FIRST TERM PROJECT, SERVER-SIDE DEVELOPMENT: **MESSAGING APPLICATION**

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Introduction

This web application consists of a GMail based functionality. It consists of several screens where you can select users which exist on the app database to send them mails. Creating groups, changing profile data or resetting passwords are some other possible functionalities.

Extensions table

| ENLARGEMENT	MADE (Y / N)
A1	Y (but not working properly)
A2	Y (but not working properly)
A3	Y
A4	Y
A5	Y
A6	Y
A7	N
A8	Y
A9	Y
A10	N
A11	N
A12	N
A13	Y
A14	Y
A15	N
A16	N

E/R Scheme (ideal)

The ideal E/R Scheme was something similar to what we can see below. However, relations itself were not created during the development of the webapp (even though it works properly), and together with the new entities that Symfony creates itself, the scheme turns into a different one. We can see it in the section "Logical Model" just below.
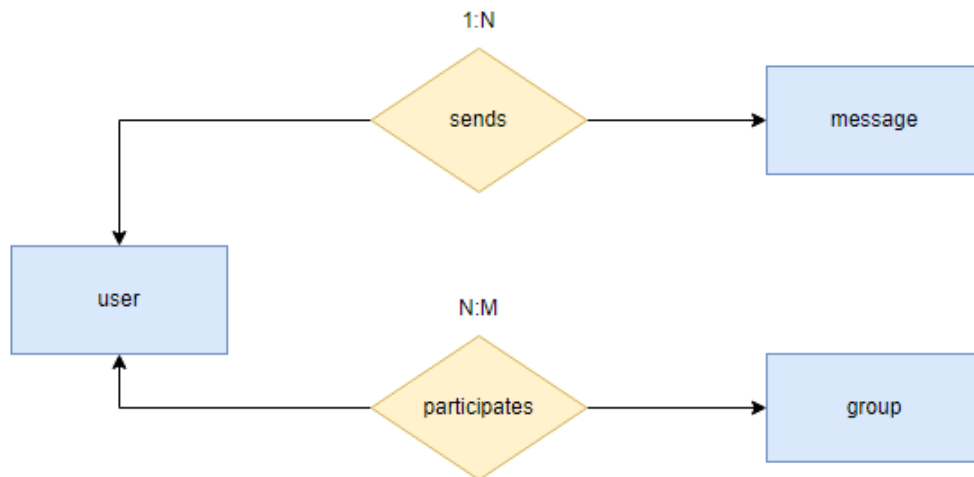
Logical model
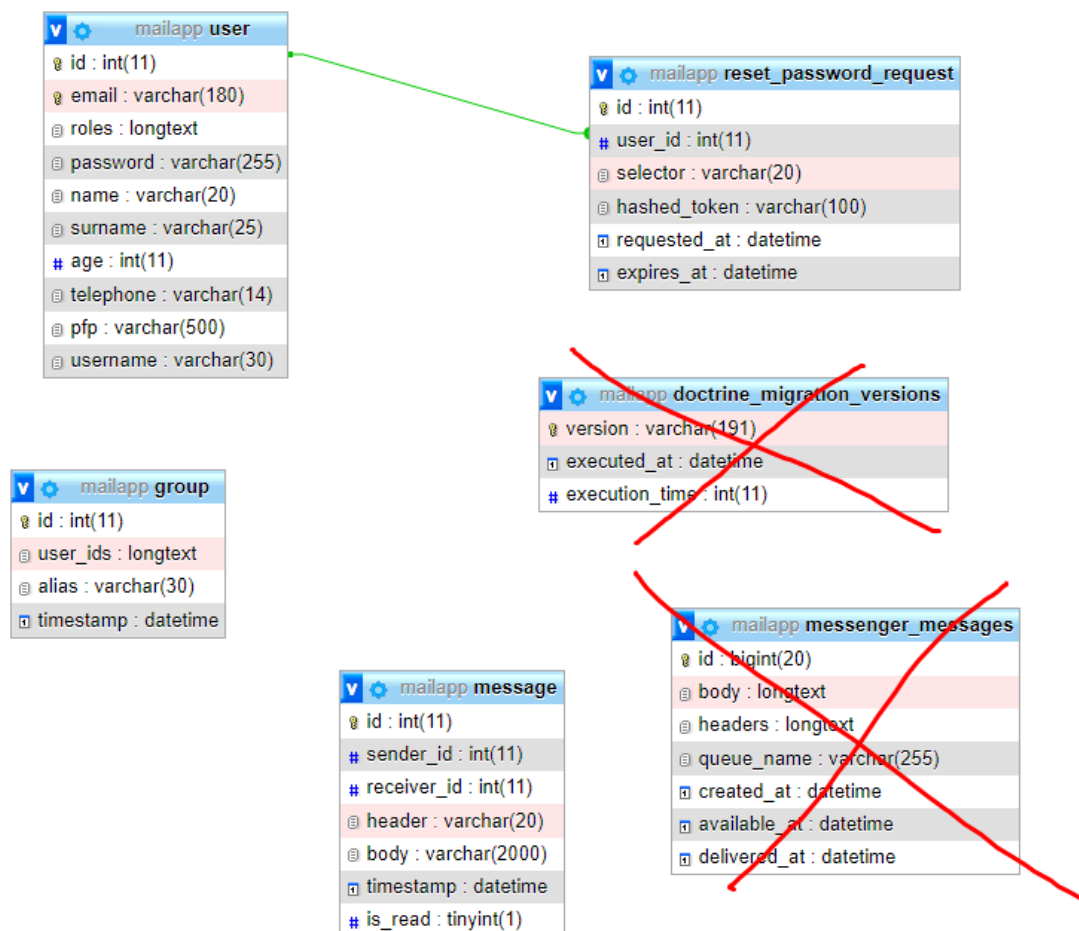
The tables crossed out are tables created by Doctrine.
There are no relations at all, but working with IDs makes the functionality possible, so there will not be any further problems.

