

FP-Identification-Symfony

Lien vers Auth0 qui contient la base pour l'authentification dans symfony :

<https://auth0.com/blog/creating-your-first-symfony-app-and-adding-authentication/>

Dans un premier crée l'entité User :

symfony console make:user

suivre les instructions :

-User

-yes

-email

-yes

copier ce code dans l'entité User :

```
<?php
namespace App\Entity;
use Doctrine\ORM\Mapping as ORM;
use Symfony\Component\Security\Core\User\UserInterface;
/**
 * @ORM\Entity(repositoryClass="App\Repository\UserRepository")
 */
class User implements UserInterface
{
    /**
     * @ORM\Id()
     * @ORM\GeneratedValue()
     * @ORM\Column(type="integer")
     */
    private $id;

    /**
     * @ORM\Column(type="string", length=180, unique=true)
     */
}
```

```
private $email;

/**
 * @ORM\Column(type="json")
 */
private $roles = [];

/** 
 * @var string The hashed password
 * @ORM\Column(type="string")
 */
private $password;

/** 
 * @ORM\Column(type="string", length=255)
 */
private $name;

public function getId(): ?int
{
    return $this->id;
}

public function getEmail(): ?string
{
    return $this->email;
}

public function setEmail(string $email): self
{
    $this->email = $email;
    return $this;
}

/**
 * A visual identifier that represents this user.
 *
 * @see UserInterface
 */
public function getUsername(): string
{
    return (string) $this->email;
}

/**
 * @see UserInterface
 */
public function getRoles(): array
{
```

```
$roles = $this->roles;
// guarantee every user at least has ROLE_USER
$roles[] = 'ROLE_USER';
return array_unique($roles);
}

public function setRoles(array $roles): self
{
    $this->roles = $roles;
    return $this;
}

/**
 * @see UserInterface
 */
public function getPassword(): string
{
    return (string) $this->password;
}

public function setPassword(string $password): self
{
    $this->password = $password;
    return $this;
}

/**
 * @see UserInterface
 */
public function getSalt()
{
    // not needed when using the "bcrypt" algorithm in security.yaml
}

/**
 * @see UserInterface
 */
public function eraseCredentials()
{
    // If you store any temporary, sensitive data on the user, clear it here
    // $this->plainPassword = null;
}

public function getName(): ?string
{
    return $this->name;
}

public function setName(string $name): self
```

```

{
    $this->name = $name;
    return $this;
}
}

```

créé un RegistrationController pour pouvoir enregistrer un nouvel utilisateur :

symfony console make:controller

insérer ce code dans le RegistrationController :

```

<?php

namespace App\Controller;

use App\Entity\User;
use App\Form\UserType;
use Symfony\Bundle\FrameworkBundle\Controller\AbstractController;
use Symfony\Component\HttpFoundation\Request;
use Symfony\Component\Routing\Annotation\Route;
use Symfony\Component\Security\Core\Encoder\UserPasswordEncoderInterface;
class RegistrationController extends AbstractController
{
    private $passwordEncoder;
    public function __construct(UserPasswordEncoderInterface $passwordEncoder)
    {
        $this->passwordEncoder = $passwordEncoder;
    }
    /**
     * @Route("/registration", name="registration")
     */
    public function index(Request $request)
    {
        $user = new User();
        $form = $this->createForm(UserType::class, $user);
        $form->handleRequest($request);
        if ($form->isSubmitted() && $form->isValid()) {
            // Encode the new users password
            $user->setPassword($this->passwordEncoder->encodePassword($user, $user->getPassword()));
            // Set their role
        }
    }
}

```

```

        $user->setRoles(['ROLE_USER']);

        // Save

        $em = $this->getDoctrine()->getManager();

        $em->persist($user);

        $em->flush();

        return $this->redirectToRoute('app_login');

    }

    return $this->render('registration/index.html.twig', [
        'form' => $form->createView(),
    ]);
}

}

```

faire un formulaire pour récupérer les données des utilisateurs :

symfony console make:form

rentrez ce code :

```

class UserType extends AbstractType
{
    public function buildForm(FormBuilderInterface $builder, array $options)
    {
        $builder
            ->add('email', EmailType::class)
            ->add('name', TextType::class)
            ->add('password', RepeatedType::class, [
                'type' => PasswordType::class,
                'first_options' => ['label' => 'Password'],
                'second_options' => ['label' => 'Confirm Password']
            ])
        ;
    }

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

