

The background of the slide is a composite image. The top half shows a city skyline at night, with lights from buildings and a bridge visible. Overlaid on this is a network diagram consisting of numerous bright, glowing nodes connected by thin, white lines, creating a web-like structure. The bottom half of the slide is a solid dark blue color.

Messaging App Project

WEB DEVELOPMENT IN SERVER ENVIROMENT

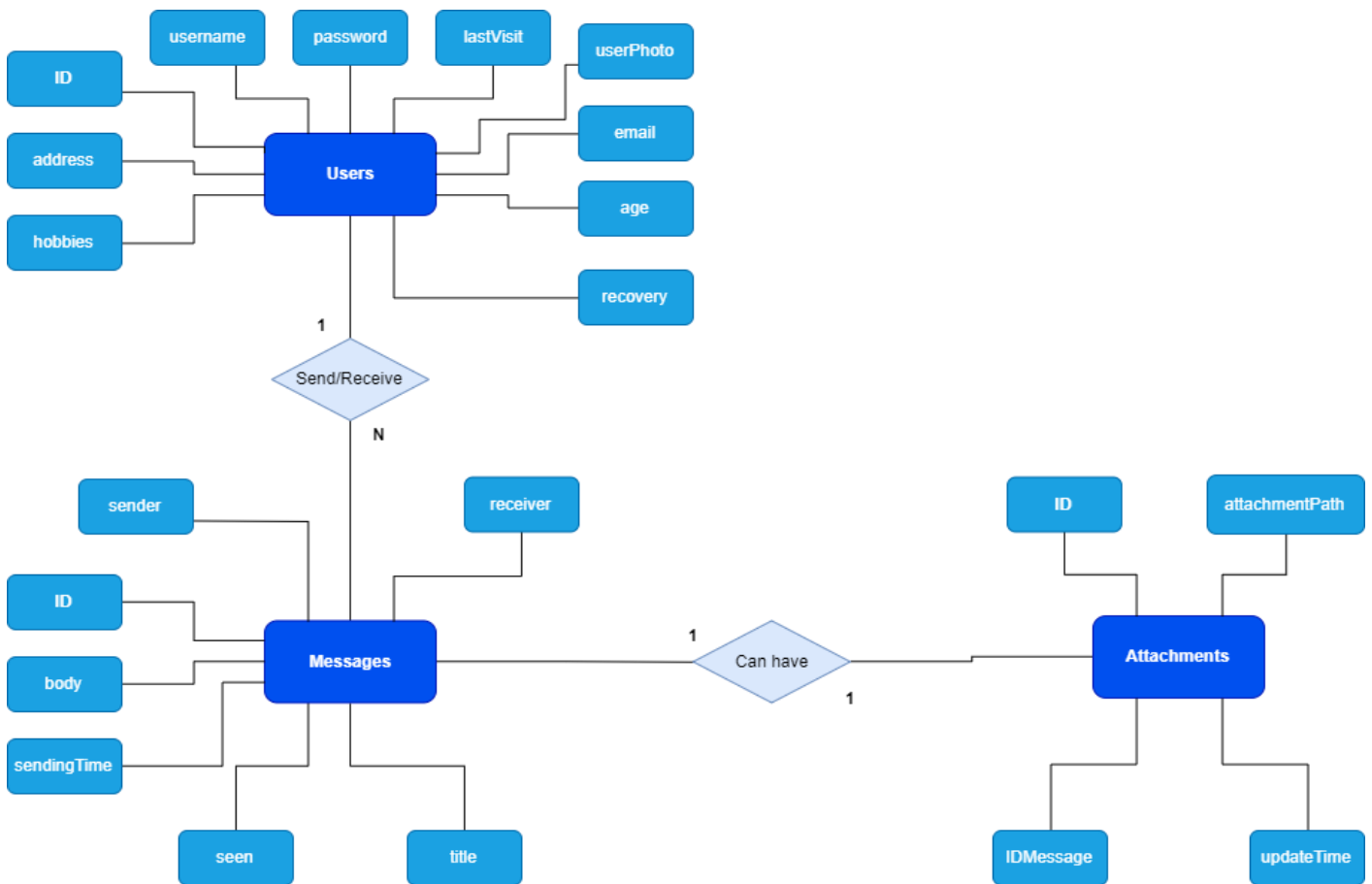
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DW2E

