Atelier 1- symfony
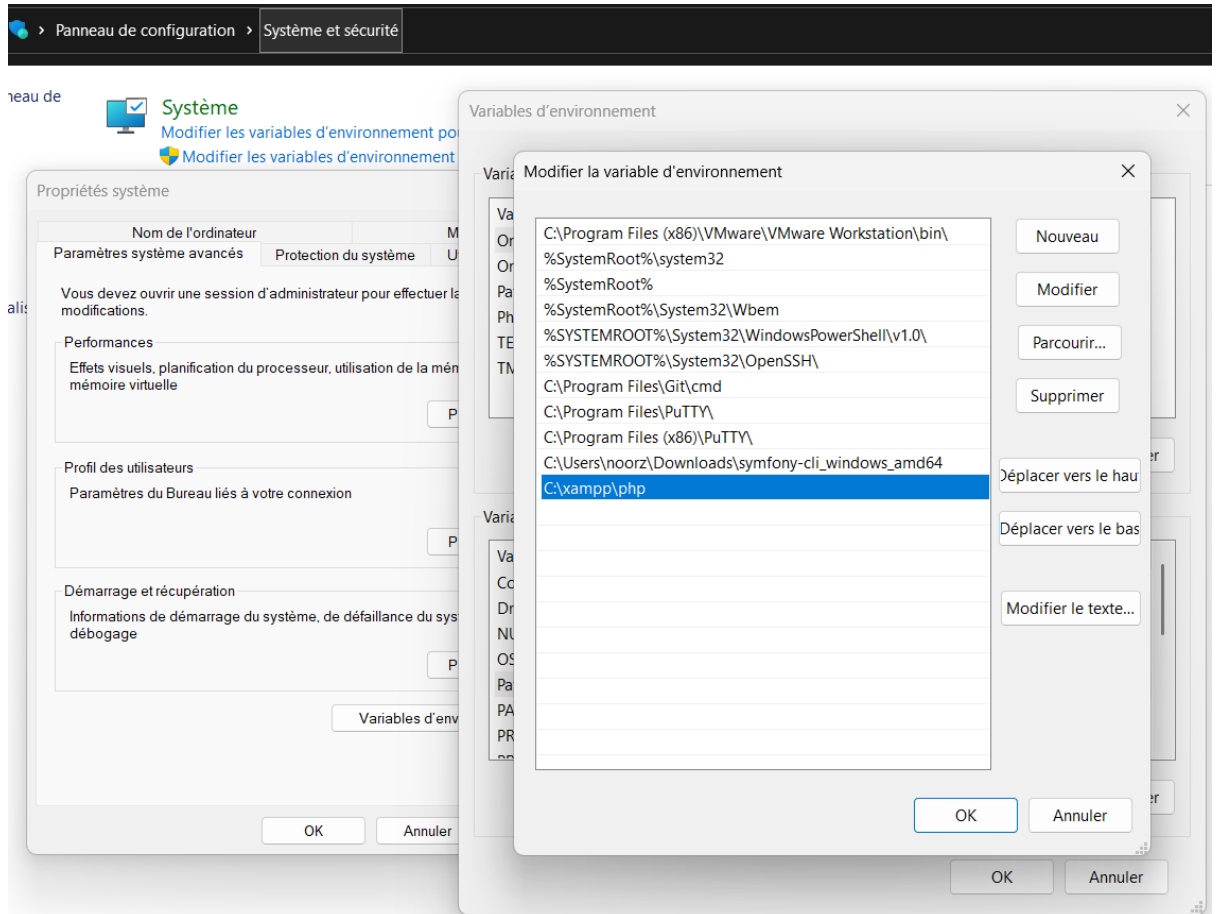
- modification variable d'environnement

- vérification après installation php et composer :
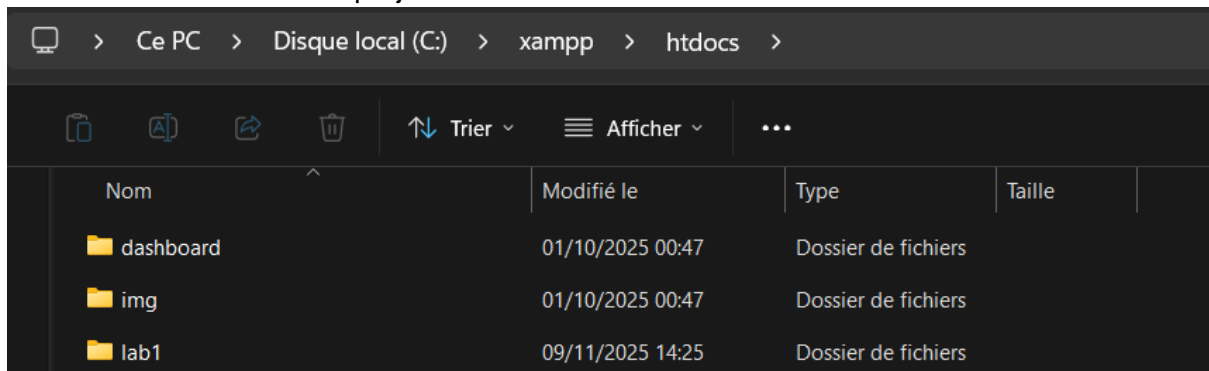
- creation projet

```
C:\Users\noorz>cd C:\xampp\htdocs

C:\xampp\htdocs>composer create-project symfony/website-skeleton lab1
Creating a "symfony/website-skeleton" project at "./lab1"
Installing symfony/website-skeleton (v6.1.99)
  - Installing symfony/website-skeleton (v6.1.99): Extracting archive
Created project in C:\xampp\htdocs\lab1
Loading composer repositories with package information
Updating dependencies
Lock file operations: 1 install, 0 updates, 0 removals
  - Locking symfony/flex (v2.9.0)
Writing lock file
Installing dependencies from lock file (including require-dev)
Package operations: 1 install, 0 updates, 0 removals
  - Downloading symfony/flex (v2.9.0)
  - Installing symfony/flex (v2.9.0): Extracting archive
Generating optimized autoload files
1 package you are using is looking for funding.
Use the `composer fund` command to find out more!
```

- vérification dossier projet

Nom	Modifié le	Type	Taille
📁 dashboard	01/10/2025 00:47	Dossier de fichiers	
📁 img	01/10/2025 00:47	Dossier de fichiers	
📁 lab1	09/11/2025 14:25	Dossier de fichiers	

