

Systemy Rozproszone 2024

Sprawozdanie 3, v1.0

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1. Tworzymy project w Symfony 6.4.* dla systemu dziedzicznego

```
inf2s_l63105@inf2s163105:/var/www/zad3_jwt$ composer create-project symfony/skeleton:6.4.* /var/www/zad3_jwt
```

2. Przykładowy config zad3 apache

```
<VirtualHost *:80>
    ServerName zad3.local
    ServerAlias www.zad3.local

    SetEnvIfNoCase ^Authorization$ "(.+)" HTTP_AUTHORIZATION=$1

    <FilesMatch \.php$>
        SetHandler proxy:unix:/run/php/php8.2-fpm.sock|fcgi://dummy
    </FilesMatch>

    DocumentRoot /var/www/zad3_jwt/public
    <Directory /var/www/zad3_jwt/public>
        AllowOverride None
        Require all granted
        FallbackResource /index.php
    </Directory>

    ErrorLog /var/log/apache2/zad3_jwt_error.log
    CustomLog /var/log/apache2/zad3_jwt_access.log combined
</VirtualHost>
```

etc/apache2/sites-available/zad3_jwt.conf

```
127.0.0.1 localhost
127.0.1.1 inf2s_l63105
#127.0.0.1 karkulowskiii.com
127.0.0.1 zad3.local
# The following lines are desirable for IPv6 capable hosts
::1 ip6-localhost ip6-loopback
fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
```

etc/hosts

```
# localhost name resolution is handled within DNS itself.  
# 127.0.0.1 localhost  
# ::1 localhost  
#192.168.1.146 karkulowskiii.com  
192.168.1.146 zad3.local
```

C:\Windows\System32\drivers\etc\hosts

3. Instalujemy potrzebne biblioteki

```
composer require jms/serializer-bundle
```

```
composer require --dev symfony/maker-bundle
```

```
composer require symfony/maker-bundle
```

```
composer require symfony/orm-pack
```

```
composer require symfony/validator
```

```
composer require security
```

Szybkie sprawdzenie czy wszystko jest zainstalowane

```
<?php  
  
return [  
    JMS\SerializerBundle\JMSSerializerBundle::class => ['all' => true],  
    FOS\RestBundle\FOSRestBundle::class => ['all' => true],  
    Symfony\Bundle\FrameworkBundle\FrameworkBundle::class => ['all' => true],  
    Doctrine\Bundle\DoctrineBundle\DoctrineBundle::class => ['all' => true],  
    Doctrine\Bundle\MigrationsBundle\DoctrineMigrationsBundle::class => ['all' => true],  
    Symfony\Bundle\MakerBundle\MakerBundle::class => ['dev' => true],  
];
```

Jeśli czegoś brakuje, trzeba dodać wpis i zainstalować ponownie

4. Konfigurujemy FOSRest Bundle

```

fos_rest:
  routing_loader: false
  view:
    view_response_listener: 'force'
  formats:
    json: true
    xml: true
  zone:
    - { path: '^/api/' }
  format_listener:
    rules:
      - { path: '^/api/', priorities: ['json', 'html'], fallback_format: 'json', prefer_extension: t
  body_listener:
    enabled: true
  param_fetcher_listener:
    enabled: true
  serializer:
    serialize_null: true
  exception:
    enabled: true
    map_exception_codes: true
  messages:
    'Symfony\Component\HttpKernel\Exception\HttpException': true
    'Symfony\Component\Security\Core\Exception\BadCredentialsException': true
  codes:
    'Symfony\Component\HttpKernel\Exception\NotFoundHttpException': 404
    'Symfony\Component\Security\Core\Exception\BadCredentialsException': 401
    'Symfony\Component\Security\Core\Exception\AccessDeniedException': 403
    'LogicException': 500
    'InvalidArgumentException': 400
    'Exception': 400

