
13       */
14      public function index(): Response
15      {
16          return $this->render('pages/index.html.twig', [
17              'title' => 'HOME',
18          ]);
19      }
20
21      /**
22       * @Route("/contact", name="contact")
23       */
24      public function contact(): Response
25      {
26          return $this->render('pages/contact.html.twig', [
27              'title' => 'CONTACT',
28          ]);
29      }
30  }
31
```

Définition des Methods Métier

```php
<?php

namespace App\Controller;

use Symfony\Bundle\FrameworkBundle\Controller\AbstractController;
use Symfony\Component\HttpFoundation\Response;
use Symfony\Component\Routing\Annotation\Route;

class PagesController extends AbstractController
{
    /**
     * @Route("/", name="home")
     */
    public function index(): Response
    {
        return $this->render('pages/index.html.twig', [
            'title' => 'HOME',
        ]);
    }


    /**
     * @Route("/contact", name="contact")
     */
    public function contact(): Response
    {
        return $this->render('pages/contact.html.twig', [
            'title' => 'CONTACT',
        ]);
    }
}
```

EXPLORER ···

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      ⚡ index.html.twig
    ⚡ base.html.twig
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  > translations
  > var
  > vendor
  ⚙ .env
  ≡ .env.test
  ◆ .gitignore
  {} composer.json
  ≡ symfony.lock

Appel des vues (rendu)

Appel des vues (rendu)

index.html.twig ●

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  › vendor
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  ≡ .env.test
  ◆ .gitignore
  {} composer.json
  ≡ phpunit.xml.dist
  ≡ symfony.lock

```twig
1   {% extends 'base.html.twig' %}
2
3   {% block title %}Hello HOME PAGE!{% endblock %}
4
5   {% block body %}
6   <style>
7       .example-wrapper {
8           margin: 1em auto;
9           max-width: 800px;
10          width: 95%;
11          font: 18px/1.5 sans-serif;
12      }
13      .example-wrapper code {
14          background: #F5F5F5;
15          padding: 2px 6px;
16      }
17  </style>
18
19  <div class="example-wrapper">
20      <h1>Hello {{ title }}! ✅</h1>
21
22      This friendly message is coming from:
23      <ul>
24          <li>
25              <a href="{{ path('home') }}">HOME</a>
26          </li>
27          <li>
28              <a href="{{ path('contact') }}">CONTACT</a>
29          </li>
30      </ul>
31  </div>
32  {% endblock %}
```

Exemple d'un gabarit Twig - HTML (vue)

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```twig
1  {% extends 'base.html.twig' %}
2
3  {% block title %}Hello HOME PAGE!{% endblock %}
4
5  {% block body %}
6  <style>
7      .example-wrapper {
8          margin: 1em auto;
9          max-width: 800px;
10         width: 95%;
11         font: 18px/1.5 sans-serif;
12     }
13     .example-wrapper code {
14         background: #F5F5F5;
15         padding: 2px 6px;
16     }
17 </style>
18
19 <div class="example-wrapper">
20     <h1>Hello {{ title }}! ✅</h1>
21
22     This friendly message is coming from:
23     <ul>
24         <li>
25             <a href="{{ path('home') }}">HOME</a>
26         </li>
27         <li>
28             <a href="{{ path('contact') }}">CONTACT</a>
29         </li>
30     </ul>
31 </div>
32 {% endblock %}
```

Principe des extends Twig

EXPLORER   ...

base.html.twig ×

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      ⌇ index.html.twig
    ⌇ base.html.twig
  > tests
  > translations
  > var
  > vendor
  ⚙ .env
  ☰ .env.test
  ◆ .gitignore
  {} composer.json
  ☰ symfony.lock

templates > ⌇ base.html.twig

```twig
1   <!DOCTYPE html>
2   <html>
3       <head>
4           <meta charset="UTF-8">
5           <title>{% block title %}Welcome!{% endblock %}</title>
6           {# Run `composer require symfony/webpack-encore-bundle`
7               and uncomment the following Encore helpers to start using
8           {% block stylesheets %}
9               {#{{ encore_entry_link_tags('app') }}#}
10          {% endblock %}
11
12          {% block javascripts %}
13              {#{{ encore_entry_script_tags('app') }}#}
14          {% endblock %}
15      </head>
16      <body>
17          {% block body %}{% endblock %}
18      </body>
19  </html>
20
```