```

Créez un controller SecurityController qui servira plus tard :

symfony console make:controller SecurityController

Généré l'authentification :

symfony console make:auth

suivre les indication :

- 1
- LoginFormAuthenticator
- SecurityController
- yes

Ouvrir le SecurityController dans `src/Controller/SecurityController.php` et le remplir avec :

```
<?php

namespace App\Controller;

use Symfony\Bundle\FrameworkBundle\Controller\AbstractController;
use Symfony\Component\HttpFoundation\Response;
use Symfony\Component\Routing\Annotation\Route;
use Symfony\Component\Security\Http\Authentication\AuthenticationUtils;

class SecurityController extends AbstractController
{
    /**
     * @Route("/", name="app_login")
     */
    public function login(AuthenticationUtils $authenticationUtils): Response
    {
        // get the login error if there is one
        $error = $authenticationUtils->getLastAuthenticationError();
        // last username entered by the user
        $lastUsername = $authenticationUtils->getLastUsername();

        return $this->render('security/login.html.twig', ['last_username' => $lastUsername, 'error' => $error]);
    }

    /**
     * @Route("/logout", name="app_logout")
     */
    public function logout()
    {
        throw new \Exception("This method can be blank - it will be intercepted by the logout key on your firewall");
    }
}
```

Créez une base de données, utilisez cette commande pour créer les tables :

```
php bin/console doctrine:schema:update --force
```

Ouvrez le fichier Security.yalm dans /config/packages/security.yalm et le remplir avec :

```
security:
    enable_authenticator_manager: true
    # https://symfony.com/doc/current/security.html#registering-the-user-hashing-passwords
    password_hashers:
        Symfony\Component\Security\Core\User\PasswordAuthenticatedUserInterface: 'auto'
        # https://symfony.com/doc/current/security.html#loading-the-user-the-user-provider
    encoders:
        App\Entity\User:
            algorithm: auto
    providers:
        # used to reload user from session & other features (e.g. switch_user)
        app_user_provider:
            entity:
                class: App\Entity\User
                property: email #propriété utiliser pour différencier les utilisateurs(peut être username ou uuid)
    firewalls:
        dev:
            pattern: ^/(_(profiler|wdt)|css|images|js)/
            security: false
        main:
            lazy: true
            provider: app_user_provider
            custom_authenticator: App\Security\LoginFormAuthenticator
            logout: #ligne qui gère la déconnexion
                path: app_logout
                target: /
                # where to redirect after logout
                # target: app_any_route

            # activate different ways to authenticate
            # https://symfony.com/doc/current/security/the-firewall

            # https://symfony.com/doc/current/security/impersonating\_user.html
            # switch_user: true

            # Easy way to control access for large sections of your site
            # Note: Only the *first* access control that matches will be used
            access_control: #permet de définir quel rôle aura accès à quel page grâce au chemin de la page et au nom du rôle
                # - { path: ^/admin, roles: ROLE_ADMIN }
                # - { path: ^/profile, roles: ROLE_USER }

when@test:
    security:
        password_hashers:
            # By default, password hashers are resource intensive and take time. This is
            # important to generate secure password hashes. In tests however, secure hashes
            # are not important, waste resources and increase test times. The following
            # reduces the work factor to the lowest possible values.
            Symfony\Component\Security\Core\User\PasswordAuthenticatedUserInterface:
                algorithm: auto
```

```

cost: 4 # Lowest possible value for bcrypt
time_cost: 3 # Lowest possible value for argon
memory_cost: 10 # Lowest possible value for argon

```

Si un username ou un uuid à été choisi pour a=définir les utilisateur au moment de faire un make:user modifier la ligne property: email en property: username ou property: username

et modifier plus tard le /templates/registration/index.html.twig en conséquence.

Dans le LoginFormAuthenticator.php configuez la fonction onAuthenticationSuccess comme ceci:

```

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

    // For example:
    // return new RedirectResponse($this->urlGenerator->generate('some_route'));
    // throw new \Exception('TODO: provide a valid redirect inside '.__FILE__);
    return new RedirectResponse($this->urlGenerator->generate('list'));
}

```

Cette fonction nous permet de rediriger l'utilisateur vers une page lorsqu'il se connecte avec succès.