```

5. Edytujemy plik .env

```

# In all environments, the following files are loaded if they exist,
# the latter taking precedence over the former:
#
# * .env                contains default values for the environment variables needed by the app
# * .env.local          uncommitted file with local overrides
# * .env.$APP_ENV       committed environment-specific defaults
# * .env.$APP_ENV.local uncommitted environment-specific overrides
#
# Real environment variables win over .env files.
#
# DO NOT DEFINE PRODUCTION SECRETS IN THIS FILE NOR IN ANY OTHER COMMITTED FILES.
# https://symfony.com/doc/current/configuration/secrets.html
#
# Run "composer dump-env prod" to compile .env files for production use (requires symfony/flex >=1.2
# https://symfony.com/doc/current/best_practices.html#use-environment-variables-for-infrastructure-c
###> symfony/framework-bundle ###
APP_ENV=dev
APP_SECRET=4a30a563589f03b0def2e8154c138d6f
###< symfony/framework-bundle ###

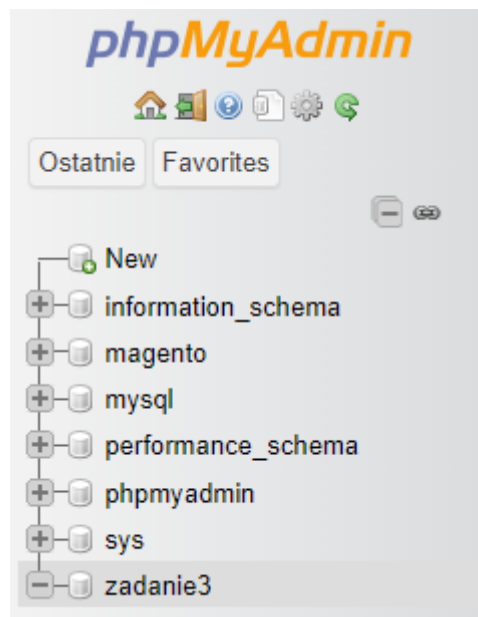
###> doctrine/doctrine-bundle ###
# Format described at https://www.doctrine-project.org/projects/doctrine-dbal/en/latest/reference/co
# IMPORTANT: You MUST configure your server version, either here or in config/packages/doctrine.yaml
#
# DATABASE_URL="sqlite://%kernel.project_dir%/var/data.db"
# DATABASE_URL="mysql://app:!ChangeMe!@127.0.0.1:3306/app?serverVersion=8.0.32&charset=utf8mb4"
# DATABASE_URL="mysql://app:!ChangeMe!@127.0.0.1:3306/app?serverVersion=10.11.2-MariaDB&charset=utf8
DATABASE_URL="mysql://inf2s_163105:Wiocha22!!@192.168.1.146:3306/zadanie3?serverVersion=mariadb-10.6.
###< doctrine/doctrine-bundle ###

```

Tutaj wystarczy zmienić login, hasło, nazwę bazy danych, adres i na MariaDB z aktualną wersją

6. Tworzymy bazę danych z pliku .env

```
inf2s_163105@inf2s163105:/var/www/zad3_jwt$ php bin/console doctrine:database:create
Created database `zadanie3` for connection named default
```



7. Tworzymy encję Projekt (nazwa,opis,cena)

```
inf2s_163105@inf2s163105:/var/www/zad3_jwt$ php bin/console make:entity

Class name of the entity to create or update (e.g. TinyChef):
> Project

created: src/Entity/Project.php
created: src/Repository/ProjectRepository.php

Entity generated! Now let's add some fields!
You can always add more fields later manually or by re-running this command.

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

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

Field length [255]:
> 255

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

updated: src/Entity/Project.php

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

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

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

updated: src/Entity/Project.php

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

Success!
```

Next: When you're ready, create a migration with `php bin/console make:migration`

```

inf2s_163105@inf2s163105:/var/www/zad3_jwt$ 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, user id) [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 system (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

Success!

Next Steps:
- Review your new App\Entity\User class.
- Use make:entity to add more fields to your User entity and then run make:migration.
- Create a way to authenticate! See https://symfony.com/doc/current/security.html

```

Dodajemy pole username w src/Entity/User.php

```

public function getUsername(): string
{
    return $this->username;
}

..

public function setUsername(string $username): self
{
    $this->username = $username;
}

..

return $this;
}