Requirements specification

EXTENSION	IMPLEMENTED (Y / N)
A1	Y
A2	Y
A3	Y
A4	Y
A5	Y
A6	Y
A7	N
A8	N
A9	N
A10	Y
A11	N
A12	Y
A13	Y

Entity / Relationship Scheme



DB Logical Model

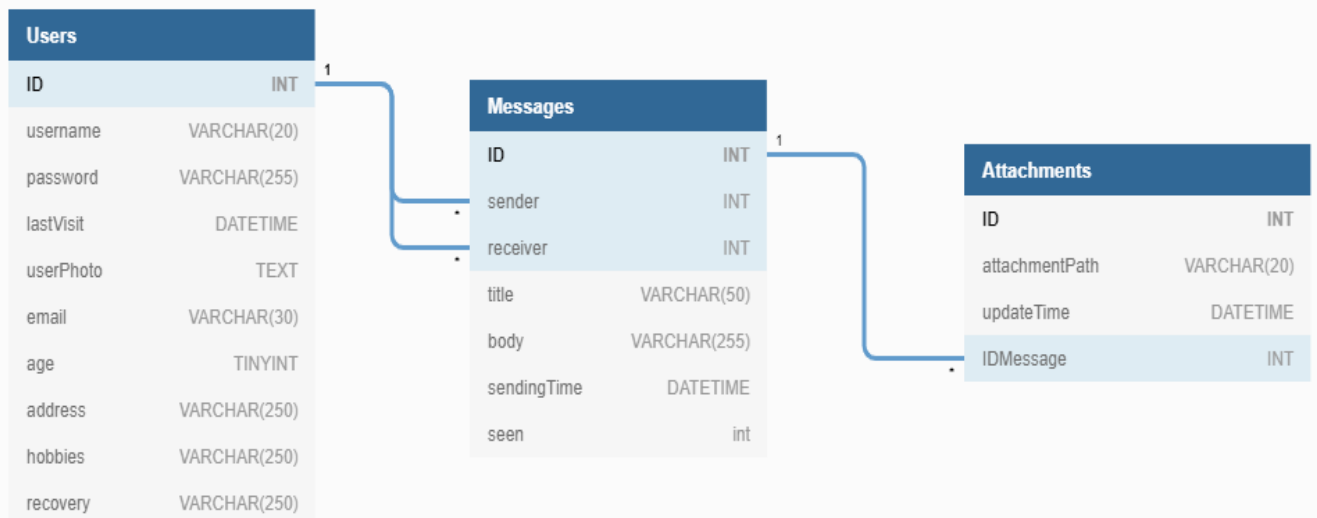
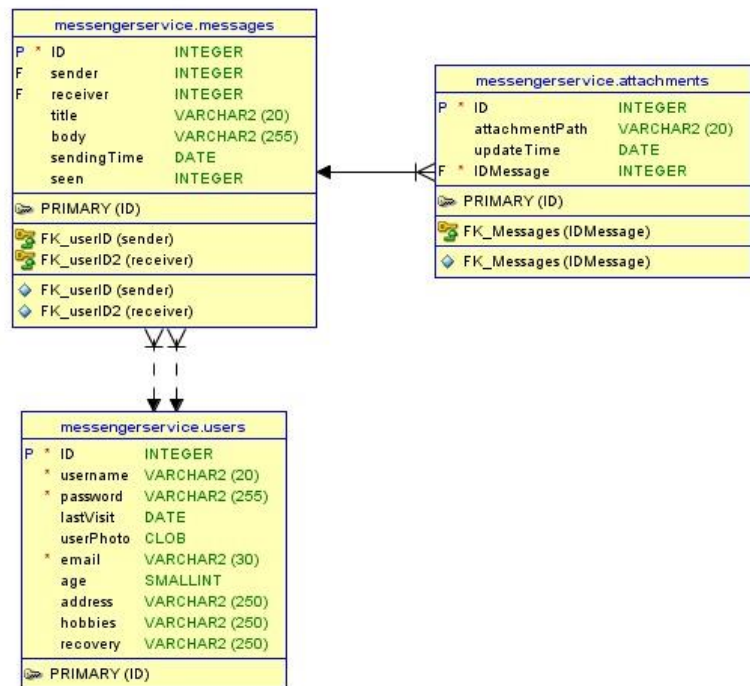
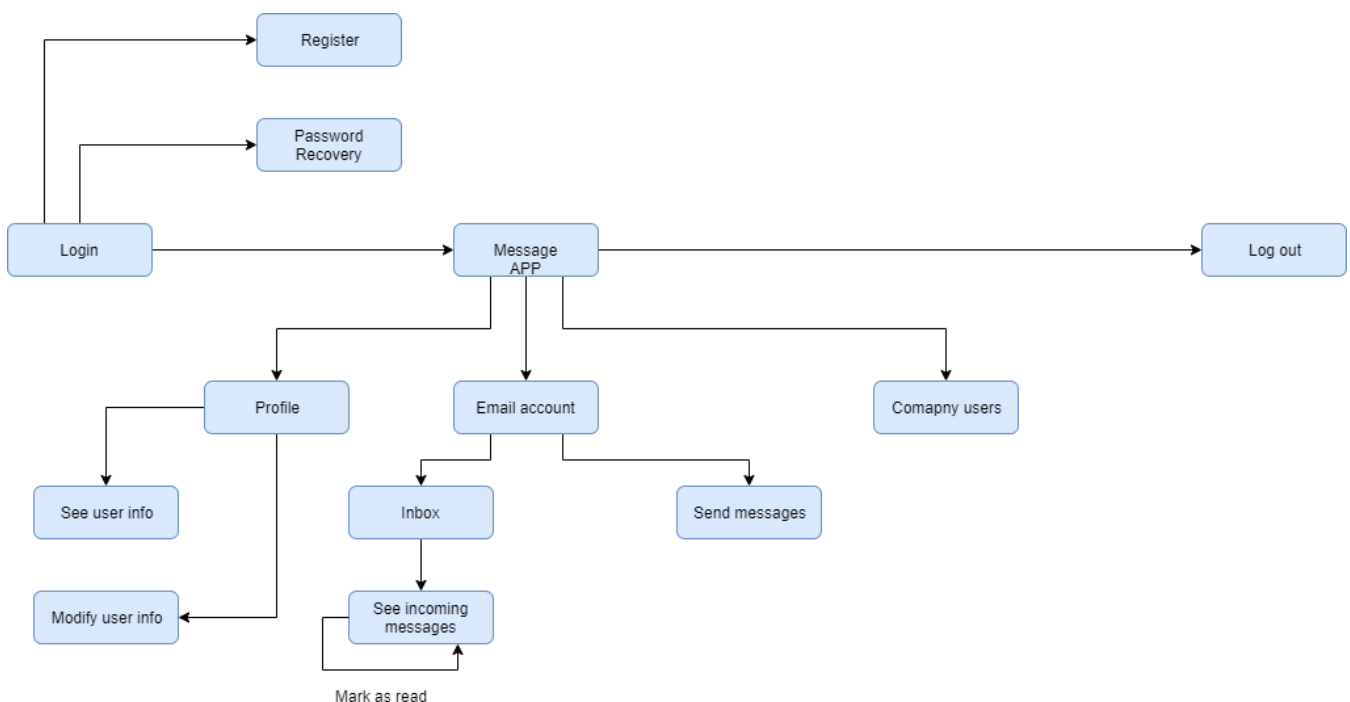