Le layout de base - HTML Classique + Blocks twig

EXPLORER

> OPEN EDITORS

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    📄 base.html.twig
  > tests
  > translations
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  ☰ .env.test
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📄 base.html.twig ✕

templates > 📄 base.html.twig

```twig
1   <!DOCTYPE html>
2   <html>
3       <head>
4           <meta charset="UTF-8">
5           <title>{% block title %}Welcome!{% endblock %}</title>
6           {# Run `composer require symfony/webpack-encore-bundle`
7              and uncomment the following Encore helpers to start using
8           {% block stylesheets %}
9               {#{{ encore_entry_link_tags('app') }}#}
10          {% endblock %}
11
12          {% block javascripts %}
13              {#{{ encore_entry_script_tags('app') }}#}
14          {% endblock %}
15      </head>
16      <body>
17          {% block body %}{% endblock %}
18      </body>
19  </html>
20
```

Twig - les blocks - zones variables

base.html.twig ✕

templates > base.html.twig

```twig
1   <!DOCTYPE html>
2   <html>
3       <head>
4           <meta charset="UTF-8">
5           <title>{% block title %}Welcome!{% endblock %}</title>
6           {# Run `composer require symfony/webpack-encore-bundle`
7              and uncomment the following Encore helpers to start using
8           {% block stylesheets %}
9               {#{{ encore_entry_link_tags('app') }}#}
10          {% endblock %}
11
12          {% block javascripts %}
13              {#{{ encore_entry_script_tags('app') }}#}
14          {% endblock %}
15      </head>
16      <body>
17          {% block body %}{% endblock %}
18      </body>
19  </html>
20
```

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    - index.html.twig
  - base.html.twig
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- .gitignore
- composer.json
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Twig - les blocks - nommage personnalisée

EXPLORER   ...

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      contact.html.twig
      index.html.twig
    base.html.twig
  > tests
  > translations
  > var
  > vendor
  ⚙ .env
  ☰ .env.test
  ◆ .gitignore
  {} composer.json

index.html.twig ●

templates > pages > index.html.twig

```twig
1   {% extends 'base.html.twig' %}
2
3   {% block title %}Hello HOME PAGE!{% endblock %}
4
5   {% block body %}
6   <style>
7       .example-wrapper {
8           margin: 1em auto;
9           max-width: 800px;
10          width: 95%;
11          font: 18px/1.5 sans-serif;
12      }
13      .example-wrapper code {
14          background: #F5F5F5;
15          padding: 2px 6px;
16      }
17  </style>
18
19  <div class="example-wrapper">
20      <h1>Hello {{ title }}! ✅</h1>
21
22      This friendly message is coming from:
23      <ul>
24          <li>
25              <a href="{{ path('home') }}">HOME</a>
26          </li>
27          <li>
28              <a href="{{ path('contact') }}">CONTACT</a>
29          </li>
30      </ul>
31  </div>
32  {% endblock %}
```

Exemple d'un gabarit Twig - HTML (vue)

index.html.twig •

templates > pages > index.html.twig

```twig
1   {% extends 'base.html.twig' %}
2
3   {% block title %}Hello HOME PAGE!{% endblock %}
4
5   {% block body %}
6   <style>
7       .example-wrapper {
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26          </li>
27          <li>
28              <a href="{{ path('contact') }}">CONTACT</a>
29          </li>
30      </ul>
31  </div>
32  {% endblock %}
33
```

Définition des blocks Twig

∨ UBO-SF-2021
  > bin
  > config
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      contact.html.twig
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  > tests
  > translations
  > var
  > vendor
  ⚙ .env
  ≡ .env.test
  ◇ .gitignore
  {} composer.json
  phpunit.xml.dist
  ≡ symfony.lock

templates > pages > index.html.twig

```twig
1   {% extends 'base.html.twig' %}
2
3   {% block title %}Hello HOME PAGE!{% endblock %}
4
5   {% block body %}
6   <style>
7       .example-wrapper {
8           margin: 1em auto;
9           max-width: 800px;
10          width: 95%;
11          font: 18px/1.5 sans-serif;
12      }
13      .example-wrapper code {
14          background: #F5F5F5;
15          padding: 2px 6px;
16      }
17  </style>
18
19  <div class="example-wrapper">
20      <h1>Hello {{ title }}! ✅</h1>
21
22      This friendly message is coming from:
23      <ul>
24          <li>
25              <a href="{{ path('home') }}">HOME</a>
26          </li>
27          <li>
28              <a href="{{ path('contact') }}">CONTACT</a>
29          </li>
30      </ul>
31  </div>
32  {% endblock %}
```