```

8. Tworzymy migrację i wykonujemy

```

inf2s_163105@inf2s163105:/var/www/zad3_jwt$ php bin/console make:migration
created: migrations/Version20240519083936.php

Success!

Review the new migration then run it with php bin/console doctrine:migrations:migrate
See https://symfony.com/doc/current/bundles/DoctrineMigrationsBundle/index.html
inf2s_163105@inf2s163105:/var/www/zad3_jwt$ php bin/console doctrine:migrations:migrate

WARNING! You are about to execute a migration in database "zadanie3" that could result in schema changes and data loss. Are you sure you wish to continue? (yes/no) [yes]:
> yes

[notice] Migrating up to DoctrineMigrations\Version20240519083936
[notice] finished in 16.3ms, used 14M memory, 2 migrations executed, 4 sql queries

[OK] Successfully migrated to version: DoctrineMigrations\Version20240519083936

```

9. Tworzymy kontroler dla Projekt

```
inf2s_163105@inf2s163105:/var/www/zad3_jwt$ php bin/console make:controller ProjectController
created: src/Controller/ProjectController.php

Success!

Next: Open your new controller class and add some pages!
```

10. Uruchamiamy aplikację

```
inf2s_163105@inf2s163105:/var/www/zad3_jwt$ symfony server:start

[WARNING] run "symfony server:ca:install" first if you want to run the web server with TLS support, or use "--pl2" or "--no-tls" to avoid this warning

Following Web Server log file (/home/inf2s_163105/.symfony5/log/42f231d2098ee587a4c543afcb512cb0fle95a4a.log)
Following PHP-FPM log file (/home/inf2s_163105/.symfony5/log/42f231d2098ee587a4c543afcb512cb0fle95a4a/53fb8ec204547646acb3461995e4da5a54cc7575.log)

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

[OK] Web server listening
The Web server is using PHP FPM 8.2.19
http://127.0.0.1:8000

[Web Server ] May 19 08:22:34 |DEBUG | PHP Reloading PHP versions
[Web Server ] May 19 08:22:34 |DEBUG | PHP Using PHP version 8.2.19 (from default version in $PATH)
[Web Server ] May 19 08:22:34 |INFO | PHP listening path="/usr/sbin/php-fpm8.2" php="8.2.19" port=45041
[PHP-FPM ] May 19 08:22:34 |NOTICE | FPM fpm is running, pid 28072
[PHP-FPM ] May 19 08:22:34 |NOTICE | FPM ready to handle connections
[PHP-FPM ] May 19 08:22:34 |NOTICE | FPM systemd monitor interval set to 10000ms
[PHP-FPM ] 2024-05-19T08:22:36Z,"message":"Received timer message (first boot)"
```

11. Testowanie API POST/GET/PUT/DELETE (CRUD)

```
inf2s_163105@inf2s163105:/var/www/zad3_jwt$ php bin/console debug:router
```

Name	Method	Scheme	Host	Path
_preview_error	ANY	ANY	ANY	/_error/{code}.{_format}
api_project_index	GET	ANY	ANY	/api/projects
api_project_create	POST	ANY	ANY	/api/projects
api_project_show	GET	ANY	ANY	/api/projects/{id}
api_project_update	PUT PATCH	ANY	ANY	/api/projects/{id}
api_project_delete	DELETE	ANY	ANY	/api/projects/{id}

POST

```
inf2s_163105@inf2s163105:/var/www/zad3_jwt$ curl -X POST http://zad3.local/api/projects -H "Content-Type: application/json" -d '{
  "name": "Nazwa testowa do zadania 3",
  "description": "Opis testowy do zadania 3"
}' | jq
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total     Spent    Left     Speed
100    190    0    86  100    104  12776  15450 --:--:-- --:--:-- --:--:-- 31666
{
  "id": 6,
  "name": "Nazwa testowa do zadania 3",
  "description": "Opis testowy do zadania 3"
}
inf2s_163105@inf2s163105:/var/www/zad3_jwt$ curl -X POST http://zad3.local/api/projects -H "Content-Type: application/json" -d '{
  "name": "Nazwa wkrrehtdorngh",
  "description": "awdawdawd"
}' | jq
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total     Spent    Left     Speed
100    144    0    63  100    81  8363  10752 --:--:-- --:--:-- --:--:-- 20571
{
  "id": 7,
  "name": "Nazwa wkrrehtdorngh",
  "description": "awdawdawd"
}
```