User manual

Previous indications

- The interface is not very well done. It contains Bootstrap, some inline CSS in HTML tags,etc. There are even pages without any CSS, but all this is just to be able to differentiate between the different sections of the application, and it is not going to be graded.

- Emails will be sent by "talesdemiletoxd@gmail.com", a personal email address used to test things like this. This email will send verification and password recovery messages.

- AJAX is not implemented, so to check the new emails inside your inbox or outbox you may need to refresh the current page (or pressing F5.

Requirements

- PHP >= 7.1
- Symfony 6
- Composer
- Doctrine
- yarn
- MySQL
- XAMPP

Usage

Installation

After downloading / cloning the project, you will need to install all the dependencies and extensions added to it. This is simple, yo will just need to run the following commands:
- $ composer install
- $ yarn install

If you do not have yarn, you will need to install it first:
- $ npm install --global yarn

The extensions added with yarn can also be added with npm, but I recommend you to use yarn, just in case it leads to any problem.

this first command should not be necessary, but here it is, just in case
- $ yarn add --dev @symfony/webpack-encore

this one must be run
- $ yarn encore dev

Because of Bootstrap, you may also need to run the command below, but the terminal itself will tell you how to solve any of these problems:
- $ yarn add sass-loader@^12.0.0 sass --dev

Database

In order to create the database, you will need to create the database and migrate the last version found in the project. To do this, you will have to run the following commands:
- $ php bin/console doctrine:database:create
  (a migration will be found inside the project, so you should not need the following command)
- $ php bin/console make:migration

Now you can choose one of these commands. The second one is quite direct and insecure in some terms, but it should work perfectly if the migration fails:
- $ php bin/console doctrine:migrations:migrate
- $ php bin/console doctrine:schema:update --force