Diagram of the database obtained with SQL Developer



Screen Map



Files brief

The base of our project are **Entities**, one for each element on the database: **Users**, **messages** and **attachment**. Each entity has the same properties as the elements on the database, a constructor and getters and setters to receive the data.

users.php	messages.php	attachment.php
Properties	Properties	Properties
Constructor	Constructor	Constructor
Getters & Setters	Getters & Setters	Getters & Setters

Our app follows the **MVC design pattern**. In our app we have three fundamental parts distributed in different archives:

- **Model:** This layer represents the data. Is the base of the application. The model doesn't depend on the controller or the view.
- **View:** The view display all the data include in model and sends user actions to the controller.
- **Controller:** The controller provides model data to the view and interprets user actions. The controller depends on the view and the model.

We explain in more detail below:

Model

userModel.php	messagesModel.php	archiveModel.php
changeUserState(\$user, \$recoveryString) modifyUsers(\$user) modifyPassword(\$idrec, \$password) updateLastVisit(\$id) updateLastVisit(\$id) loginUser(\$user, \$password) getListUsers() insertUser(\$user)	getMessages(\$user) ModifyMessages(\$message) sendMessage(\$message) getAttachments(\$smsmid)	updateAttachments(\$file) SaveArchive(\$file) AttachArchive(\$file)

The **Model** contains all the methods that are going to be called on the **Controller**. All the archives has some different methods that principally has to do things with the database directly and also with directories. In our case, *userModel.php*, *messagesModel.php* and *archiveModel.php* has methods that made a SELECT, INSERT or UPDATE onto the database. Also, *archiveModel.php* has two methods that manage where are located the archives saved on the system.

Controller

UserController.php modifyUsers(\$user) modifyPassword(\$idrec, \$password)	messageController.php modifyMessage(\$message) getMessages(\$user) getUsers() sendMail(\$message)	archiveController.php modifyArchive(\$archive) attachArchive(\$archive) saveArchive(\$archive)
loginController.php checkLogin(\$username, \$password) makeLogin(\$user)	recoveryController.php sendRecoveryMail(\$user, \$address)	

The **Controller** as we said before is in charge of call the functions in **Model** and navigates through them. We have one for each entity, *UserController.php*, *messageController.php*, *archiveController.php* and two new, for manage the Login on the app, *loginController.php* and for manage Password recovery in case you forgot your password, *recoveryController.php*. This files also call functions found in the model.

View

The **View** is responsible for displaying everything that is generated in both **Model** and **Controller**. The view is shown onto a web browser and created a nice look from the data.

We have *.php* files that mostly has html code, to show the data on the browser. This files, contain different calls to js files and php files.

In view folder we have 4 subfolders: **attachments**, **css**, **img/profile_photo** and **js**:

- In *attachmets* , uploaded files are saved when sending a message. When stored in this folder, for the user who receives the file can download it.
- In *css* we have the external css for the view of the page. We use Sematic UI framework.
- In *img/profile_photo* we storage the profile photos that the users upload to our app.
- In *js* we have external js files that contains different functions and methods that appear on the view, as dinamic elements as click a button, disable buttons, create tables, and the principal core, receive **AJAX requests**. Ajax request are very important in the 'main body' of our app, our mail service, that entirely is made on AJAX.

AJAX:

As we said, our mail service is managed through AJAX request, so we need to explain more in detail the different folders and files that are called to manage the requests.

Outside the view, we have a folder called **ajax**, that contains different *.php* files with functions that manage connections between server side and view. This is the base for the AJAX request, that we made in *httpModule.js*. In this file we create the functions that made the requests.

httpModule.js
ajaxUsers()
ajaxAttachment(id)
ajaxMessages()
ajaxModifyMessage()
ajaxSendMessage()
objectToGetQuery(object)

This file is called on *messenger.php* and here it happen the connections between server and client.

View files

In the table below, we specify the description, the parameters and the redirect to each file.

Path	Description	Parameters	Redirects to
login.php	Login form	\$_SERVER['REQUEST_METHOD'] \$_POST['username'] \$_POST['password']	messenger.php register.php forgotpassword.php login.php
register.php	Register form	\$_SERVER['REQUEST_METHOD'] \$_POST['username'] \$_POST['password'] \$_POST['email']	messenger.php login.php
forgotpassword.php	Password recovery form to receive a email for change the password	\$_SERVER['REQUEST_METHOD'] \$_POST['username'] \$_POST['email']	login.php forgotpassword.php changepassword.php?changeid=...
changepassword.php	Password recovery form	\$_SERVER['REQUEST_METHOD'] \$_POST['username'] \$_POST['newpassword'] \$_POST['newpassword2'] \$_GET['changeid']	login.php
messenger.php	Email inbox	\$_SESSION['user']	profile.php messenger.php companyUsers.php login.php

profile.php	User avatar and info	\$_SERVER['REQUEST_METHOD'] \$_FILES['PhotoProfile'] \$_SESSION['user'] \$_POST['age'] \$_POST['address'] \$_POST['Hobbies']	profile.php messenger.php companyUsers.php login.php
companyUsers.php	List of all the users registered on the app	\$_SESSION['user']	profile.php messenger.php companyUsers.php login.php

User's guide

Introduction

This app has being designed for use as a business email application. It has been programmed for use through XAMPP, using Apache and PHPMyadmin databases. It can be run on any Windows OS that as this tool installed (We recomend Windows 10). For the use of some functions it is necessary that the user owns a valid and fuctional email address.