HTML classique

Utiles

- Extends - https://twig.symfony.com/doc/3.x/tags/extends.html

- Include - https://twig.symfony.com/doc/3.x/tags/include.html

- parent() - https://twig.symfony.com/doc/3.x/functions/parent.html

- Conditions - https://twig.symfony.com/doc/3.x/tags/if.html

- Boucles - https://twig.symfony.com/doc/3.x/tags/for.html

- … - https://twig.symfony.com/doc/3.x/

Symfony

Entitées (base de données)

https://symfony.com/doc/current/doctrine.html#creating-an-entity-class

Préparation de la BDD

1. Lancer le service (MySQL ou autre)

2. Créer une base de données et l'utilisateur

3. Configuration symfony :

```
// fichier .env
DATABASE_URL="postgresql://db_user:db_password@127.0.0.1:5432/db_name?serverVersion=13&charset=utf8"
```

Générateur

// création de l'entité (table)
php bin/console make:entity
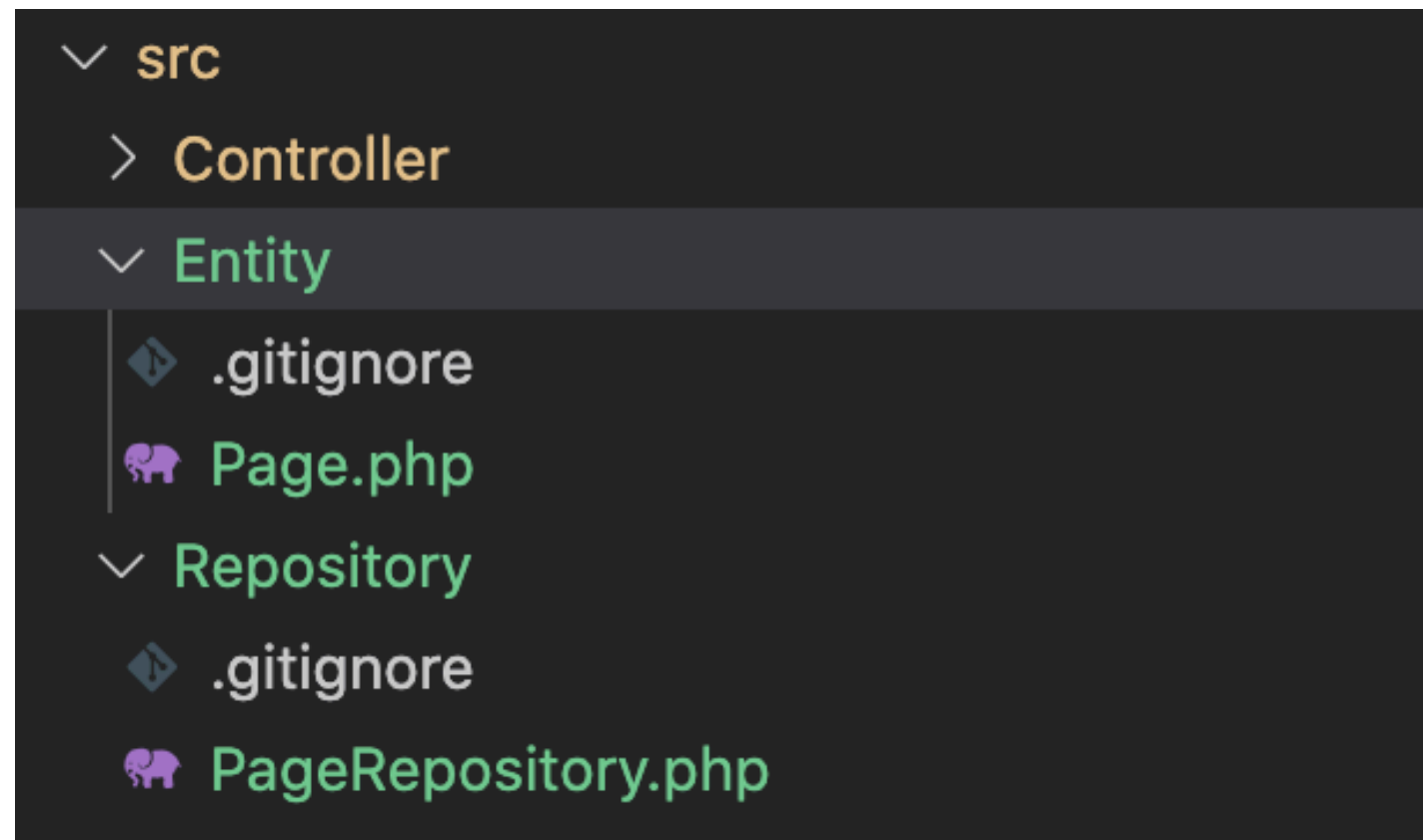// … Suivre les indications (lire !)