GET

```
inf2s_163105@inf2s163105:/var/www/zad3_jwt$ curl -X GET http://zad3.local/api/projects | jq
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total     Spent    Left     Speed
100    152    0   152    0    0  28300    0 --:--:-- --:--:-- --:--:-- 30400
[
  {
    "id": 6,
    "name": "Nazwa testowa do zadania 3",
    "description": "Opis testowy do zadania 3"
  },
  {
    "id": 7,
    "name": "Nazwa wkrrehtdorngh",
    "description": "awdawdawd"
  }
]
```

```
inf2s_163105@inf2s163105:/var/www/zad3_jwt$ curl -X GET http://zad3.local/api/projects/6 | jq
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total     Spent    Left     Speed
100    86    0    86    0    0  14276    0 --:--:-- --:--:-- --:--:-- 17200
{
  "id": 6,
  "name": "Nazwa testowa do zadania 3",
  "description": "Opis testowy do zadania 3"
}
```

PUT


```
inf2s_163105@inf2s163105:/var/www/zad3_jwt$ curl -X PUT http://zad3.local/api/projects/6 \
-H "Content-Type: application/json" \
-d '{
  "name": "Updated Project Name",
  "description": "Updated Project Description"
}' | jq
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total   Spent    Left   Speed
100    182    0    82   100    100    10703   13053   --:--:--  --:--:--  --:--:-- 26000
{
  "id": 6,
  "name": "Updated Project Name",
  "description": "Updated Project Description"
}
```

DELETE

```
inf2s_163105@inf2s163105:/var/www/zad3_jwt$ curl -X DELETE http://zad3.local/api/projects/6 | jq
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total   Spent    Left   Speed
100     35    0    35    0     0    3221     0   --:--:--  --:--:--  --:--:-- 3500
"Pomyślnie usunięto id 6"
```

12. Wdrożenie JWT do systemu dziedzinyowego (instalacja pakietów)

```
inf2s_163105@inf2s163105:/var/www/zad3_jwt$ composer require lexik/jwt-authentication-bundle
./composer.json has been updated
Running composer update lexik/jwt-authentication-bundle
Loading composer repositories with package information
Restricting packages listed in "symfony/symfony" to "6.4.*"
Updating dependencies
Lock file operations: 3 installs, 0 updates, 0 removals
  - Locking lcobucci/clock (3.2.0)
  - Locking lcobucci/jwt (5.3.0)
  - Locking lexik/jwt-authentication-bundle (v3.0.0)
Writing lock file
Installing dependencies from lock file (including require-dev)
Package operations: 3 installs, 0 updates, 0 removals
  - Installing lcobucci/jwt (5.3.0): Extracting archive
  - Installing lcobucci/clock (3.2.0): Extracting archive
  - Installing lexik/jwt-authentication-bundle (v3.0.0): Extracting archive
Generating autoload files
57 packages you are using are looking for funding.
Use the `composer fund` command to find out more!

Symfony operations: 1 recipe (1f67104361c79297c5dda2cd05911eb7)
  - Configuring lexik/jwt-authentication-bundle (>=2.5): From github.com/symfony/recipes:main
Executing script cache:clear [OK]
Executing script assets:install public [OK]

What's next?

Some files have been created and/or updated to configure your new packages.
Please review, edit and commit them: these files are yours.

No security vulnerability advisories found.
Using version ^3.0 for lexik/jwt-authentication-bundle
```

13. Tworzymy migrację jeśli coś zostało pominięte

```
inf2s_l63l05@inf2s163l05:/var/www/zad3_jwt$ php bin/console make:migration

[WARNING] No database changes were detected.

The database schema and the application mapping information are already in sync.

inf2s_l63l05@inf2s163l05:/var/www/zad3_jwt$ php bin/console doctrine:migrations:migrate

WARNING! You are about to execute a migration in database "zadanie3" that could result in schema changes and data loss. Are you sure you wish to continue? (yes/no) [yes]:
> yes

[OK] Already at the latest version ("DoctrineMigrations\Version20240519083936")
```

14. Tworzymy folder jwt i generujemy klucze

```
inf2s_l63l05@inf2s163l05:/var/www/zad3_jwt$ php bin/console lexik:jwt:generate-keypair

[OK] Done!
```