To 'launch' the program, just go to *htdocs/MessengerServices/src/views* and open **login.php** file.

APP Requirements

For the correct performance of the program it is necessary to have a series of requirements:

- Last version of XAMPP
- Star Apache and MySQL Modules on XAMPP
- Last version of a web browser (Recommended Google Chrome or Mozilla)
- Charge the database of the APP in phpMyAdmin: Opening a web browser and typing localhost/phpmyadmin. First, you need to go to SQL tab and copy the content in **setup.sql**, available on *htdocs/MessengerServices/src/config*. Now that the database is created, you need to copy the content in **messengerserviceDB.sql**, available on the same folder mentioned before, and repeat the steps bellow. Once you click on 'Continue' button, the APP is ready to start.
- We use PHPMailer in one function in the APP. In order to check if this function works, is needed to configure the file **recoveryController.php**. You can found it in *htdocs/MessengerServices/src/controller*. You need to add your mail configuration in line 27, 28 and 29.

IMPORTANT! Your email provider MUST BE Gmail. Here's an example.

```
- $mail->Username = "example@gmail.com"; // Here goes your email
  $mail->Password = "password"; // Here goes your email password
  $mail->SetFrom("example@gmail.com", 'NoReply' ); // Here goes your email
```

Logging in

The first screen you seen when you ‘start’ the application is the **Log in** with a **User** and a **Password**.

Log In

User *

Please enter a value!

Password *

Please enter a valid password!

[Forgot password?](#)

Log In

Register

We have some test data to get Log in, that are the following:

User: Mayte **Password:** Mayte1234

User: Gero **Password:** Gero1234

User: Test **Password:** Test1234

You have to enter the credentials and if all the data is correct the button **Log in** will be activated to get into the application.

Register

On the **Log in** page appears a second button, that guides you to another screen to **Register** onto your application. It will appear another form with **User**, **Password** and **Email**.

In here we have some specifications:

- The **user** can't have blankspaces, must be a single word.
- The **password** should contain at least one digit, one lower case, one upper case and 8 characters from the mentioned previously.
- The **email** should be a valid email. This is important because is the email where the password recovery will be sent in case the user ask for it.

Once you enter all the form fields and if all the data is correct, the **Register** button wil be activated and you get into the application.

Register

User *

Please enter a valid username!

Password *

Please enter a valid password!

Email *

Please enter a valid email!

Register

Reset

Log In

Recovering your password

Password Recovery

User *

Email *

Email me

Reset

Log In

In case you register on your app and you aren't been able to remember your password, you can recover it. You just press '**Forgot your password**' link and fill the form. We'll send you an email with a link in which you can change it.

Password recovery Recibidos x



NoReply <phpserverphp@gmail.com>
para mí ▾

🌐 inglés ▾ > español ▾ [Traducir mensaje](#)

Hello, Mayte

Forgot Your Password?

It happens. Click the link below to reset your password.

[Reset password](#)

You're getting this email because you've signed up for email updates.

Change your password

User: *

New password: *

Repeat password: *

Submit

Reset

Once you change your password, the button submit guides you to the **Log in** form, to get again in the application.

Your profile

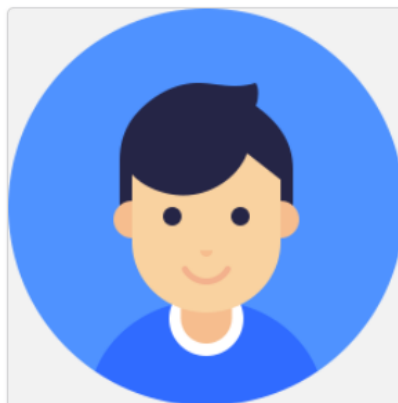
As user of our application you have a **profile** with your data. At the beginning it only appear your name and email that you put when did you register. You can change this data, in the next step we will see how you can do it. When you change the data, it will appear in your user card.