There are already some users, messages and groups created.
For every user, the password is: 123456
Some users to try:
- pepe@gmail.com
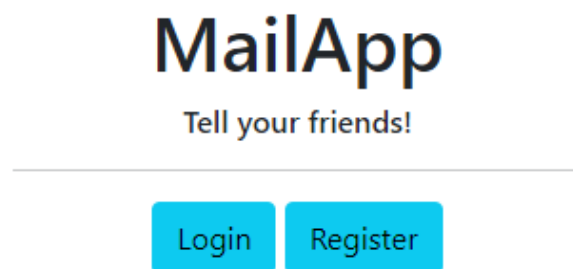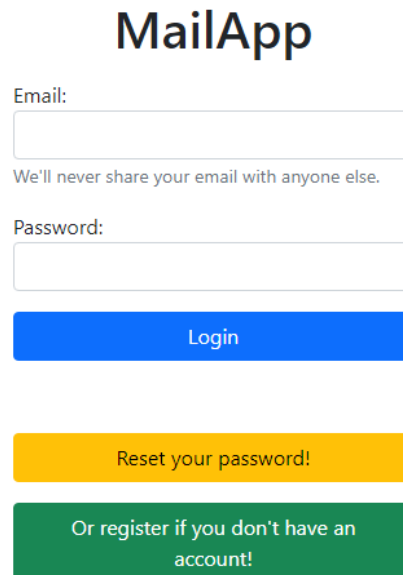- luis@gmail.com
- mauro@gmail.com

Root user (login)
- Email: root
- password: 123456

Full Usage

First of all, you will see a landing page where you can even Login or Register.

Clicking to your login page will send you to a simple form where you can enter into your account.

In case we need to reset our password, we can click on the yellow button, which will send us to another simple form where you can insert your email to receive a message with another link, in which you can reset your password (but it is not working properly).

Reset your password

Email [   ]

Enter your email address and we will send you a link to reset your password.

[Send password reset email] [Go to landing page]

In other cases, you may want to create a new account for the webapp, so you can click register and enter another simple form to register.

Indications:
- Email: well formatted (xxx@xxx.xxx).
- Password: 6 characters min.
- You need to agree terms.

Register

Name: [   ]

Surname: [   ]

Username: [   ]

Age: [   ]

Email: [   ]

Password: [   ]

Telephone: [   ]

Profile Picture: [Seleccionar archivo] Ningún archivo seleccionado

Agree terms ☐

[Register]

After registering you should also receive a new message to your official email manager to get an activation link for your account, but once again, automatic emails are not working.

In case you logged in and you are able to enter the app, the first screen you will see is the Home page, where you have a simple navbar with all the options and your Inbox (basically, the homepage is the inbox).

MailApp   Home Outbox Send Message Groups Profile Logout

Inbox :: alfreeznx

luis@gmail.com	**Help** Hey, do you need help w... 2022-03-02 09:54:05	
root	**rerererere** asdasddsadsaasdasddsa... 2022-02-28 22:54:42	☑
cordero@gmail.com	**0la chicos** 0la 2022-02-28 21:33:54	☑

200 @ home 327 ms 2.0 MiB 32 2 in 0.02 ms apgalle03@gmail.com 6 ms 3 in 3.28 ms 3   Server 6.0.4 ✕

As we can see, the full content of the message is not shown, and there are 2 messages with a small symbol on the right. That is a seen indicator. Whenever you open a message to see it, that symbol will appear.

You can see full messages by clicking on them.

MailApp   Home Outbox Send Message Groups Profile Logout

luis "luis" luis
luis@gmail.com

Subject:
Help

Content:
Hey, do you need help with something related to Symfony?

Sent at:
2022-03-02 09:54:05

Answer to this mail

You can see the full name with the username between quotes (""), the subject of the email, its content and when it was sent. You can also see a yellow button to answer, but first, let's check the seen indicator.

Inbox :: alfreeznx

![luis avatar]	**luis@gmail.com**	**Help** Hey, do you need help w... 2022-03-02 09:54:05	☑
![root avatar]	**root**	**rererererere** asdasddsadsaasdasddsa... 2022-02-28 22:54:42	☑
![cordero avatar]	**cordero@gmail.com**	**0la chicos** 0la 2022-02-28 21:33:54	☑

And as we said, once you see the message, the seen indicator appears (but this is only possible for the inbox messages).

Going back to our received messages, once you click the yellow button, you will be sent to the usual Send Message form.

Answer to this mail

The default Send Message form is this one:

Send Message

From: apgalle03@gmail.com

To:

Head:

Body:

Send Email **Delete**

Or you can send a message to several contacts

But in this case, the form will be this one:

Send Message

From: apgalle03@gmail.com

To: luis@gmail.com

Head: Re: Help

Body:

Send Email   Delete

The "To" slot will be automatically filled with the other user's email and the head will be filled with "Re:" together with the initial head of the message.