// Préparer la migration
php bin/console make:migration

//Générer la table en BDD
php bin/console doctrine:migrations:migrate

// *Alimenter de quelques données sa table*

Fichiers générés

Entity = représentation de la table générée en POO PHP

Repository = gestionnaire de table (CREATE, READABLE,UPDATE,DELETTE) - **CRUD**

Exemple d'usage
Création d'un gestionnaire de page

```php
// ...
use Symfony\Component\Routing\Annotation\Route;
use App\Entity\Page;

class PagesController extends AbstractController {
// ...
```

```php
    /**
     * @Route("/page/{id}", name="page")
     */
    public function page(int $id): Response {
        $repository = $this->getDoctrine()->getRepository(Page::class);
        $Page = $repository->find($id);

        return $this->render('pages/page.html.twig', [
            'title' => $Page->getTitle(),
            'content' => $Page->getContent(),
        ]);
    }
```

Le CRUD
Create / Readable / Update / Delete

```
// génération d'un formulaire
// PageType = nom au choix
php bin/console make:form PageType
// … Suivre les indications (lire !)
```

Le CRUD
Create / Readable / Update / Delete

```php
namespace App\Form;

use App\Entity\Page;
use Symfony\Component\Form\AbstractType;
use Symfony\Component\Form\FormBuilderInterface;
use Symfony\Component\OptionsResolver\OptionsResolver;

class PageType extends AbstractType
{
    public function buildForm(FormBuilderInterface $builder, array $options)
    {
        $builder
            ->add('title')
            ->add('content')
            ->add('created_at')
        ;
    }

    public function configureOptions(OptionsResolver $resolver)
    {
        $resolver->setDefaults([
            'data_class' => Page::class,
        ]);
    }
}
```

Le CRUD
Create / Readable / Update / Delete

```php
namespace App\Controller;

use Symfony\Bundle\FrameworkBundle\Controller\AbstractController;
use Symfony\Component\HttpFoundation\Response;
use Symfony\Component\HttpFoundation\Request;
use Symfony\Component\Routing\Annotation\Route;
use App\Entity\Page;
use App\Entity\Portfolio;
use App\Form\PageType;

use Symfony\Component\Validator\Constraints as Assert;
```

Le CRUD
Create / Readable / Update / Delete

```php
/**
 * @Route("/createpage", name="createpage")
 */
public function createpage(Request $request): Response {
    $page = new Page();
    $form = $this->createForm(PageType::class, $page);
    $form->handleRequest($request);

    if($form->isSubmitted() && $form->isValid())
    {
        $entityManager = $this->getDoctrine()->getManager();
        $entityManager->persist($page);
        $entityManager->flush();
    }

    return $this->render("pages/createpage.html.twig", [
        "form_title" => "Ajouter une page",
        "form_product" => $form->createView(),
    ]);
}
```

Création d'une method dans le controller

Le CRUD
Create / Readable / Update / Delete

```twig
{% extends 'base.html.twig' %}

{% block body %}

    <h3>{{ form_title }}</h3>
    {{ form(form_product) }}


{% endblock %}
```

Le CRUD
Create / Readable / Update / Delete

```php
/**
 * @Route("/createpage/{id}", name="updatepage")
 */
public function updatepage(Request $request, int $id): Response {
    $entityManager = $this->getDoctrine()->getManager();
    $page = $entityManager->getRepository(Page::class)->find($id);
    $form = $this->createForm(PageType::class, $page);
    $form->handleRequest($request);

    if($form->isSubmitted() && $form->isValid())
    {
        $entityManager->flush();
    }

    return $this->render("pages/updatepage.html.twig", [
        "form_title" => "Modifier une page",
        "form_product" => $form->createView(),
    ]);
```

Création d'une method dans le controller

Le CRUD
Create / Readable / Update / Delete

```php
/**
 * @Route("/delpage/{id}", name="delpage")
 */
public function delpage(int $id): Response {
    $entityManager = $this->getDoctrine()->getManager();
    $page = $entityManager->getRepository(Page::class)->find($id);

    $entityManager->remove($page);
    $entityManager->flush();

    return $this->redirectToRoute("/");
}
```

```twig
<a href="{{ path('delpage', {'id': 12}) }}">Supprimer</a>
```

Création d'une method dans le controller

Utiles

- https://symfony.com/doc/current/form/form_customization.html

- https://symfony.com/doc/current/bundles/SensioGeneratorBundle/commands/generate_doctrine_crud.html

- https://symfony.com/doc/current/bundles/EasyAdminBundle/crud.html