Welcome TEST

Profile

E-mail account

Company users



Test

test@test.com

Last time visit 2019-11-30 09:11:46

Age

Home Address

Hobbies

MODIFY



Mayte

mcalmunoz@gmail.com

Last time visit 2019-11-30 09:11:52

Age 28

Home Address Madrid


Hobbies Listen to music

MODIFY

Updating your profile

To **update** your data on the profile, you just need to press **Modify** button. It will appear a form where you can introduce the different data you want to add. It is no necessary to fill all, you can only upload a photo or just add your age, address or hobbies.

Welcome TEST **Profile** E-mail account Company users



Test
test@test.com
Last time visit
Age
Home Address
Hobbies
MODIFY

About you

Photo Profile Picture

Seleccionar archivo Ningún a...cionado

Age

Introduce your age

Address

Introduce your country/city

Hobbies

Introduce your hobbies





Update profile

Email account

This is the **main** of the application, where you can send and receive mails between the users registered previously in the application.

Messenger Services Welcome GERO Profile **E-mail account** Company users [Log out](#)

Inbox Send Messages

Seen	Avatar	Sender	Title	Sending Time
<input checked="" type="checkbox"/>		Mayte	Trying to attach files	2019-11-30 21:11:19
<input type="checkbox"/>		Gero	Attach file to multiple users	2019-11-30 21:11:21
<input checked="" type="checkbox"/>		Mayte	RE : Hello!	2019-11-30 21:11:23
<input checked="" type="checkbox"/>		Test	Testing multiple messages	2019-11-30 21:11:53

Sender

Title

Body

Download Attachments **Response**

Your Inbox

Here it will appear the **messages** you receive, differentiating between read and unread messages.

When you click on a message, it will appear on the right to read it. If it isn't read, a check will be put marking as seen.

Seen	Avatar	Sender	Title	Sending Time
<input checked="" type="checkbox"/>		Mayte	Trying to attach files	2019-11-30 21:11:19
<input type="checkbox"/>		Gero	Attach file to multiple users	2019-11-30 21:11:21
<input checked="" type="checkbox"/>		Mayte	RE : Hello!	2019-11-30 21:11:23
<input checked="" type="checkbox"/>		Test	Testing multiple messages	2019-11-30 21:11:53

Sender
Mayte

Title
Trying to attach files

Body
Hi!
I saw that we can include files attached to the mails, so I'm trying to see if it is working. I attached a photo of my dog.
I hope you can answer me if you can download the file.
Thanks!

Download Attachments Response

Now, you can response or download the files attached on the message if there's any. If there's a file you can download, it will be saved on your pc; if isn't, a message tells you that there're no files to download.

If you want to response the message, you click on the response button, that will take you to **Send Messages** tab.

Select user/s *

Mayte
Gero
Test

Title *

Hello

Body *

This is a test message.

Select attach file:

Seleccionar archivo Ningún archivo seleccionado

Sending mails

Sending to one user

Here's where you can send messages to the users registered. It will appear a list of the users availables. If you want to send it to one, just select it with the mouse. Then, fill the form with the title, your message and attach a file if you want, it is not necessary, you can send a message without attach file as we said before.

Sending to multiple users

If you want to send the same message to two different people, select the first as before and to select another, push 'CTRL' on the keyboard and then click in the user you want.


Responding a message

If you click on response, you just need to fill the body of the message, the user receiver of the message will be selected already, because you're responding to a message that this user has sent you, and also the title, will be 'RE: *title of the message*'.

Company users

In here you will find different informative cards about the users registered. You can see the data that the different users filled in his/her profile. It's just informative to know better your partners.

[Messenger Services](#) [Welcome GERO](#) [Profile](#) [E-mail account](#) [Company users](#) [Log out](#)




Mayte

mcalmunoz@gmail.com

Age: 28

Address: Madrid

Hobbies: Listen to music



Gero

geroalxander@gmail.com

Age: 21

Address: Madrid

Hobbies: Programming

Logging out

To finish using the mail service, it is as simple as pressing the **Log out** button at the top right of the screen. This will close our session and we will be finished.