LUB

```
inf2s_l63l05@inf2s163l05:/var/www/zad3_jwt$ mkdir config/jwt
inf2s_l63l05@inf2s163l05:/var/www/zad3_jwt$ ls -l
total 260
drwxrwxr-x  2 inf2s_l63l05 inf2s_l63l05  4096 May 19 07:14 bin
-rw-rw-r--  1 inf2s_l63l05 inf2s_l63l05    130 May 19 07:26 compose.override.yaml
-rw-rw-r--  1 inf2s_l63l05 inf2s_l63l05  2027 May 19 10:06 composer.json
-rw-rw-r--  1 inf2s_l63l05 inf2s_l63l05 213232 May 19 10:06 composer.lock
-rw-rw-r--  1 inf2s_l63l05 inf2s_l63l05   897 May 19 07:26 compose.yaml
drwxrwxr-x  5 inf2s_l63l05 inf2s_l63l05  4096 May 19 10:09 config
drwxrwxr-x  2 inf2s_l63l05 inf2s_l63l05  4096 May 19 08:39 migrations
drwxrwxr-x  2 inf2s_l63l05 inf2s_l63l05  4096 May 19 07:14 public
drwxrwxr-x  5 inf2s_l63l05 inf2s_l63l05  4096 May 19 07:22 src
-rw-rw-r--  1 inf2s_l63l05 inf2s_l63l05  4329 May 19 10:06 symfony.lock
drwxrwxrwx  4 inf2s_l63l05 inf2s_l63l05  4096 May 19 07:14 var
drwxrwxr-x 14 inf2s_l63l05 inf2s_l63l05  4096 May 19 10:06 vendor
inf2s_l63l05@inf2s163l05:/var/www/zad3_jwt$ ls -l config/jwt
total 0
```

```
inf2s_l63l05@inf2s163l05:/var/www/zad3_jwt$ openssl genrsa -out config/jwt/private.pem -aes256 4096
Enter PEM pass phrase:
Verifying - Enter PEM pass phrase:
inf2s_l63l05@inf2s163l05:/var/www/zad3_jwt$ openssl rsa -pubout -in config/jwt/private.pem -out config/jwt/public.pem
Enter pass phrase for config/jwt/private.pem:
writing RSA key
inf2s_l63l05@inf2s163l05:/var/www/zad3_jwt$ ls -l config/jwt
total 8
-rw----- 1 inf2s_l63l05 inf2s_l63l05 3434 May 19 10:10 private.pem
-rw-rw-r-- 1 inf2s_l63l05 inf2s_l63l05  800 May 19 10:10 public.pem
```

```
chmod 644 config/jwt/private.pem
chmod 644 config/jwt/public.pem
```

15. Edycja pliku routes.yaml

```
controllers:
  resource:
    path: ../src/Controller/
    namespace: App\Controller
    type: attribute
api_login_check:
  path: /api/login_check
```

16. Edycja pliku security.yaml

```
/var/www/zad3_jwt/~ages/security.yaml [-M--] 0 L:[ 3+31 34/ 34] *(1134/1134b) <EOF>
App\Entity\User: 'auto'
Symfony\Component\Security\Core\User\PasswordAuthenticatedUserInterface:
  algorithm: 'auto'
  cost: 15
providers:
  app_user_provider:
    entity:
      class: App\Entity\User
      property: username
firewalls:
  login:
    pattern: ^/api/login
    stateless: true
    json_login:
      check_path: /api/login_check
      success_handler: lexik_jwt_authentication.handler.authentication_success
      failure_handler: lexik_jwt_authentication.handler.authentication_failure
  api:
    pattern: ^/api
    stateless: true
    jwt: ~
  dev:
    pattern: ^/(_(profiler|wdt)|css|images|js)/
    security: false
  main:
    lazy: true
    provider: app_user_provider
access_control:
  - { path: ^/api/register, roles: PUBLIC_ACCESS }
  - { path: ^/api/login, roles: PUBLIC_ACCESS }
  - { path: ^/api, roles: IS_AUTHENTICATED_FULLY }
```

Api/login musi być umiejscowione przed api żeby to zadziało

17. Stworzenie Dashboard i Register kontroler

```
php bin/console make:controller DashboardController
```

```
php bin/console make:controller RegistrationController
```

