**Creating Simple Symfony Login and Registration module with RESTAPI**

**Steps**:

1. **Create a basic UI**

Login with

Make controller (php bin/console make:fixtures)

Create user twig file

Creating User Enity

public/css/login.css

change the user entity (php bin/console make:user)

2. Data Migrations

Before data migration, change the db version username and password in the **.env** file.

php bin/console doctrine:migrations:migrate

3. Adding users to db

php bin/console make:fixtures

php bin/console doctrine:fixtures:load

php bin/console doctrine:query:sql "SELECT \* FROM user"(Viewing Data)

4.Authenticators/ Login:

php bin/console make:auth

creates a loginFormAuthenticator.php in src/security

File Path:

\the\_spacebar\config\packages\security.yaml

main:

anonymous: lazy

guard:

authenticators:

- App\Security\LoginFormAuthenticator //Main Security

5. Clear Cache:

php bin/console cache:clear

6. Logout:

Add Method in the controller

Security.yaml

main:

anonymous: lazy

.

.

logout:

path: app\_logout

7. CSRF Protection:

Add CSRF Return value in sites\the\_spacebar\src\Security\LoginFormAuthenticator.php

Add CSRFTokenManagerInterface in controller method.

8. Remember Me:

Security.yaml

main:

anonymous: lazy

.

.

Remember\_me:

secret: '%kernel.secret%'

lifetime: 2592000 # 30 days in seconds

php bin/console debug:container –parameters [Shows the parameters we here use for checking the kernel secret key environmental variable]

9. Api for Login

Controller: \sites\the\_spacebar\src\Controller\AccountController.php

: \sites\the\_spacebar\src\Controller\BaseController.php

Creating Json objects, API Endpoints in the AccountController.php

Here we use serializer pack.

10. Api Token Authentication system:

Create ApiToken Entity for datamigrations.

Create one to many connections

Create Fixtures

php bin/console doctrine:fixtures:load

Run the query to check the affected rows

php bin/console doctrine:query:sql 'SELECT \* FROM api\_token'

Type of authenticator:

php bin/console make:auth

Make Changes in Security.yaml

Check <http://localhost:8000/api/account> in postman to return the response.

11. Checking API Token Expiration:

Inside ApiToken, we created this nice expiresAt property.

\sites\the\_spacebar\src\Security\ApiTokenAuthenticator.php

We add the following methods in advannce

onAuthenticationSuccess()

start() & supportsRememberMe()

finally, supportsRememberMe(). Return false:

12. User Registartion:

Creating the Registration Form

In SecurityController ,add a new public function register():

Create twig file in temaple register.html.twig

Use SecurityConroller.php with a few arguments: the $user that's being logged in, the $request object, the authenticator - $formAuthenticator and the "provider key". That's just the name of your firewall: main:

**Note:**

**Environment Creation in Local using Xampp Server**

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C:\xampp\htdocs\sites\the\_spacebar\public\.htaccess

C:\xampp\apache\conf\extra\httpd-vhosts.conf

Add the following path in windows environment:

;c:\xampp\php\PEAR\symfony;c:\xampp\mysql\bin;c:\xampp\php;c:\xampp\php\PEAR

**Bundles installed:**

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composer require jms/serializer-bundle

composer require friendsofsymfony/rest-bundle

composer require sensio/framework-extra-bundle

composer require symfony/validator

composer require symfony/form

composer require symfony/orm-pack

composer require symfony/monolog-bundle

composer require symfony/security-bundle

composer update symfony/maker-bundle

composer require --dev symfony/profiler-pack

composer require symfony/asset

composer require --dev symfony/maker-bundle symfony/profiler-pack symfony/web-server-bundle

composer require doctrine/annotations

composer require symfony/maker-bundle –dev

composer require orm-fixtures –dev (for fixtures)

composer require fzaninotto/faker –dev

**To Create a Project**

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composer create-project symfony/the\_spacebar 4.4.\*

**To run Symfony Environment Server**

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php -S 127.0.0.1:8000 -t public

**Reference**

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