Ce PC > Disque local (C:) > xampp > htdocs >

- ouvrir le projet dans vscode

```
C:\xampp\htdocs>cd lab1

C:\xampp\htdocs\lab1>code .

C:\xampp\htdocs\lab1>symfony server:start

 [WARNING] run "symfony.exe server:ca:install" first if you want to run the web server with TLS support, or use "--p12
 " or "--no-tls" to avoid this warning

Following PHP-CGI log file (C:\Users\noorz\.symfony5\log\5788d491c625c26fde0d98568979f8c0815b4c25\79ca75f9e90b4126a5955a33ea6a41ec5e854698.log)
Following Web Server log file (C:\Users\noorz\.symfony5\log\5788d491c625c26fde0d98568979f8c0815b4c25.log)

 [WARNING] The local web server is optimized for local development and MUST never be used in a production setup.

 [WARNING] Please note that the Symfony CLI only listens on 127.0.0.1 by default since version 5.10.3.
           You can use the --allow-all-ip or --listen-ip flags to change this behavior.

 [OK] Web server listening
      The Web server is using PHP CGI 8.2.12
      http://127.0.0.1:8000
```
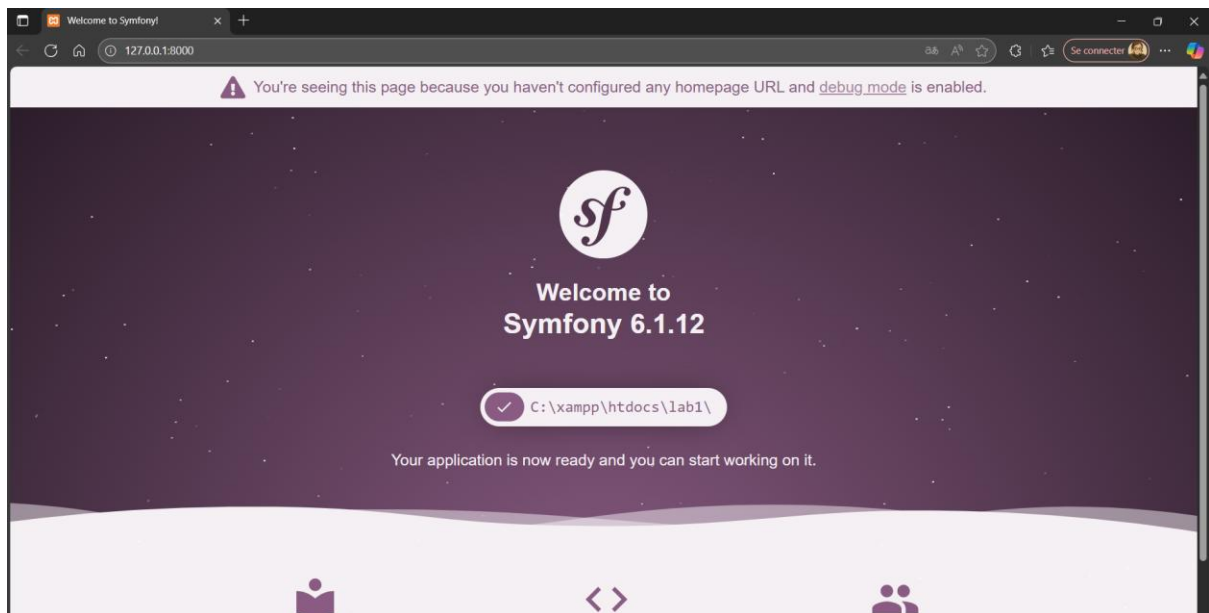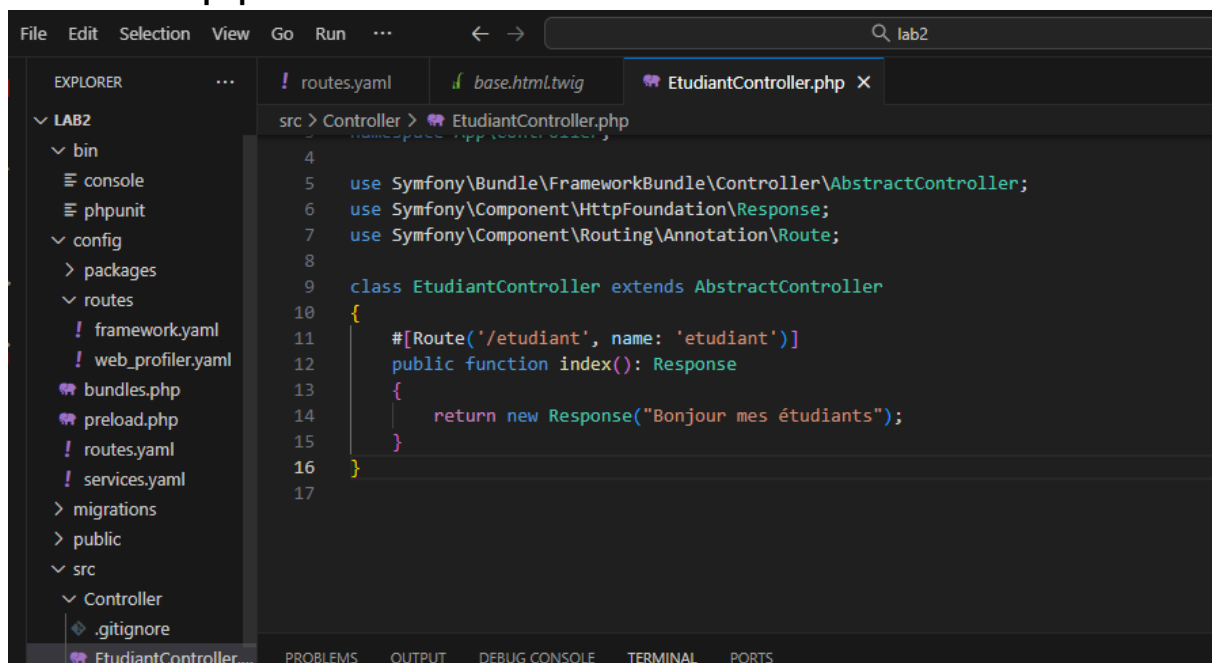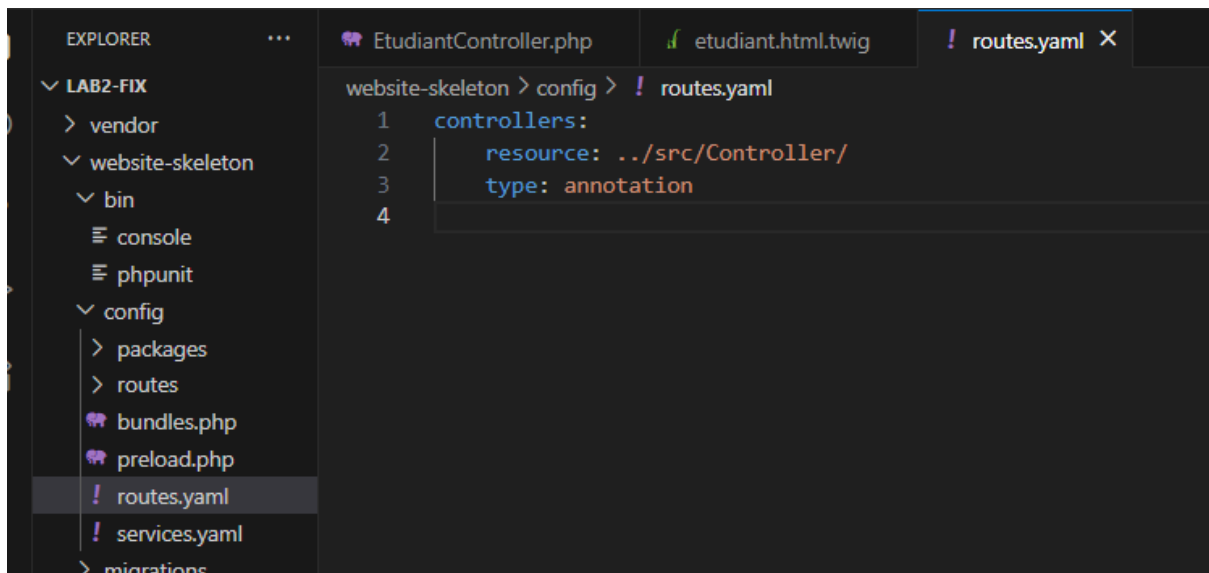
- test

Atelier 2- symfony
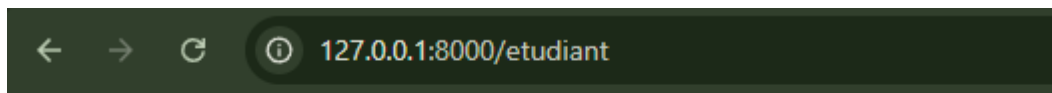
- création d'un contrôleur etudiant

php bin/console make:controller EtudiantController

- vérification route

- test

Bonjour mes étudiants

- création une méthode pour affichage etudiant by id

```php
#[Route ('/etudiant/{id}', name:'affiche_etudiant', requirements: ['id' => '\d+'])]
public function affiche_etudiant($id): Response
{
    return new Response ("Bonjour étudiant numéro: " .$id);
}
```
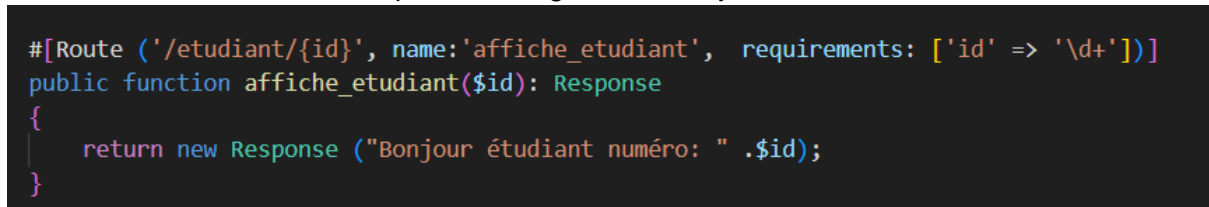
- test
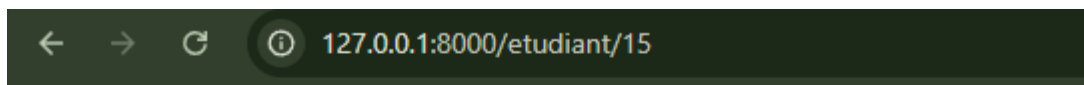
Bonjour étudiant numéro: 15
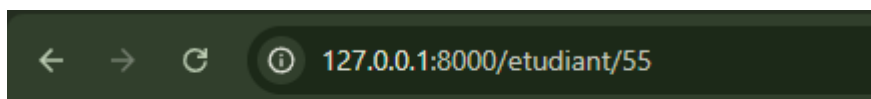
Bonjour étudiant numéro: 55

- creation méthode pour l'affichage etudiant by nom

```php
#[Route('/etudiant/{name}', name: 'etudiant_name', requirements: ['name' => '[a-zA-Z]+'])]
public function etudiantNom(string $name): Response
{
    return $this->render('etudiant/etudiant.html.twig', ['name' => $name]);
}
```

- l'appel vers une page frontend twig

templates > etudiant > ⓕ etudiant.html.twig > ⊘ html

```html
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta name="viewport" content="width=device-width, initial-scale=1.0">
6       <title>Document</title>
7   </head>
8   <body>
9       Le nom de l'étudiant est <b> {{ name }} </b>
10  </body>
11  </html>
```
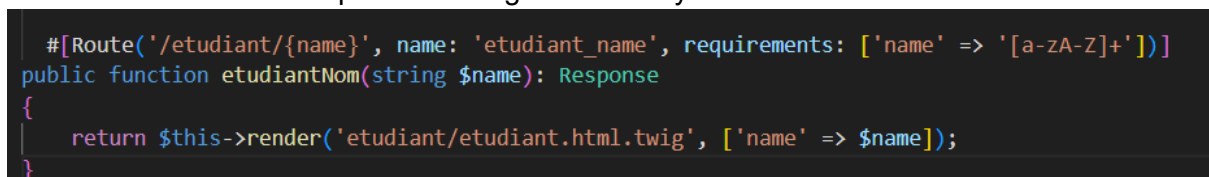
- test

127.0.0.1:8000/etudiant/noor
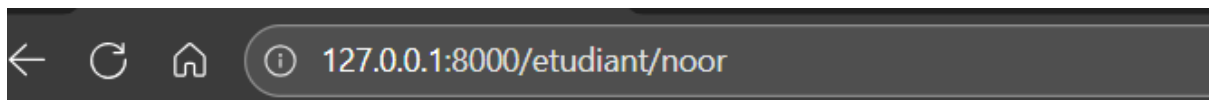
Le nom de l'étudiant est **noor**

Atelier 3 -Symfony

- creation controller

src > Controller > 🐘 EtudiantController.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 EtudiantController extends AbstractController
10  {
11      #[Route('/etudiant', name: 'app_etudiant')]
12      public function index(): Response
13      {
14          return $this->render('etudiant/index.html.twig', [
15              'controller_name' => 'EtudiantController',
16          ]);
17      }
```

- creation méthode de liste étudiants