18. Konfiguracja .env

```
###> lexik/jwt-authentication-bundle ###
JWT_SECRET_KEY=%kernel.project_dir%/config/jwt/private.pem
JWT_PUBLIC_KEY=%kernel.project_dir%/config/jwt/public.pem
JWT_PASSPHRASE=6749d81896eb4b5e723c8a90868e6e2cda03360cf288b84561dc1f1del7c4f8e
###< lexik/jwt-authentication-bundle ###
```

Najpierw stworzymy klucze potem utworzy nam się to samo w pliku .env

19. Tworzenie nowego kontrolera:

```
php bin/console make:controller TokenController
```

20. Testowanie API z JWT

POST

```
inf2s_l63l05@inf2s_l63l05:/var/www/zad3_jwt$ curl -X POST http://zad3.local/api/register -H "Content-Type: application/json" -d '{
    "email": "user@gmail.com",
    "password": "password123"
}' | jq
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           %    0     0    0         0             0      0      0
100  120    0   44  100    76    120    208 --:--:-- --:--:-- --:--:--   329
{
  "message": "Pomyślnie zarejestrowano!"
}
```

		id	email	username	roles (DC2Type=json)	password
<input type="checkbox"/>	Edit Copy Delete	3	user@gmail.com	user@gmail.com	[]	\$2y\$13\$EKGuXfOYrRakJribnr.vCOXNrijWAmr9MBjli916zzi...

```

inf2s_163105@inf2s163105:/var/www/zad3_jwt$ curl -X POST http://zad3.local/api/login_check -H "Content-Type: application/json" -d '{
  "username": "test",
  "password": "test123"
}' | jq
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total   Spent    Left   Speed
100  557    0  492  100    65    1266    167  --:--:--  --:--:--  --:--:--  1431
{
  "token": "eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiJ9.eyJpYXQiOiJlM3R5MTc2MjQsImV4cCI6MTc2NjE5MTUyNCwicm9sZXMiOiJlUk9MRV9VU0VS10siSwzXkUyW11iOiJ0dGZdCU9.csm0Us98ZET0XpG_3qVocuZDUhahBD-d-0QmElpwygj2wR5ZcM1DVeSHB-PE-mxKU0puU9WSEsW_RdtUEgR9Cnsw9i6Psmzb52EOoMGNJ8zc4wqoC_10WN8IsHwbxp8Bnw1zRHnss_4qM3cnXL35yMYR6Yd1klfHwz3xelaH4V5kqgbvbm0ho4bP32LB0JQnwoCOEWj9CbfBgqlniHZkWJfUeGCITbXmkEXcWnC5wrBaObFXHEqy9tOzF-89eoqJO1F_BS_RN89HAbFEXKcy8DaCCDEone1U5agbui0cJEwpzJkHl8s2g196Jyq1RXALlwyOKy74Xz_veXamEu8mIlw"
}

```

GET

```
inf2s_163105@inf2s163105:/var/www/zad3_jwt$ curl -H "Authorization: Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiJ9.eyJpYXQiOjEzMTEyMTgmcTcsImV4cCI6MTcxNjElNDExNywicm9sZXMiOiIsInVzZXRyYWllIjoideGVzdCJ9.eapOpJFN2HQ18cDDbUNEJxFTURHSHsrPQOSJ9IpbWbp17xv54GFksL7z3x2uDk3ASAX2JLQakhto3yWbp7nhlxEse4VALSf6PGbk8kBUINs5ljtyVLMvap_4h8TDjlcDoFvsxnZc0mtZpThKdrcXy9DfgAhaZYMF7F5kwj5upSv-meZSSZFyGFGee834A_75_GLfxhxhEalX1HTv33XFgp9WSRKGyJJoOPBkXLzwxStheWDXu5vAo9MPdpM2jJqyQzhBPzr27lmifsyu_MY4coJc_O6vt-y7aBfhflhhcDlb7xe_rHOJ8tY6sAYttfosByOHyk4ydlvuidSU-bL2Q" http://zad3.local/api/dashbord | jq
```

```
{
  "message": "Wow udalo ci si!",
  "path": "src/Controller/DashboardController.php"
}
```