Configurer les vues twig :

Si on veux qu'un utilisateur ai accès à un contenu une fois connecter utiliser :

```

{% if app.user %}
    ...
{% endif %}

```

Par exemple :

```

{% if app.user %}
    <li><a class="nav-link" href="{{ path('list') }}>View List</a></li>
    <li><a class="nav-link" href="{{ path('app_logout') }}>Logout</a></li>
{% endif %}

```

Ce qui permet à un utilisateur qui s'est connecter de voir les bouton permettant d'accéder à une liste et de se déconnecter

ou :

```

{% endif %} {% if app.user %}
<div class="mb-3">
    You are logged in as {{ app.user.name }},
    <a href="{{ path('app_logout') }}>Logout</a>
</div>
{% endif %}

```

permet de récupérer le nom de l'utilisateur connecter et de lui afficher un message et un lien pour se déconnecter.

On peu aussi utiliser {{ app.user.userIdentifier }} :

```

{% if app.user %}
    <div class="mb-3">

```

```
You are logged in as {{ app.user.userIdentifier }}  
<a href="{{ path('app_logout') }}>Logout</a>  
</div>
```

```
{% endif %}
```

Par contre qui on veux qu'un utilisateur ai accès à un contenu sans être connecter utiliser :

```
{% if not app.user %}
```

```
{% endif %}
```

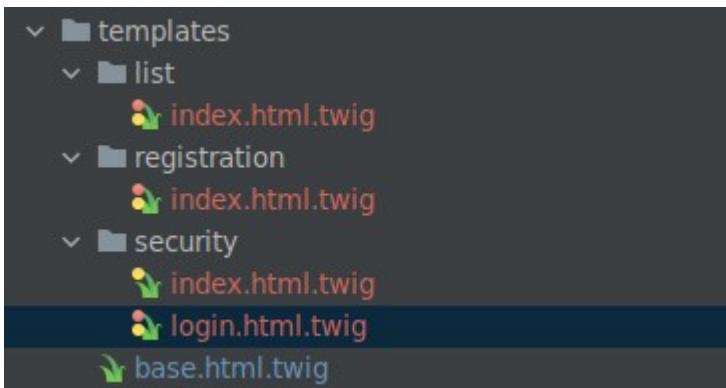
Par exemple :

```
{% if not app.user %}  
    <li><a class="nav-link" href="{{ path('app_login') }}>Login</a></li>  
    <li>  
        <a class="nav-link" href="{{ path('registration') }}>Register</a>  
    </li>  
{% endif %}
```

Bloc pour récupérer un erreur :

```
{% if (error) %}  
  <div class="alert alert-danger">  
    {{ error.messageKey|trans(error.messageData, 'security') }}  
  </div>  
{% endif %}
```

Exemple d’arborescence de templates avec le code :



/list/index :

```

</tr>
{% for key, item in companies %}
<tr>
    <td>{{ key }}</td>
    <td>{{ item }}</td>
</tr>
{% endfor %}
</table>
{% endif %}
</div>
</div>
{% if not app.user %}
    <a href="{{ path('app_login') }}" class="btn btn-info">
        You need to login to see the list 😊 😊 >></a>
    >
    {% endif %}
</div>
</div>
</div>
{% endblock %}

```

/registration/index :

```

{% extends 'base.html.twig' %}{%
block body %}

<div class="container">
    <div class="row">
        <div class="col-md-10 ml-md-auto">
            <div class="card bg-light mb-3 mt-5" style="width: 800px">
                <div class="card-body">
                    <div class="card-header mb-3">Registration Form</div>
                    {{ form_start(form) }}
                    <div class="form_group">
                        <div class="col-md-12 mb-3">
                            {{ form_row(form.name, {'attr': {'class': 'form-control'}}) }}
                        </div>
                    </div>
                    <div class="form_group">
                        <div class="col-md-12 mb-3">
                            {{ form_row(form.email, {'attr': {'class': 'form-control'}}) }}
                        </div>
                    </div>
                    <div class="form_group">
                        <div class="col-md-12 mb-3">
                            {{ form_row(form.password.first, {'attr': {'class': 'form-control'}}) }}
                        </div>
                    </div>
                    <div class="form_group">
                        <div class="col-md-12 mb-3">
                            {{ form_row(form.password.second, {'attr': {'class': 'form-control'}}) }}
                        </div>
                    </div>
                </div>
            </div>
        </div>
    </div>
</div>

```

```

</div>
<div class="form-group">
  <div class="col-md-8 col-md-offset-4" style="margin-top:5px;">
    <button type="submit" class="btn btn-primary">
      <i class="fa fa-btn fa-user"></i> Register
    </button>
  </div>
</div>
{{ form_end(form) }}
</div>
</div>
</div>
</div>
<% endblock %>