```php
    #[Route('/list', name: 'list_etudiant')]
    public function list_etudiant(): Response
    {   $etudiants = array ("ali","med");
        return $this->render('etudiant/list.html.twig',[
            'etudiants' => $etudiants,
        ]);
    }
}
```

- création d'une vue d''affichage frontend dans list.html.twig

```
EtudiantController.php ×    list.html.twig ×    index.html.twig

templates > etudiant >  list.html.twig >  html >  body >  h1
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="UTF-8">
5        <meta name="viewport" content="width=device-width, initial-scale=1.0">
6        <title>list of student</title>
7    </head>
8    <body>
9        <h1>Liste des Étudiants</h1>
10
11       {% if etudiants is empty %}
12           <p style="color: ■red;">Le tableau est vide</p>
13       {% else %}
14           <ul>
15               {% for etudiant in etudiants %}
16                   <li>{{ etudiant|upper }}</li>
17               {% endfor %}
18           </ul>
19       {% endif %}
20   </body>
21   </html>
```

- test en cas tableau remplie

```
:)  list of student                    ×   +

←  C  ⌂     ⓘ  127.0.0.1:8000/list
```

Liste des Étudiants

- ALI
- MED
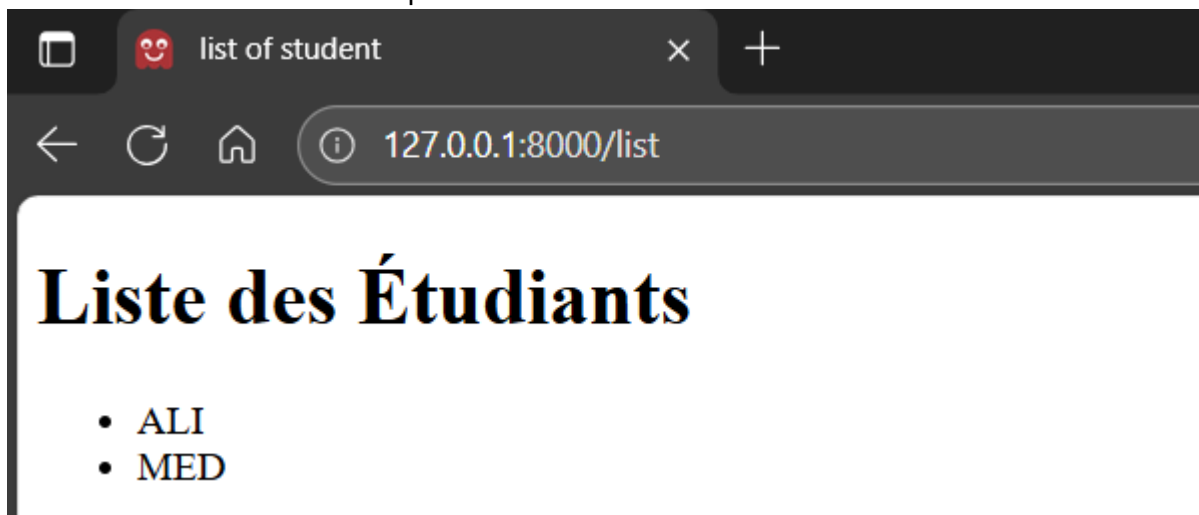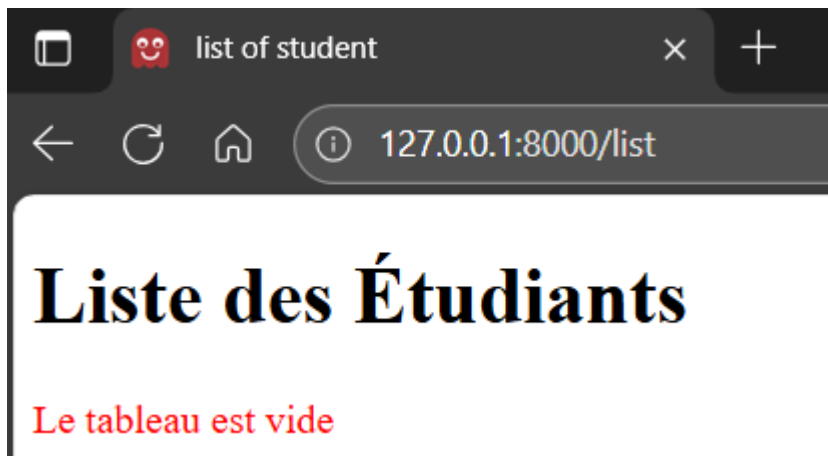
- test en cas de tableau est vide

```
{   $etudiants = array ();
    return $this->render('etudiant/list.html.twig',[
        'etudiants' => $etudiants,
    ]);
}
```

Liste des Étudiants

Le tableau est vide

- création du tableau associatif


```php
{
    }
    }

    #[Route('/list', name: 'list_etudiant')]
    public function list_etudiant(): Response
    {   $etudiants = array ("ali","med","islem");
        $modules = array (
        array("nom" => "Symfony",
                "id" => 1,
                "enseignant" => "Ali",
                "nbrHeures" => 42,
                "date" => "12-12-2021"
        ),
        array("nom" => "JEE",
                "id" => 2,
                "enseignant" => "Med",
                "nbrHeures" => 31,
                "date" => "12-10-2021"
        ),
        array("nom" => "BD",
                "id" => 3,
                "enseignant" => "Islem",
                "nbrHeures" => 21,
                "date" => "12-09-2021"
        )
    );
        return $this->render('etudiant/list.html.twig',[
            'etudiants' => $etudiants, 'listeModules'=> $modules
        ]);
    }
```

- structure du tableau en frontend dans notre vue list.html.twig

```html
<h2>Liste des modules</h2>
<table>
    <thead>
        <tr>
            <th>ID</th>
            <th>Nom</th>
            <th>Enseignant</th>
            <th>Heures</th>
            <th>Date</th>
        </tr>
    </thead>
    <tbody>
        {% for module in listeModules %}
        <tr>
            <td>{{ module.id }}</td>
            <td>{{ module.nom }}</td>
            <td>{{ module.enseignant }}</td>
            <td>{{ module.nbrHeures }}</td>
            <td>{{ module.date }}</td>
        </tr>
        {% endfor %}
    </tbody>
</table>
```

- test

list of student   ×   +

127.0.0.1:8000/list

Liste des Étudiants

- ALI
- MED
- ISLEM

Liste des modules

ID Module	Nom	Enseignant	Heures	Date
1	Symfony	Ali	42	12-12-2021
2	JEE	Med	31	12-10-2021
3	BD	Is	21	12-09-2021

- création une méthode affectation

```php
#[Route('/affectation', name: 'affectation')]
public function affecter(): Response
{
    return $this->render('etudiant/affecter.html.twig');
}
```

- page de vue affecter.html.twig

```
EtudiantController.php        affecter.html.twig ×        list.html.twig

templates > etudiant > affecter.html.twig > html
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="UTF-8">
5        <meta name="viewport" content="width=device-width, initial-scale=1.0">
6        <title>Affectation</title>
7    </head>
8
9    <body>
10       <h1> Affectation </h1>
11
12   </body>
13   </html>
```

- test: le clique de lien en page list.html.twig nous rend à la page d'affectation.html.twig

Liste des Étudiants

- ALI
- MED
- ISLEM

Liste des modules

ID Module	Nom	Enseignant	Heures	Date	Affectation
1	Symfony	Ali	42	12-12-2021	Affectation
2	JEE	Med	31	12-10-2021	Affectation
3	BD	Islem	21	12-09-2021	Affectation

Affectation
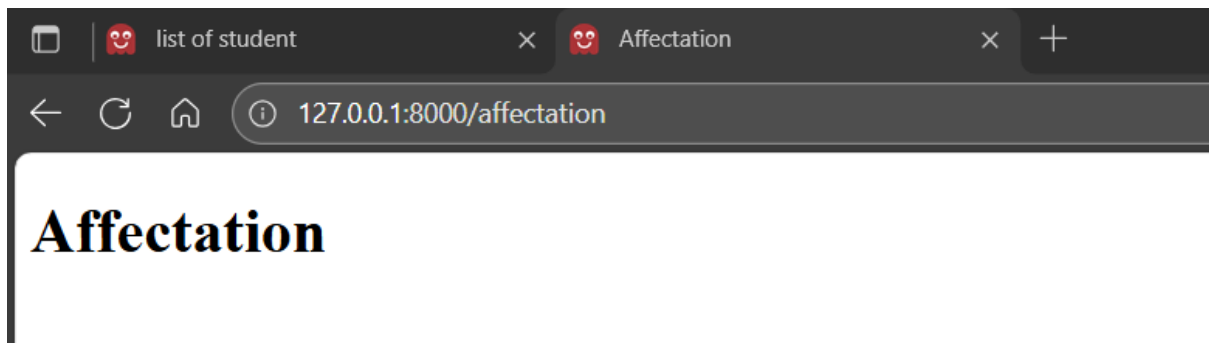
- création de la page père auquel les autre pages héritent