21. Wdrożenie JWT i zobaczenie produktów przed i po logowaniu

```
inf2s_163105@inf2s163105:/var/www/zad3_jwt$ curl -X GET http://zad3.local/api/projects | jq
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total   Spent    Left   Speed
100    75    0    75    0    0    395    0 --:--:-- --:--:-- --:--:--   394
{
  "message": "Brak tokenu, zarejestruj sie i uzyskaj token! JWTNotFound 401"
}
```

Brak dostępu bez tokenu

```
inf2s_163105@inf2s163105:/var/www/zad3_jwt$ curl -X POST http://zad3.local/api/register -H "Content-Type: application/json" -d '{"email":"karkulowski@gmail.com", "password":"karkulowski123"}' | jq
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total   Spent    Left   Speed
100   108    0    45  100    63   123   172 --:--:-- --:--:-- --:--:--   295
{
  "message": "Pomyślanie zarejestrowano!"
}
inf2s_163105@inf2s163105:/var/www/zad3_jwt$ curl -X POST http://zad3.local/api/login_check -H "Content-Type: application/json" -d '{"username":"karkulowski@gmail.com", "password":"karkulowski123"}' | jq
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total   Spent    Left   Speed
100   580    0   515  100    65  1404   177 --:--:-- --:--:-- --:--:--  1584
{
  "token": "eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiJ9.eyJpYXQiOiE3MTYxMjExMDg5ImV4cCI6MTcxNjE1NzEwOCwicm9sZXMiOiJ9a22YNUVSI0sInVzZXJuYXV1Ijoia2Fya3Vsb3dza21AZ21haWwY29tIn0.LGpQCAe3e2g-87chf2WNuSgc79LER0CLT71Fo9wGxzYqSr5ErBERf_J9a22YNUPtqdXh_8J-DqW4ulYVDzDuMsoskXnj0xpFNWrEhXOofBzt3gvqqtzm-zYitfAezhfsqGmzTAIx3kBYi9MoP7HtbvwMFJKtLQn7_99ayivgA0iqKTXqa2UQ1Uyv4wAqRxTszNpA0-sWSLqkQhXOKYV-sqi5C9JYEu8wDc-rfk2EAP0owk2xUEcnQ-PlzNc_-eXevYBG1lKUX2JVDOhtj7Qx1F3VjD_M8oueouQiEZI3-1wOr8-eP8qKmAelq_eAkOVlFG3rU4bPHfxPjB08kpjEg"
}
inf2s_163105@inf2s163105:/var/www/zad3_jwt$ ^C
inf2s_163105@inf2s163105:/var/www/zad3_jwt$ curl -H "Authorization: Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiJ9.eyJpYXQiOiE3MTYxMjExMDg5ImV4cCI6MTcxNjE1NzEwOCwicm9sZXMiOiJ9a22YNUVSI0sInVzZXJuYXV1Ijoia2Fya3Vsb3dza21AZ21haWwY29tIn0.LGpQCAe3e2g-87chf2WNuSgc79LER0CLT71Fo9wGxzYqSr5ErBERf_J9a22YNUPtqdXh_8J-DqW4ulYVDzDuMsoskXnj0xpFNWrEhXOofBzt3gvqqtzm-zYitfAezhfsqGmzTAIx3kBYi9MoP7HtbvwMFJKtLQn7_99ayivgA0iqKTXqa2UQ1Uyv4wAqRxTszNpA0-sWSLqkQhXOKYV-sqi5C9JYEu8wDc-rfk2EAP0owk2xUEcnQ-PlzNc_-eXevYBG1lKUX2JVDOhtj7Qx1F3VjD_M8oueouQiEZI3-1wOr8-eP8qKmAelq_eAkOVlFG3rU4bPHfxPjB08kpjEg" http://zad3.local/api/projects | jq
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total   Spent    Left   Speed
100    45    0    45    0    0   2106    0 --:--:-- --:--:-- --:--:--  2045
[
  {
    "id": 1,
    "name": "Test",
    "description": "test"
  }
]
```

Po stworzeniu użytkownika, uzyskaniu tokenu i zalogowaniu się można zobaczyć dane zawarte w tabeli projects

