

Authentication : User guide

The document explains how the authentication works on this application.

User Entity

The user is represented by the user entity in */src/Entity/User.php*.

It has to implement the interface ***UserInterface*** to be able to manage user login, security etc...

The *UserInterface* needs 5 methods:

- ***getRoles()***: return the user's role
- ***getPassword()***: return the hash password
- ***getSalt()***: return the salt used for the password hash
- ***getUsername()***: return the unique username
- ***eraseCredentials()***: erase sensitive data

Security Setup

The security system is configured in */config/packages/security.yaml*.

1. Encoders

This part describes the hash used to hash the user's password.

```
encoders:
    App\Entity\User: bcrypt
```

2. Providers

The provider explains where the User's information is and how to access it.

```
providers:
    doctrine:
        entity:
            class: App\User
            property: username
```

3. Firewalls

The firewalls config allows you to set up the way to login and logout. It's our authentication system.

```

firewalls:
  dev:
    pattern: ^/(_(profiler|wdt)|css|images|js)/
    security: false

main:
  anonymous: ~
  pattern: ^/
  form_login:
    login_path: login
    check_path: login_check
    always use default target path: true
    default target path: /
  logout: ~

```

4. Access Control

On the `access_control` part we can define the authorisation access for each page of the website and the users' roles allowed.

```

access_control:
  - { path: ^/tasks, roles: ROLE_USER}
  - { path: ^/users/list, roles: ROLE_ADMIN}
  - { path: ^/login, roles: IS_AUTHENTICATED_ANONYMOUSLY }

```

We can see that we need at least a `ROLE_USER` for access to the tasks part of the website. The `users/list` is only accessible by Admin and everybody is allowed on the login page.