```
EtudiantController.php      layout.html.twig ✕      index.html.twig      list.html.twi

templates > etudiant >  layout.html.twig > ⊘ html > ⊘ head > ⊘ link
  1    <html>
  2
  3    <head>
  4
  5    <meta charset="utf-8"/>
  6    <title>{% block title %} Modules {% endblock %}</title>
  7    {% block stylesheets %}
  8    <link rel="stylesheet" href="{{ asset('css/style.css') }}"/>
  9    {% endblock %}
 10    </head>
 11
 12    <body>
 13    <h1>Les modules de Tek-Up</h1>
 14    {% block body %}
 15    test
 16    {% endblock %}
 17    </body>
 18    </html>
```
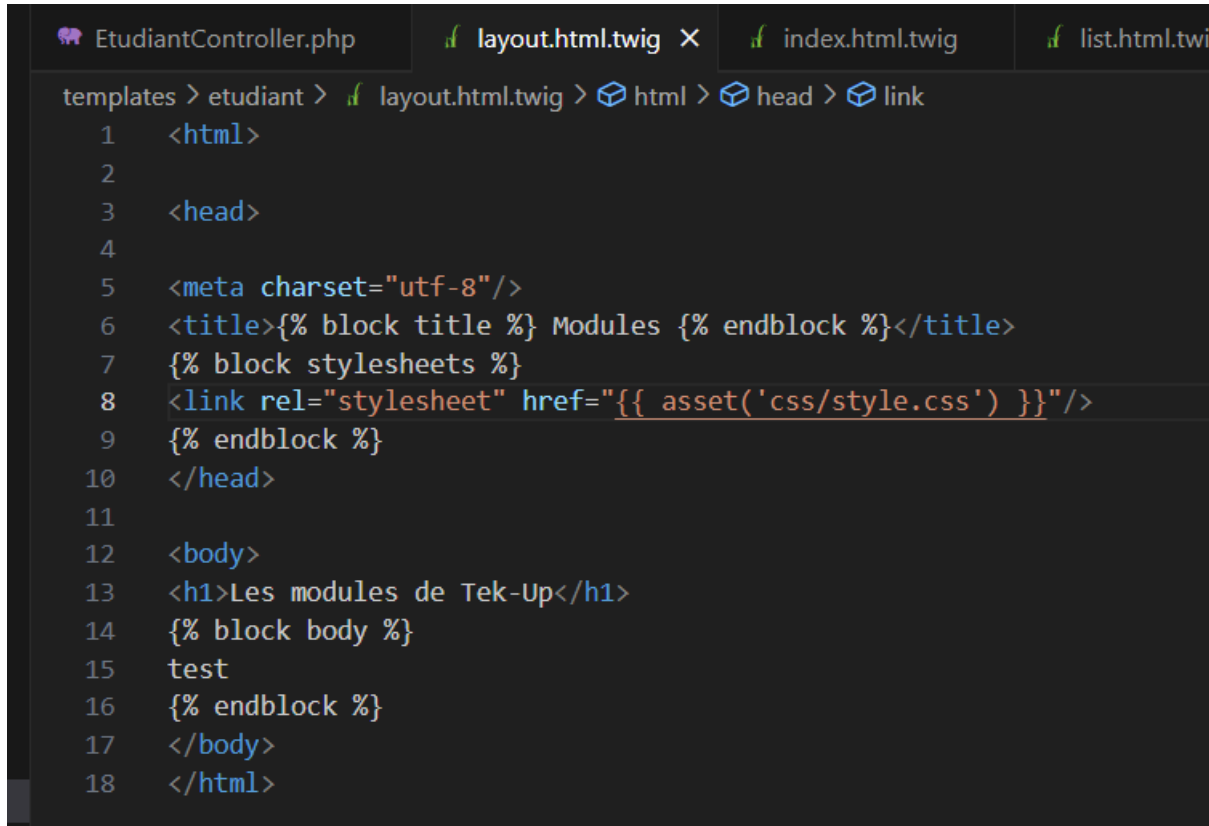
- création de la page fils extend de layout

```
EtudiantController.php        layout.html.twig          index.html.twig

templates > etudiant >  index.html.twig
  1    {% extends 'etudiant/layout.html.twig' %}
  2
  3    {% block title %}
  4        {{ parent() }} - Accueil
  5    {% endblock %}
  6
  7    {% block body %}
  8        <h1>Accueil</h1>
  9        <p>OK</p>
 10    {% endblock %}
```
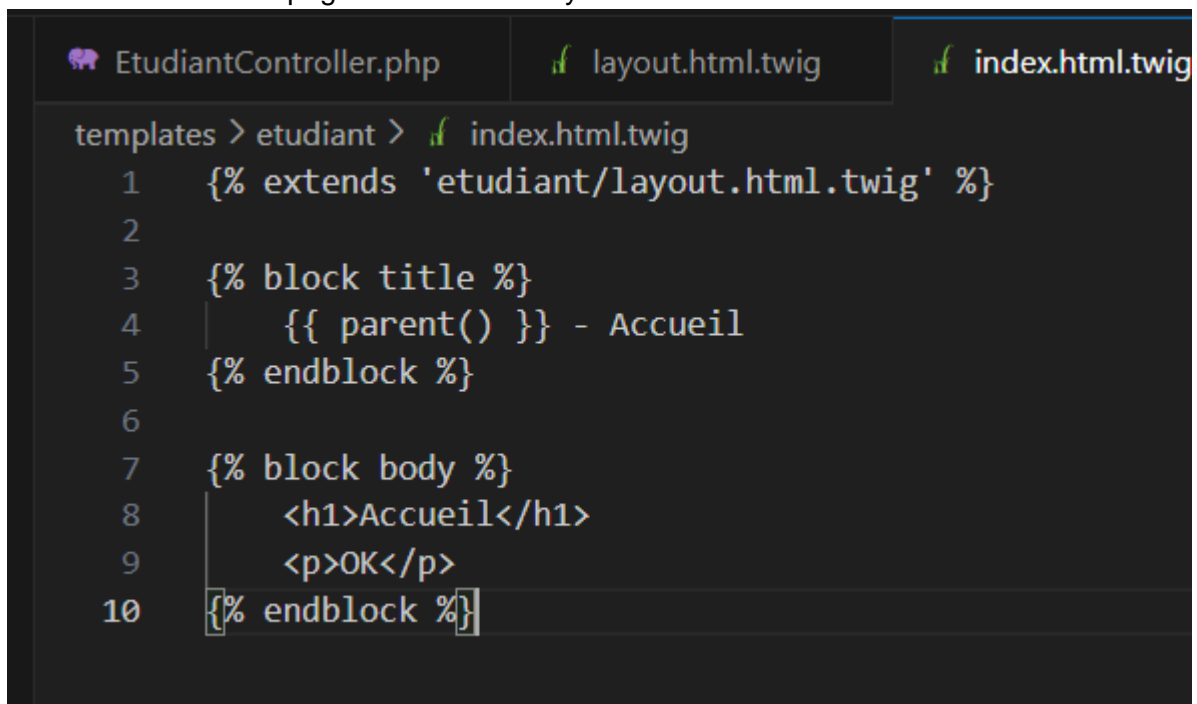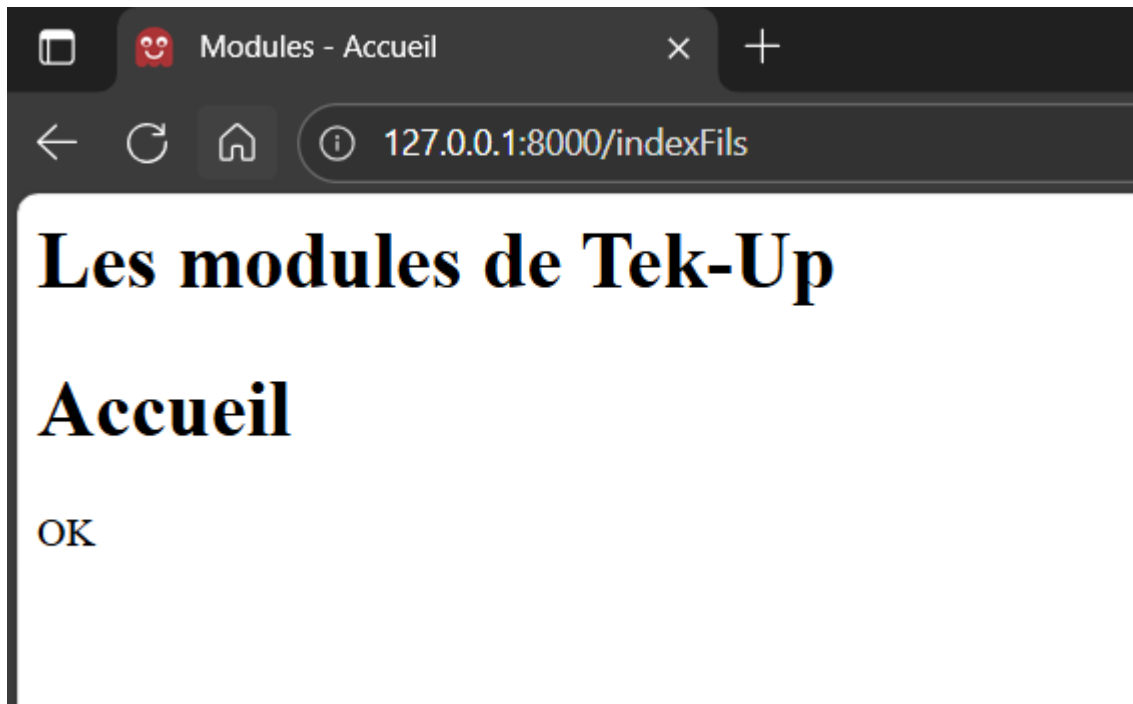
- création de route de fils
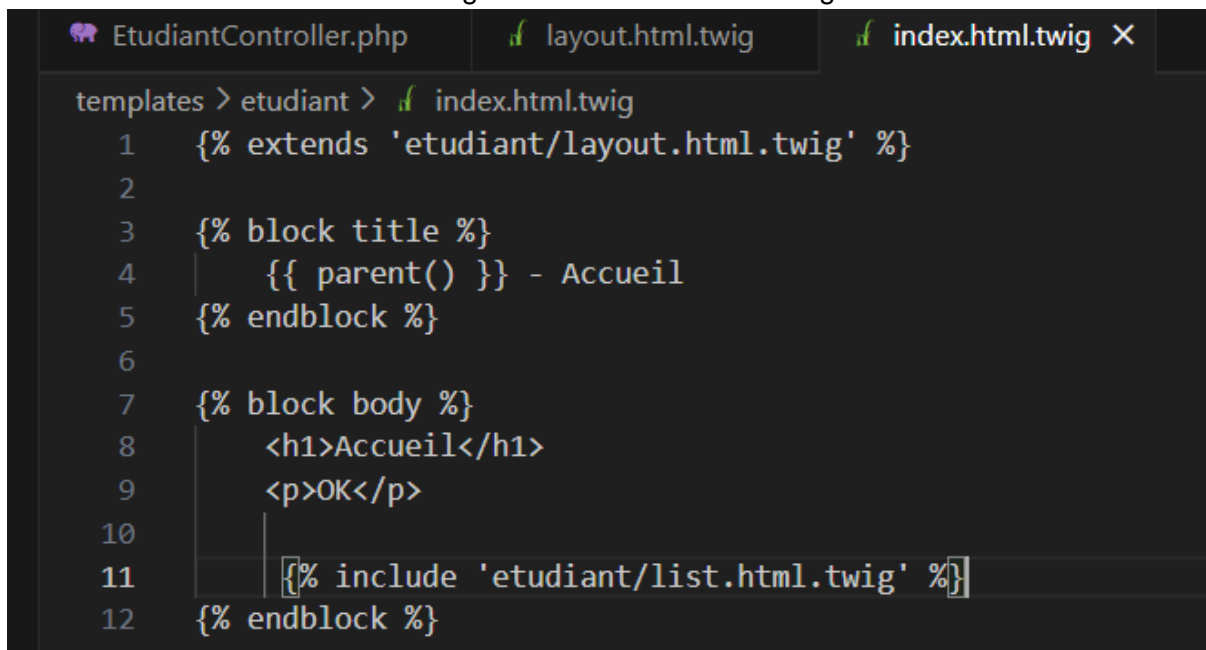
```
51
52        #[Route('/indexFils', name: 'indexfils')]
53        public function indexFils(): Response
54        {
55            return $this->render('etudiant/index.html.twig');
56        }
```

- test

- le contenu de la list.html.twig inclus dans index.html.twig