```

security/index :

```

{% extends 'base.html.twig' %}
{% block title %}Log in{% endblock %}
{% block body %}

<div class="container">
  <div class="row">
    <div class="col-md-10 ml-md-auto">
      <div class="">
        <div class="card bg-light mb-3 mt-5" style="width: 800px;">
          <div class="card-body">
            <form class="form-horizontal" role="form" method="post">
              {% if not app.user %}
                <div class="alert alert-danger">
                  {{ error.messageKey|trans(error.messageData, 'security') }}
                </div>
              {% endif %} {% if app.user %}
                <div class="mb-3">
                  You are logged in as {{ app.user.name }}.
                  <a href="{{ path('app_logout') }}">Logout</a>
                </div>
              {% endif %}
              <div class="card-header mb-3">Please sign in</div>
              <div class="form-group">
                <label for="email" class="col-md-4 control-label">
                  E-Mail Address</label>
                <div class="col-md-12">
                  <label for="inputEmail"></label><input
                    id="inputEmail"
                    type="email"
                    class="form-control"
                    name="email"
                    value="{{ last_username }}"
                    required
                    autofocus
                  />
                </div>
              </div>
              <div class="form-group">
                <label for="password" class="col-md-4 control-label">
                  Password</label>
                <div class="col-md-12">

```

/security/login :

```
{# templates/security/login.html.twig #} {% extends 'base.html.twig' %} {% block title %}Log in{% endblock %} {% block body %}
<div class="container">
<div class="row">
<div class="col-md-10 ml-md-auto">
<div class="">
<div class="card bg-light mb-3 mt-5" style="width: 800px;">
<div class="card-body">
<form class="form-horizontal" role="form" method="post">
{%- if (error) %}
<div class="alert alert-danger">
{{ error.messageKey|trans(error.messageData, 'security') }}
</div>

{%- endif %} {%- if app.user %}<div class="mb-3">
    You are logged in as {{ app.user.userIdentifier }},<a href="{{ path('app_logout') }}>Logout</a>
</div>

{%- endif %}<div class="card-header mb-3">Please sign in</div>
<div class="form-group">
<label for="email" class="col-md-4 control-label">
    E-Mail Address</label>
```

```

>
<div class="col-md-12">
    <label for="inputEmail"></label><input
        id="inputEmail"
        type="email"
        class="form-control"
        name="email"
        value="{{ last_username }}"
        required
        autofocus
    />
</div>
</div>
<div class="form-group">
    <label for="password" class="col-md-4 control-label">
        Password
    </label>
    <div class="col-md-12">
        <label for="inputPassword"></label><input
            id="inputPassword"
            type="password"
            class="form-control"
            name="password"
            required
        />
    </div>
</div>
<input
    type="hidden"
    name="_csrf_token"
    value="{{ csrf_token('authenticate') }}"
/>
<div class="form-group">
    <div class="col-md-12">
        <button type="submit" class="btn btn-primary">
            <i class="fa fa-btn fa-sign-in"></i> Login
        </button>
    </div>
</div>
</form>
</div>
</div>
</div>
</div>
<% endblock %>

```

base.html.twig

```

{# templates/base.html.twig #}
<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8" />
    <title>{% block title %}Welcome!{% endblock %}</title>
    <link
        rel="stylesheet"
        href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css"

```

```
>
{%
  block stylesheets %} {%
  endblock %}
</head>
<body>
<nav
  class="navbar navbar-expand-lg navbar-light bg-light"
  style="height: 70px;">
  <a class="navbar-brand" href="#">Symfony</a>
  <div class="collapse navbar-collapse" id="navbarSupportedContent"></div>
  <ul class="nav navbar-nav navbar-right">
    {% if app.user %}
      <li><a class="nav-link" href="{{ path('list') }}">View List</a></li>
      <li><a class="nav-link" href="{{ path('app_logout') }}">Logout</a></li>
    {% endif %}

    {% if not app.user %}
      <li><a class="nav-link" href="{{ path('app_login') }}">Login</a></li>
      <li>
        <a class="nav-link" href="{{ path('registration') }}">Register</a>
      </li>
    {% endif %}
  </ul>
</nav>
{%
  block body %} {%
  endblock %} {%
  block javascripts %} {%
  endblock %}</body>
</html>
```