22. Uzyskanie własnego tokenu i informacji o nim

```
fQ.HsfBfEn7Iih4uAnFepyN2BoOngU_veRJgCoJlU4-OIDHT3sURwXU1P8jZdtcfeETGh9uYeiwCWNQ1
ERrOgvT69ZEXzgrI9qajxn8DIRjrylR0Oh3-R_G-p0ICQ0N055TLhPq9IRS_vEKQ1NldPsrEDMmXU-e
Unmc0xCxCNdQGx3QXxKQ-MKZiyEWq7Ztw2Vae3T4FQBPRtJHniY76gqoVLmhvDhb5Q8lnFCyHySpCpEc
jaBguErkPaGhg-EbwaBLz7fN8I_XSPXeMQn6a_pNQD2jl22QwwW48B4Kso6DXZ9sGxlFmopl3iz6tDj3
AGEIKHklDhYCIY_cPU0bJwdMg" -H "Content-Type: application/json" -d '{}' | jq
% Total      % Received % Xferd  Average Speed   Time    Time     Time  Current
             Dload  Upload   Total     Spent    Left     Speed
100    660      0   658    100      2   16144      49  --:--:--  --:--:--  --:--:--  16500
{
  "Token": "eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiJ9.eyJpYXQiOiE3MTc3NDUwOTEsImV4cCI6MTcxODEwNTA5MSwicm9sZXMiOiI0siUk9MRV9VU0VSIl0sInVzZXJuYXllIjoidG9tZW5ifQ.HsfBfEn7Iih4uAnFepyN2BoOngU_veRJgCoJlU4-OIDHT3sURwXU1P8jZdtcfeETGh9uYeiwCWNQ1ERrOgvT69ZEXzgrI9qajxn8DIRjrylR0Oh3-R_G-p0ICQ0N055TLhPq9IRS_vEKQ1NldPsrEDMmXU-eUnmc0xCxCNdQGx3QXxKQ-MKZiyEWq7Ztw2Vae3T4FQBPRtJHniY76gqoVLmhvDhb5Q8lnFCyHySpCpEcjaBguErkPaGhg-EbwaBLz7fN8I_XSPXeMQn6a_pNQD2jl22QwwW48B4Kso6DXZ9sGxlFmopl3iz6tDj3AGEIKHklDhYCIY_cPU0bJwdMg",
  "Wydany (czas serwera)": "07/06/2024 07:24",
  "Czas wygaśnięcia (czas serwera)": "11/06/2024 11:24",
  "Uprawnienia": [
    "ROLE_USER"
  ],
  "Użytkownik": "tomek"
}
inf2s_163105@inf2s163105:~$
```

23. Weryfikacja własnego tokenu

```
inf2s_163105@inf2s163105:~$ curl -X POST http://zad3.local/api/token/verify -H "
Authorization: Bearer ^C
inf2s_163105@inf2s163105:~$ curl -X POST http://zad3.local/api/token/verify -H"A
uthorization: Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiJ9.eyJpYXQiOiE3MTc3NDUwOT
EsImV4cCI6MTcxODEwNTA5MSwicm9sZXMiOiI0siUk9MRV9VU0VSIl0sInVzZXJuYXllIjoidG9tZW5ifQ
.HsfBfEn7Iih4uAnFepyN2BoOngU_veRJgCoJlU4-OIDHT3sURwXU1P8jZdtcfeETGh9uYeiwCWNQ1ER
rOgvT69ZEXzgrI9qajxn8DIRjrylR0Oh3-R_G-p0ICQ0N055TLhPq9IRS_vEKQ1NldPsrEDMmXU-eUn
mc0xCxCNdQGx3QXxKQ-MKZiyEWq7Ztw2Vae3T4FQBPRtJHniY76gqoVLmhvDhb5Q8lnFCyHySpCpEcja
BguErkPaGhg-EbwaBLz7fN8I_XSPXeMQn6a_pNQD2jl22QwwW48B4Kso6DXZ9sGxlFmopl3iz6tDj3AG
EIKHklDhYCIY_cPU0bJwdMg" -H "Content-Type: application/json" -d '{}' | jq
% Total      % Received % Xferd  Average Speed   Time    Time     Time  Current
             Dload  Upload   Total     Spent    Left     Speed
100    51      0    49    100      2   5699      232  --:--:--  --:--:--  --:--:--  6375
{
  "status": "valid",
  "message": "Token jest aktywny"
}
```