```
EtudiantController.php      layout.html.twig      index.html.twig  ×

templates > etudiant >  index.html.twig
    1      {% extends 'etudiant/layout.html.twig' %}
    2
    3      {% block title %}
    4          {{ parent() }} - Accueil
    5      {% endblock %}
    6
    7      {% block body %}
    8          <h1>Accueil</h1>
    9          <p>OK</p>
   10
   11          {% include 'etudiant/list.html.twig' %}
   12      {% endblock %}
```

- besoin de variables utilisé en list.html.twig on les passe par la modification de contrôleur

```php
    class EtudiantController extends AbstractController
    {
        #[Route('/etudiant', name: 'app_etudiant')]
        public function index(): Response
        { $etudiants = array("ali", "med", "islem");
          $modules = array(
            array("nom" => "Symfony",
                  "id" => 1,
                  "enseignant" => "Ali",
                  "nbrHeures" => 42,
                  "date" => "12-12-2021"
            ),
            array("nom" => "JEE",
                  "id" => 2,
                  "enseignant" => "Med",
                  "nbrHeures" => 31,
                  "date" => "12-10-2021"
            ),
            array("nom" => "BD",
                  "id" => 3,
                  "enseignant" => "Islem",
                  "nbrHeures" => 21,
                  "date" => "12-09-2021"
            )
        );
            return $this->render('etudiant/index.html.twig', [
            'controller_name' => 'EtudiantController',
            'etudiants' => $etudiants,
            'listeModules' => $modules
        ]);
        }
```

- test

Les modules de Tek-Up

Accueil

OK

Liste des Étudiants

- ALI
- MED
- ISLEM

Liste des modules

ID Module	Nom	Enseignant	Heures	Date	Affectation
1	Symfony	Ali	42	12-12-2021	Affectation
2	JEE	Med	31	12-10-2021	Affectation
3	BD	Islem	21	12-09-2021	Affectation

- modif index Fils

```php
src > Controller >  EtudiantController.php
10     {
73
74         #[Route('/indexFils', name: 'indexfils')]
75         public function indexFils(): Response
76         {
77             $etudiants = array("ali", "med", "islem");
78
79         $modules = array(
80             array("nom" => "Symfony",
81                   "id" => 1,
82                   "enseignant" => "Ali",
83                   "nbrHeures" => 42,
84                   "date" => "12-12-2021"
85             ),
86             array("nom" => "JEE",
87                   "id" => 2,
88                   "enseignant" => "Med",
89                   "nbrHeures" => 31,
90                   "date" => "12-10-2021"
91             ),
92             array("nom" => "BD",
93                   "id" => 3,
94                   "enseignant" => "Islem",
95                   "nbrHeures" => 21,
96                   "date" => "12-09-2021"
97             )
98         );
99             return $this->render('etudiant/index.html.twig', [
100            'etudiants' => $etudiants,
101            'listeModules' => $modules
102        ]);
```

Tabs: EtudiantController.php ×   layout.html.twig   index.html.twig

Browser: Modules - Accueil — 127.0.0.1:8000/indexFils

Les modules de Tek-Up

Accueil

OK

Liste des Étudiants

- ALI
- MED
- ISLEM

Liste des modules

ID Module	Nom	Enseignant	Heures	Date	Affectation
1	Symfony	Ali	42	12-12-2021	Affectation
2	JEE	Med	31	12-10-2021	Affectation
3	BD	Islem	21	12-09-2021	Affectation
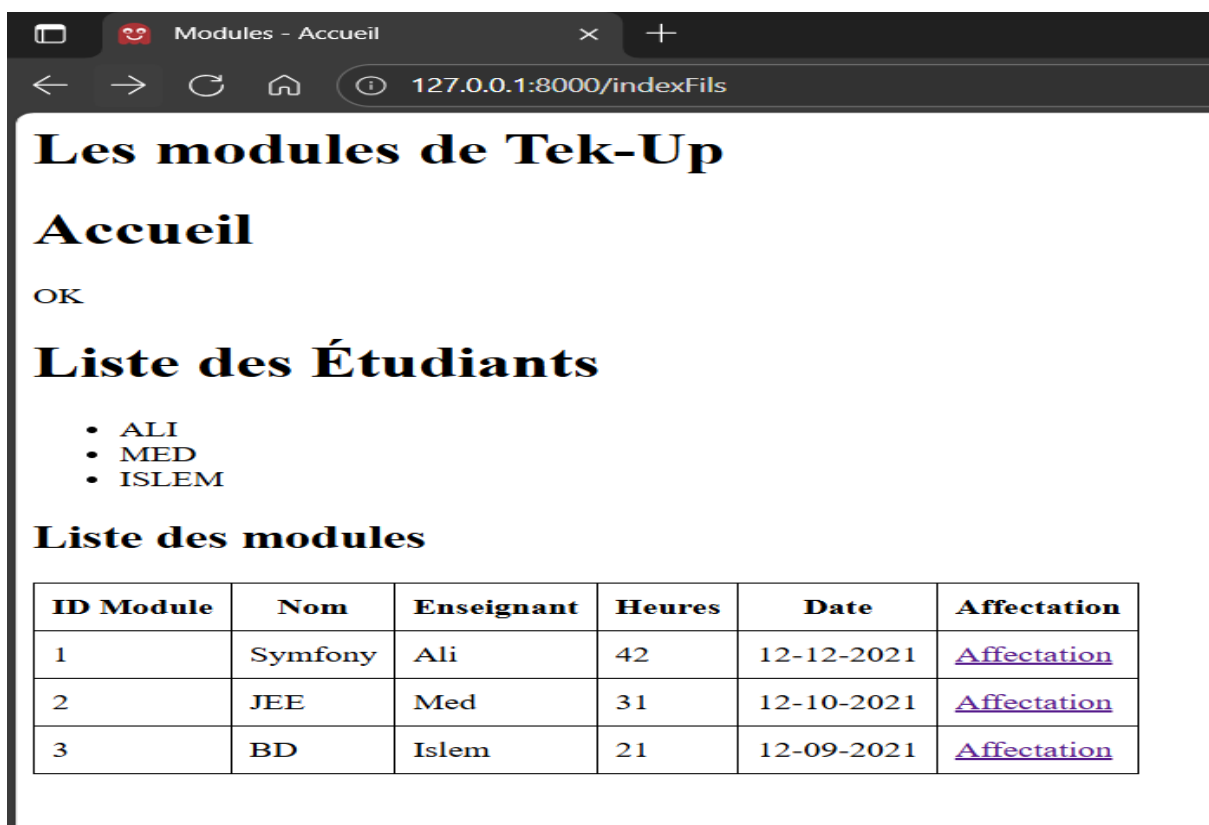
Atelier 4- symfony

- creation projet

```
C:\xampp\htdocs>composer create-project symfony/website-skeleton lab4
Creating a "symfony/website-skeleton" project at "./lab4"
```

- config fichier .env

```
⚙ .env          ✕
⚙ .env
17    ###> symfony/framework-bundle ###
18    APP_ENV=dev
19    APP_SECRET=44a11fe8096dcd22e2013c89c748236f
20    ###< symfony/framework-bundle ###
21
22    ###> doctrine/doctrine-bundle ###
23    # Format described at https://www.doctrine-project.org/projects/doctrine-dbal/en/latest/reference/
24    # IMPORTANT: You MUST configure your server version, either here or in config/packages/doctrine.ya
25    #
26    # DATABASE_URL="sqlite:///%kernel.project_dir%/var/data_%kernel.environment%.db"
27      DATABASE_URL="mysql://root@127.0.0.1:3306/voiture_location?serverVersion=8&charset=utf8mb4"
28    # DATABASE_URL="postgresql://app:!ChangeMe!@127.0.0.1:5432/app?serverVersion=16&charset=utf8"
29    ###< doctrine/doctrine-bundle ###
30
```

- création de la base de données

```
● PS C:\xampp\htdocs\lab4> symfony console doctrine:database:create
  Created database `voiture_location` for connection named default
```

- création du première table

```
● PS C:\xampp\htdocs\lab4> symfony console make:entity Voiture

  Your entity already exists! So let's add some new fields!
```

- création du attribut "série"

```
● PS C:\xampp\htdocs\lab4> symfony console make:entity Voiture

  Your entity already exists! So let's add some new fields!