Once we send the message, we will be redirected to our Home, and we can check if we sent it correctly by entering the Outbox.

Outbox :: alfreeznx

luis@gmail.com

Re: Help
I've just finished! Thank ...
2022-03-02 10:03:42

cordero@gmail.com

[amen]
alfreeznx:
a<sxasdasdsda
2022-03-01 23:54:25

[amen]

As we can see, the message was sent correctly.

Now, let's check the part left in the Send Message section!

Head:

Body:

Send Email   Delete

Or you can send a message to several contacts

Once we click that button, the form changes into a new one with a select instead of a text input.

In it, you can select any of the users inside the database anad, by pressing CTRL + click, you can choose various and send them a message.

If we go to our outbox:

Outbox :: alfreeznx

⬤	**root**	**multiple** **message tex** Hey! This is just a test! 2022-03-02 10:09:06
pfp	**pepe@gmail.com**	**multiple** **message tex** Hey! This is just a test! 2022-03-02 10:09:06
⬤	**mauro@gmail.com**	**multiple** **message tex** Hey! This is just a test! 2022-03-02 10:09:06

All of them have received the message!

We have seen that we can send messages to multiple recipients, but we can algo send messages to groups! We just need to go to the Groups section and click on them to send a message! If you do not have any group, you can create it on the form that appears over your group container.

New Group

Alias: [   ]

Participants:
```
root
pepe@gmail.com
mauro@gmail.com
vir@vir.com
```
[Create group] [Delete]

Groups :: alfreeznx

👥	**amen**	alfreeznx Created: 2022-03-01 22:08:43 pepe mauro zeinix luis cordero

We are going to create a new group with pepe and mauro and try to send a message.
The process to create it is the same as the one to send messages to multiple recipients, CTRL + click on the people you want, add an alias and click "Create group".

Groups :: alfreeznx

| | friends | alfreeznx
pepe
mauro | Created: 2022-03-02 10:15:44 |
| | amen | alfreeznx | Created: 2022-03-01 22:08:43 |

If we click on the group, we will be able to send them a message, as the receivers will be directly selected and the head will contain the alias between brackets and the username of the sender.

Send Message

From: apgalle03@gmail.com

pepe@gmail.com
mauro@gmail.com

To:
Head: [friends] alfreeznx:

Body:

Send Email   Delete

**Due to the software architecture (and the time left for the deadline), groups haven't been optimized, so here is the explanation of the functionality. Groups are basically a set of user IDs, so this form takes all those IDs and sends them an email with a header that indicates that the message comes from a group. It cannot be printed as a full grupo due to the code. The slots of the messages from groups are displayed as a message to the first participant of the group with the alias of the group on the header.

| | mauro@gmail.com | [friends]
alfreeznx:
Group message!
2022-03-02 10:21:19 |

And when received and opened, it is displayed like this:

Alfredo "alfreeznx" Puerta
apgalle03@gmail.com

Subject:
[friends] alfreeznx:

Content:
How are you?

Sent at:
2022-03-02 10:21:48

Answer to this mail

In this MailApp, we can also change some of our profile information. We just need to click on "Profile" and we will be redirected into this small form.

Customize Profile :: alfreeznx

Username: alfreeznx
Telephone:
Profile Picture: Seleccionar archivo Ningún archivo seleccionado

Save Changes   Reset

In this case, we can change the username, the telephone and the profile picture, and when we change them, it will automatically update the profile and the database:

Customize Profile :: alfreeznx

Username: alfreeznx_test
Telephone: 000000000
Profile Picture: Seleccionar archivo kakashi.jpg

Save Changes   Reset

Home   Outbox   Send Message   Groups   Profile   Logout
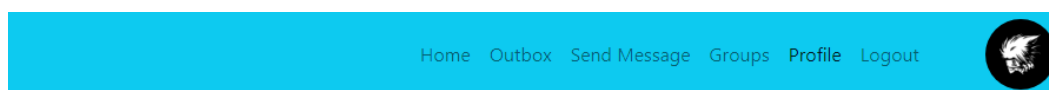
Customize Profile :: alfreeznx_test

Username: alfreeznx_test
Telephone: 000000000
Profile Picture: Seleccionar archivo Ningún archivo seleccionado

Save Changes   Reset

name	surname	age	telephone	pfp	username
root	root	99	NULL	pfp_default.jpg	root
Alfredo	Puerta	19	000000000	kakashi-621f46453a607.jpg	alfreeznx_test

Finally, we have the "Logout" section, which we can just click on it and we will log out and be redirected to the landing page of the WebApp.