  New property name (press <return> to stop adding fields):
  > serie

  Field type (enter ? to see all types) [string]:
  > string

  Field length [255]:
  > 50

  Can this field be null in the database (nullable) (yes/no) [no]:
  > no
```

- création du attribut "date mise en marche"

```
Add another property? Enter the property name (or press <return> to stop adding fields):
> dateMiseEnMarche

Field type (enter ? to see all types) [string]:
> datetime

Can this field be null in the database (nullable) (yes/no) [no]:
> no

updated: src/Entity/Voiture.php
```

- création attribut "modèle"

```
Add another property? Enter the property name (or press <return> to stop adding fields):
> modele

Field type (enter ? to see all types) [string]:
> string

Field length [255]:
> 100

Can this field be null in the database (nullable) (yes/no) [no]:
> no

updated: src/Entity/Voiture.php
```

- création attribut "prix jour"

```
Add another property? Enter the property name (or press <return> to stop adding fields):
> prixJour

Field type (enter ? to see all types) [string]:
> float

Can this field be null in the database (nullable) (yes/no) [no]:
> no

updated: src/Entity/Voiture.php
```

- création de la table client

```
PS C:\xampp\htdocs\lab4> symfony console make:entity Client

Your entity already exists! So let's add some new fields!

New property name (press <return> to stop adding fields):
> cin

Field type (enter ? to see all types) [string]:
> integer

Can this field be null in the database (nullable) (yes/no) [no]:
> no

updated: src/Entity/Client.php

Add another property? Enter the property name (or press <return> to stop adding fields):
> nom

Field type (enter ? to see all types) [string]:
> string

Field length [255]:
> 100

Can this field be null in the database (nullable) (yes/no) [no]:
> no

updated: src/Entity/Client.php
```

```
Add another property? Enter the property name (or press <return> to stop adding fields):
> prenom

 Field type (enter ? to see all types) [string]:
> string

 Field length [255]:
> 100

 Can this field be null in the database (nullable) (yes/no) [no]:
> no

 updated: src/Entity/Client.php
```

```
Add another property? Enter the property name (or press <return> to stop adding fields):
> adresse
```

```
Field type (enter ? to see all types) [string]:
> string

Field length [255]:
> 100

Can this field be null in the database (nullable) (yes/no) [no]:
> no

updated: src/Entity/Client.php
```

- création de la table Location

```
PS C:\xampp\htdocs\lab4> symfony console make:entity Location

 Your entity already exists! So let's add some new fields!

 New property name (press <return> to stop adding fields):
> dateDebut

 Field type (enter ? to see all types) [string]:
> datetime

 Can this field be null in the database (nullable) (yes/no) [no]:
> no

 updated: src/Entity/Location.php

 Add another property? Enter the property name (or press <return> to stop adding fields):
> dateRetour

 Field type (enter ? to see all types) [string]:
> datetime

 Can this field be null in the database (nullable) (yes/no) [no]:
> no

 updated: src/Entity/Location.php

 Add another property? Enter the property name (or press <return> to stop adding fields):
> prix

 Field type (enter ? to see all types) [string]:
> float

 Can this field be null in the database (nullable) (yes/no) [no]:
> no

 updated: src/Entity/Location.php
```

- création des relations

```
● PS C:\xampp\htdocs\lab4> symfony console make:entity Location

  Your entity already exists! So let's add some new fields!

  New property name (press <return> to stop adding fields):
  > voiture

  Field type (enter ? to see all types) [string]:
  > relation

  What class should this entity be related to?:
  > voiture

 What type of relationship is this?
  ------------ ------------------------------------------------------------------
   Type         Description
  ------------ ------------------------------------------------------------------
   ManyToOne    Each Location relates to (has) one voiture.
                Each voiture can relate to (can have) many Location objects.
```

```
● PS C:\xampp\htdocs\lab4> symfony console make:entity Location

  Your entity already exists! So let's add some new fields!

  New property name (press <return> to stop adding fields):
  > client

  Field type (enter ? to see all types) [string]:
  > relation

  What class should this entity be related to?:
  > client

 What type of relationship is this?
  ------------ ------------------------------------------------------------------
   Type         Description
  ------------ ------------------------------------------------------------------
   ManyToOne    Each Location relates to (has) one client.
                Each client can relate to (can have) many Location objects.
```

- création migrations pour le mapping

```
● PS C:\xampp\htdocs\lab4> symfony console make:migration

  created: migrations/Version20251112182000.php

  ┌─────────┐
  │ Success!│
  └─────────┘

  Review the new migration then run it with symfony.exe console doctrine:migrations:migrate
  See https://symfony.com/doc/current/bundles/DoctrineMigrationsBundle/index.html
● PS C:\xampp\htdocs\lab4> symfony console doctrine:migrations:migrate

  WARNING! You are about to execute a migration in database "location_voiture" that could result in schema changes and data loss. Are
  wish to continue? (yes/no) [yes]:
  > yes

  [notice] Migrating up to DoctrineMigrations\Version20251112182000
  [notice] finished in 1829.9ms, used 20M memory, 1 migrations executed, 6 sql queries

  ┌──────────────────────────────────────────────────────────────────────────────────────┐
  │ [OK] Successfully migrated to version: DoctrineMigrations\Version20251112182000        │
  └──────────────────────────────────────────────────────────────────────────────────────┘
```


Table	Action					Lignes
☐ client	⭐	📋 Parcourir	🔧 Structure	🔍 Rechercher	🗃 Insérer	🗑 Vider	⊝ Supprimer
☐ doctrine_migration_versions	⭐	📋 Parcourir	🔧 Structure	🔍 Rechercher	🗃 Insérer	🗑 Vider	⊝ Supprimer
☐ location	⭐	📋 Parcourir	🔧 Structure	🔍 Rechercher	🗃 Insérer	🗑 Vider	⊝ Supprimer
☐ messenger_messages	⭐	📋 Parcourir	🔧 Structure	🔍 Rechercher	🗃 Insérer	🗑 Vider	⊝ Supprimer
☐ voiture	⭐	📋 Parcourir	🔧 Structure	🔍 Rechercher	🗃 Insérer	🗑 Vider	⊝ Supprimer
5 tables	Somme					

- insertion des données

Affichage des lignes 0 - 2 (total de 3, traitement en 0,0005 seconde(s).)

SELECT * FROM `voiture`

Profilage [Éditer en ligne] [Éditer] [Expliquer SQL] [Créer le code source PHP] [Actualiser]

Tout afficher | Nombre de lignes : 25 | Filtrer les lignes : Chercher dans cette table | Trier

Options supplémentaires

		id	serie	date_mise_en_marche	modele	prix_jour
☐	Éditer Copier Supprimer	1	1234	2025-09-11 19:35:57	BMW	100
☐	Éditer Copier Supprimer	2	5689	2025-11-11 09:36:52	FORD	50
☐	Éditer Copier Supprimer	3	9123	2025-10-12 19:37:48	AUDI	150

- création controller voiture

```
PS C:\xampp\htdocs\lab4> php bin/console make:controller VoitureController

 created: src/Controller/VoitureController.php
 created: templates/voiture/index.html.twig


 Success!


 Next: Open your new controller class and add some pages!
PS C:\xampp\htdocs\lab4>
```

- création de la page twig de notre contrôleur Voiture Controller

.env   VoitureController.php   listevoiture.html.twig   ClientRepository.php   Locati

templates > voiture > listevoiture.html.twig > html > body

```
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta name="viewport" content="width=device-width, initial-scale=1.0">
6       <title>Listes des voitures</title>
7   </head>
8   <body>
9
10
11  <h1>Listes des voitures</h1>
12  <table border="1">
13
14  <tr>
15
16     <td>Serie</td>
17     <td>Date Mise en Marche</td>
18     <td>Modele</td>
19  </tr>
20         {% for v in listeVoiture %}
21  <tr>
22
23     <td>{{ v.serie }}</td>
24     <td>{{ v.dateMiseEnMarche | date('d/m/Y') }}</td>
25     <td>{{ v.modele }}</td>
26  </tr>
27         {% endfor %}
28  </table>
29  |
30  </body>
31  </html>
```

- test

Listes des voitures

Serie	Date Mise en Marche	Modele
1234	11/09/2025	BMW
5689	11/11/2025	FORD
9123	12/10/2025	AUDI

- création form


```
PS C:\xampp\htdocs\lab4> php bin/console make:form

The name of the form class (e.g. FiercePizzaType):
> VoitureForm

The name of Entity or fully qualified model class name that the new form
> Voiture

created: src/Form/VoitureFormType.php


Success!
```

```php
> form > 🐙 VoitureFormType.php
1    <?php
2
3    namespace App\Form;
4
5    use App\Entity\Voiture;
6    use Symfony\Component\Form\AbstractType;
7    use Symfony\Component\Form\FormBuilderInterface;
8    use Symfony\Component\OptionsResolver\OptionsResolver;
9
10   class VoitureFormType extends AbstractType
11   {
12       public function buildForm(FormBuilderInterface $builder, array $options): void
13       {
14           $builder
15               ->add('serie')
16               ->add('dateMiseEnMarche')
17               ->add('modele')
18               ->add('prixJour')
19           ;
20       }
21
22       public function configureOptions(OptionsResolver $resolver): void
23       {
24           $resolver->setDefaults([
25               'data_class' => Voiture::class,
26           ]);
27       }
28   }
29
```

- ajout l'action addition voiture

- structure de la page twig addVoiture .html.twig