Extra:

For users with admin roles, there is also an **Admin Zone**.
In case you are "admin", you will be able to see this on your navbar.
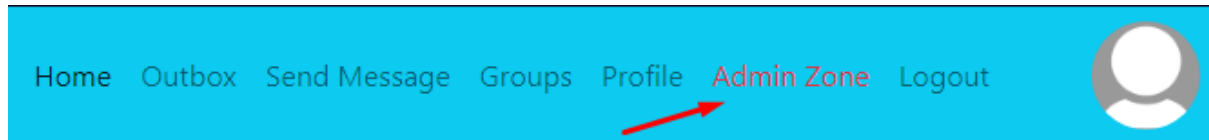
Once in there, a table will be displayed with some of the data of the users.

Now we will have two options. We can either display a user's information by clicking "Show":

Or we can delete it either on the Admin Zone screen or on the display of the user itself.
Wherever we are, an alert will be displayed after we delete a user:
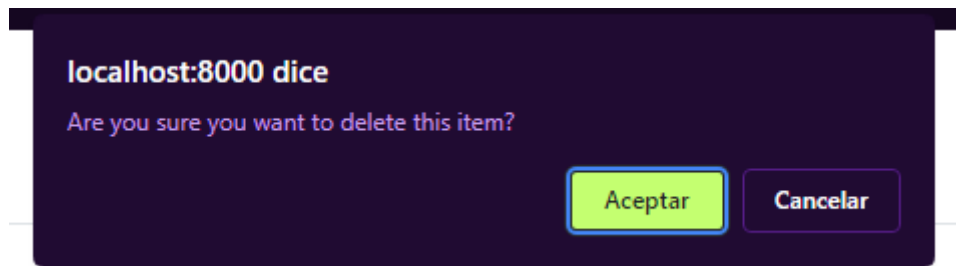
And with this, all the webapp is covered.
Hope you like it!

Controllers

- AdminController
- GroupController
- HomeController (inbox)
- LoginController
- MessageController
- OutboxController
- ProfileController
- RegistrationController
- ResetPasswordController
- SecurityController

Extensions

A1. SELF REGISTRATION (not working properly)

Done with a function that sends an email with a link. By clicking this link, the user is redirected to a page to complete its activation, but the Symfony mailer is not working properly so couldn't be completed.

A2. PASSWORD RECOVERY (not working properly)

Done with a function and a controller that sends another email with another link. This time it redirects to another page where you can reset your password, and the functionality of the emails expires in 1h. However, once again, it couldn't be possible because of the Symfony mailer.

A3. MESSAGES TO MULTIPLE RECIPIENTS

Messages to multiple recipients by a specific form with a select.

A4. ENCRYPTED USER PASSWORD

Done using the default password hashing that Symfony offers with its RegistrationController.

A5. USER AVATAR

Done with a function that stores files in a directory inside the project and returns the path to it, which is what is stored in the database.Updates are possible.
There are also default avatars in case the user does not upload any and even for groups.

A6. USER PROFILE

The profile can be updated on the same page where we can change the user profile picture. The username, profile picture and the telephone number can be updated. Other users will be able to see some of the information (admin users will be able to see everything in the admin zone).

A8. GROUPS

Groups are done with another controller and an entity. In this case, a group is just a set of user IDs, which are selected if a user wants to send a message to the group.

A9. ADMINISTRATION ZONE

Admin Zone made with CRUD (Symfony). It displays a table with all the users and their info. The admin can display a user's info or even delete it from the webapp and the database.

A13. OUTBOX

Outbox where you can see some data about the messages sent and the people who received them.

A14. PRESENTATION

Presentation of the project at class.

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