```php
#[Route('/addVoiture', name: 'add_voiture')]
public function addVoiture(Request $request, EntityManagerInterface $em)
{
    $voiture = new Voiture();
    $form = $this->createForm(VoitureForm::Class, $voiture);
    $form->handleRequest($request);
    if ($form->isSubmitted())
    {
        $em->persist($voiture);
        $em->flush();
        return $this->redirectToRoute( route: 'app_voiture');
    }

    return $this->render('voiture/addVoiture.html.twig', [
        'formV' => $form->createView(),
    ]);
}
}
```

```twig
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Ajout voiture</title>
</head>
<body>
    <h1>Formulaire Ajout voiture </h1>
    <form method="post">

        {{ form_widget(formV) }}
        <input type="submit" value="addVoiture">
    </form>
</body>
</html>
```

- test ajout voiture

- test

- ajout l'action delete dans le controller

```
#[Route('/voiture/{id}', name: 'voitureDelete') ]
public function delete(EntityManagerInterface $em, VoitureRepository$vr, $id): Response
{$voiture = $vr->find($id);
$em->remove($voiture);
$em->flush();
return $this->redirectToRoute( route: 'app_voiture');
}
```

- test de delete

- update voiture

Listes des voitures

Serie	Date Mise en Marche	Modele		
1234	10/11/2025	BMW	suppression	Mettre à jour
9123	03/11/2025	minicooper	suppression	Mettre à jour
rttre	01/01/2020	jg	suppression	Mettre à jour

Listes des voitures

Serie	Date Mise en Marche	Modele		
1234	10/11/2025	BMW	suppression	Mettre à jour
9123	03/11/2025	golf6	suppression	Mettre à jour
4986	08/01/2022	lagonna	suppression	Mettre à jour
5213	08/01/2022	renault	suppression	Mettre à jour

Atelier 5- symfony

- supprimer l'attribut modèle de l'entité voiture pour la rendre une entité Modèle
il suffit d'enlever les getters et setters à partir de la table voiture.
- créer une table Modele

```
PS C:\xampp\htdocs\tp_symfony\lab5> symfony console make:entity Modele

 Your entity already exists! So let's add some new fields!

 New property name (press <return> to stop adding fields):
 > libellé

 Field type (enter ? to see all types) [string]:
 > string

 Field length [255]:
 > 100

 Can this field be null in the database (nullable) (yes/no) [no]:
 > no

 updated: src/Entity/Modele.php

 Add another property? Enter the property name (or press <return> to stop adding fields):
```

```
Add another property? Enter the property name (or press <return> to stop adding fields):
> pays

Field type (enter ? to see all types) [string]:
> string

Field length [255]:
> 50

Can this field be null in the database (nullable) (yes/no) [no]:
> no

updated: src/Entity/Modele.php
```

- établir la relation ManyToOne

```
PS C:\xampp\htdocs\tp_symfony\lab5> php bin/console make:entity Voiture

    Your entity already exists! So let's add some new fields!

    New property name (press <return> to stop adding fields):
    > modele

    Field type (enter ? to see all types) [string]:
    > relation

    What class should this entity be related to?:
    > Modele
```

```
Relation type? [ManyToOne, OneToMany, ManyToMany, OneToOne]:
> ManyToOne

Is the Voiture.modele property allowed to be null (nullable)? (yes/no) [yes]:
> no

Do you want to add a new property to Modele so that you can access/update Voiture objects from it - e
.g. $modele->getVoitures()? (yes/no) [yes]:
> yes

A new property will also be added to the Modele class so that you can access the related Voiture obje
cts from it.

New field name inside Modele [voitures]:
> voitures

Do you want to activate orphanRemoval on your relationship?
A Voiture is "orphaned" when it is removed from its related Modele.
e.g. $modele->removeVoiture($voiture)

NOTE: If a Voiture may *change* from one Modele to another, answer "no".

Do you want to automatically delete orphaned App\Entity\Voiture objects (orphanRemoval)? (yes/no) [no
]:
> no
```

- mappage

```
PS C:\xampp\htdocs\tp_symfony\lab5> php bin/console doctrine:migrations:sync-metadata-storage

 [OK] Metadata storage synchronized


PS C:\xampp\htdocs\tp_symfony\lab5>   php bin/console doctrine:migrations:migrate

 WARNING! You are about to execute a migration in database "location_voiture" that could result in sch
 ema changes and data loss. Are you sure you wish to continue? (yes/no) [yes]:
 > yes


 [OK] Already at the latest version ("DoctrineMigrations\Version20251112182000")
```

Table ▲	Action
☐ **client**	⭐ 🗐 Parcourir 🏗 Stru
☐ **doctrine_migration_versions**	⭐ 🗐 Parcourir 🏗 Stru
☐ **location**	⭐ 🗐 Parcourir 🏗 Stru
☐ **messenger_messages**	⭐ 🗐 Parcourir 🏗 Stru
☐ **modele**	⭐ 🗐 Parcourir 🏗 Stru
☐ **voiture**	⭐ 🗐 Parcourir 🏗 Stru
6 tables	**Somme**

- ajout de modèle en utilisant le entitymanager depuis le repository

```
47    //    }
48    public function addModele(string $libelle, string $pays): Modele
49    {
50
51        $em = $this->getEntityManager();
52        $modele = new Modele();
53        $modele->setLibelle($libelle);
54        $modele->setPays($pays);
55
56        $em->persist($modele);
57        $em->flush();
58
59        return $modele;
60    }
61
62    }
```

- création de la méthode findby modèle dans le repository voiture ou elle va contenir une requête select pour récupérer les voiture par modele

```php
public function findByModele(int $modeleId): array
{
    $em = $this->getEntityManager();
    $query = $em->createQuery('
        SELECT v, m
        FROM App\Entity\Voiture v
        JOIN v.modele m
        WHERE m.id = :modeleId
        ORDER BY v.serie ASC
    ')
    ->setParameter('modeleId', $modeleId);

    return $query->getResult();
}
```

- création de la route correspondante dans le controlleur voiturecontroller

```php
#[Route('/list', name: 'modele_list')]
public function list(ModeleRepository $repo): Response
{
    $modeles = $repo->findAllModeles();

    // Affichage simple dans la page
    $output = '<h2>Liste des modèles</h2><ul>';

    foreach ($modeles as $m) {
        $output .= '<li>ID: ' . $m->getId() . ' | Libellé: ' . $m->getLibelle() . ' | Pays: ' . $m->getPays() .
        '</li>';
    }

    $output .= '</ul>';

    return new Response($output);
}
```

test

localhost:8000/modeles/list

Liste des modèles

localhost:8000/addVoiture

Formulaire Ajout voiture

Serie range rover
Date mise en marche
May ▾ 1 ▾ 2020 ▾
00 ▾ : 04 ▾
Modele Clio ▾
Prix jour 1505
addVoiture

Listes des voitures

Serie	Date Mise en Marche	Modele		
1234	10/11/2025		suppression	Mettre à jour
9123	03/11/2025		suppression	Mettre à jour
4986	08/01/2022		suppression	Mettre à jour
5213	08/01/2022		suppression	Mettre à jour
minicooper	01/01/2024		suppression	Mettre à jour
range rover	01/05/2020	Clio	suppression	Mettre à jour

Liste des modèles

- ID: 1 | Libellé: Clio | Pays: France

- update avec setparameter pour protéger les données et empêcher les injection sql

```php
public function updateModele(int $id, string $libelle, string $pays): int
{
    $em = $this->getEntityManager();
    $query = $em->createQuery(dql: '
        UPDATE App\Entity\Modele m
        SET m.libelle = :libelle,
            m.pays = :pays
        WHERE m.id = :id
    ')
        ->setParameter('libelle', $libelle)
        ->setParameter('pays', $pays)
        ->setParameter('id', $id);

    return $query->execute();
}
```

- route vers l'update

```php
#[Route('/update/{id}', name: 'modele_update')]
public function update(ModeleRepository $repo, int $id): Response
{
    // Mise à jour du libellé et du pays
    $rows = $repo->updateModele($id, libelle: 'Megane', pays: 'France');

    return new Response(content: "🖊 Modèle mis à jour : {$rows} ligne(s).");
}
```

- test

MAJ d'une voiture

Serie range rover
Date mise en marche
May ⌄ | 1 ⌄ | 2020 ⌄
00 ⌄ : 04 ⌄
Modele Clio ⌄
Prix jour 1505
MAJ Voiture

MAJ d'une voiture

Serie range rover
Date mise en marche
Aug ⌄ | 1 ⌄ | 2022 ⌄
00 ⌄ : 04 ⌄
Modele Clio ⌄
Prix jour 2000
MAJ Voiture

Listes des voitures

Serie	Date Mise en Marche	Modele		
1234	10/11/2025		suppression	Mettre à jour
9123	03/11/2025		suppression	Mettre à jour
4986	08/01/2022		suppression	Mettre à jour
5213	08/01/2022		suppression	Mettre à jour
minicooper	01/01/2024		suppression	Mettre à jour
range rover	01/08/2022	Clio	suppression	Mettre à jour

- delete

```php
public function deleteModele(int $id): int
{
    $em = $this->getEntityManager();
    $query = $em->createQuery(dql: '
        DELETE FROM App\Entity\Modele m
        WHERE m.id = :id
    ')
        ->setParameter('id', $id);

    return $query->execute();
}
```

- route vers delete

```php
#[Route('/delete/{id}', name: 'modele_delete')]
public function delete(ModeleRepository $repo, int $id): Response
{
    $rows = $repo->deleteModele($id);

    return new Response(content: "🗑 Modèle supprimé : {$rows} ligne(s).");
}
```

- test

voiture à supprimer

4986	08/01/2022		suppression	Mettre à jour
5213	08/01/2022		suppression	Mettre à jour

localhost / 127.0.0.1 / location_voi ✕   😃 Listes des voitures

← → C ⌂ ⓘ localhost:8000/voitures

Listes des voitures

Serie	Date Mise en Marche	Modele		
1234	10/11/2025		suppression	Mettre à jour
9123	03/11/2025		suppression	Mettre à jour
minicooper	01/01/2024		suppression	Mettre à jour
range rover	01/08/2022	Clio	suppression	Mettre à jour

modification formulaire

```php
class VoitureForm extends AbstractType
{
    public function buildForm(FormBuilderInterface $builder, array $options)
    {
        $builder->add(child: 'serie', type: TextType::class)
            ->add(child: 'dateMiseEnMarche', type: DateType::class)
            ->add(
                child: 'modele',
                type: EntityType::class,
                options: [
                    'class' => Modele::class,
                    'choice_label' => 'libelle', // affichera le libellé du modèle dans la liste
                    'placeholder' => 'Sélectionner un modèle',
                ]
            )
            ->add(child: 'prixJour', type: NumberType::class);
    }

    public function getName()
    {
        return 'voiture';
    }
}
```

test

- chercher une voiture par modèle par la methode searchvoiture

```php
public function findByModele(int $modeleId): array
{
    $em = $this->getEntityManager();

    $query = $em->createQuery(dql: '
        SELECT v, m
        FROM App\Entity\Voiture v
        JOIN v.modele m
        WHERE m.id = :modeleId
        ORDER BY v.serie ASC
    ')
        ->setParameter('modeleId', $modeleId);

    return $query->getResult();
}
```

- création de la méthode voitureparmodele dans le voiturecontroller

```
#[Route('/voitures-par-modele', name: 'voitures_par_modele')]
    public function voituresParModele(Request $request, VoitureRepository $vr, EntityManager
    {
        $modeleId = $request->query->get('modele');
        $voitures = [];

        if ($modeleId) {
            $voitures = $vr->findByModele((int)$modeleId);
        }

        // Récupérer tous les modèles pour le select
        $modeles = $em->getRepository(Modele::class)->findAll();

        return $this->render('voiture/voituresParModele.html.twig', [
            'voitures' => $voitures,
            'modeles' => $modeles,
            'selectedModele' => $modeleId
        ]);
    }
```

- création page twig voitureParModele.html.twig

```
<h1>Voitures par modèle</h1>

<form method="get">
    <select name="modele">
        <option value="">-- Sélectionner un modèle --</option>
        {% for m in modeles %}
            <option value="{{ m.id }}" {% if m.id =selectedModele %}selected{% endif %}>
                {{ m.libelle }}
            </option>
        {% endfor %}
    </select>
    <button type="submit">Filtrer</button>
</form>

{% if voitures %}
    <h2>Résultats :</h2>
    <ul>
        {% for v in voitures %}
            <li>{{ v.serie }} | {{ v.dateMiseEnMarche|date('Y-m-d') }} | {{ v.modele.libelle
        {% endfor %}
    </ul>
```

- test

localhost / 127.0.0.1 / location_voi ✕   Voitures par modèle

← C ⌂ ⓘ localhost:8000/voitures-par-modele?modele=
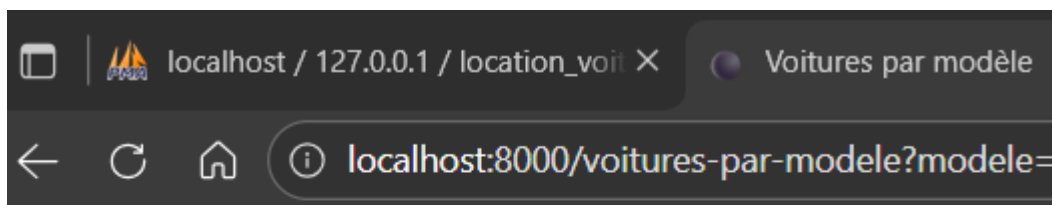
Voitures par modèle

Clio ⌄ Filtrer

Résultats :

- range rover | 2022-08-01 | Clio | 2000€

Atelier 6 - symfony

- **creation user class**

```
PS C:\xampp\htdocs\tp_symfony\lab6> php bin/console make:user

 The name of the security user class (e.g. User) [User]:
 > User

 Do you want to store user data in the database (via Doctrine)? (yes/no) [yes]:
 > yes

 Enter a property name that will be the unique "display" name for the user (e.g. email, username, uuid) [email]:
 > email

 Will this app need to hash/check user passwords? Choose No if passwords are not needed or will be checked/hashed by some other syst
 em (e.g. a single sign-on server).

 Does this app need to hash/check user passwords? (yes/no) [yes]:
 > yes

 created: src/Entity/User.php
 created: src/Repository/UserRepository.php
 updated: src/Entity/User.php
 updated: config/packages/security.yaml
```

- **création de authentification**

```
PS C:\xampp\htdocs\tp_symfony\lab6> php bin/console make:auth

 What style of authentication do you want? [Empty authenticator]:
  [0] Empty authenticator
  [1] Login form authenticator
 > 1

 The class name of the authenticator to create (e.g. AppCustomAuthenticator):
 > UserAuthenticator

 Choose a name for the controller class (e.g. SecurityController) [SecurityController]:
 > SecurityController

 Do you want to generate a '/logout' URL? (yes/no) [yes]:
 > yes

 Do you want to support remember me? (yes/no) [yes]:
 > yes

 How should remember me be activated? [Activate when the user checks a box]:
  [0] Activate when the user checks a box
  [1] Always activate remember me
 > 1

 created: src/Security/UserAuthenticator.php
 updated: config/packages/security.yaml
 created: src/Controller/SecurityController.php
 created: templates/security/login.html.twig

 Success!
```

- **modification de la méthode On Authentication Success**

```php
public function onAuthenticationSuccess(Request $request, TokenInterface $token, string $firewallName): ?Response
{
    if ($targetPath = $this->getTargetPath($request->getSession(), $firewallName)) {
        return new RedirectResponse($targetPath);
    }
    $user = $token->getUser();

    if (in_array('ROLE_CLIENT', $user->getRoles())) {
        return new RedirectResponse($this->urlGenerator->generate('app_voiture'));
    }

    if (in_array('ROLE_AGENT', $user->getRoles())) {
        return new RedirectResponse($this->urlGenerator->generate('app_client_index'));
    }

    return new RedirectResponse($this->urlGenerator->generate('app_location_new'));
}
```

resgistration

```
PS C:\xampp\htdocs\tp_symfony\lab6> php bin/console make:registration

Do you want to add a #[UniqueEntity] validation attribute to your User class to make sure duplicate accounts aren't created? (yes/no) [yes]:
> yes

Do you want to send an email to verify the user's email address after registration? (yes/no) [yes]:
> no

Do you want to automatically authenticate the user after registration? (yes/no) [yes]:
> yes

updated: src/Entity/User.php
created: src/Form/RegistrationFormType.php
created: src/Controller/RegistrationController.php
created: templates/registration/register.html.twig


Success!
```

modification de registration form

```php
public function buildForm(FormBuilderInterface $builder, array $options): void
{
    $builder
        ->add('email')
        ->add('roles', ChoiceType::class, [
            'label' => 'Rôle',
            'choices' => [
                'Client' => 'ROLE_CLIENT',
                'Agent' => 'ROLE_AGENT',
            ],
            'expanded' => false,
            'multiple' => false,
            'label' =>'choisissez un role'
        ])
        ->add('agreeTerms', CheckboxType::class, [
            'mapped' => false,
            'constraints' => [
                new IsTrue([
                    'message' => 'You should agree to our terms.',
                ]),
```

- **ajout transformer pour transfert chaine en un tableau**

```php
                ]),
            ],
        ]);
    $builder->get('roles')
        ->addModelTransformer(new CallbackTransformer(
            function ($rolesArray): ?string {

                return $rolesArray[0] ?? null;
            },
            function ($rolesString):array  {


                return [$rolesString];
            }
        ));
    }
```

- **attribution des permission aux user qui admet le rôle agent pour qu'il puisse voir ou accéder au chemin addVoiture cette configuration se fait dans config/security.yaml**

```
config > packages > ! security.yaml
   1    security:
  12       firewalls:
  16          main:
  32                 # https://symfony.com/doc/current/security.html#the-firewall
  33
  34                 # https://symfony.com/doc/current/security/impersonating_user.html
  35                 # switch_user: true
  36
  37          # Easy way to control access for large sections of your site
  38          # Note: Only the *first* access control that matches will be used
  39          access_control:
  40              - { path: ^/addVoiture, roles: ROLE_AGENT }
  41          # - { path: ^/profile, roles: ROLE_USER }
  42
```

- **mise à jour de l'entité user dans la base**

```
● PS C:\xampp\htdocs\tp_symfony\lab6> php bin/console make:migration

  In MetadataStorageError.php line 13:

    The metadata storage is not up to date, please run the sync-metadata-storage command to fix this issue.


  make:migration

● PS C:\xampp\htdocs\tp_symfony\lab6> php bin/console doctrine:migrations:migrate

   WARNING! You are about to execute a migration in database "location_voiture" that could result in schema changes and data loss. Are you su
  yes]:
   > yes


   [OK] Already at the latest version ("DoctrineMigrations\Version20251112182000")
```

- **test**

```
☐   | 🔷 localhost / 127.0.0.1 | phpMyAdm  ✕      ● Register                              ✕

←  →  C  ⌂     ⓘ  localhost:8000/register


Register

Email noor@gmail.com
Password ••••••
Agree terms ☑
 Register
choisissez un role Agent ✓
```

```
☐   | 🔷 localhost / 127.0.0.1 | phpMyAdm  ✕    😊 Ajout voiture                          ✕

←  C  ⌂     ⓘ  localhost:8000/addVoiture


Formulaire Ajout voiture

Serie[          ]
Date mise en marche
Jan ✓  1 ✓  2020 ✓
00 ✓ : 00 ✓
Modele[          ]
Prix jour[          ]
 addVoiture
```