Server side development.

Documentation: Message-App

Requirements:

- PHP >= 7.1
- Composer
- XAMPP

Deploy configuration:

1. First you can find the code of the application on GitHub: Message-App. Clone this repo on your machine, if you want to deploy it with XAMPP, you can clone directly on your htdocs folder: C:\xampp\htdocs.
2. For the connection to the database, you need to change the **config.php** on the project with your parameters.

```
// Update the details below with your MySQL details
define('DBUSER', 'root');
define('DBPWD', 'root');
define('DBHOST', 'localhost');
define('DBNAME', 'chatapp');
```

3. To create the database on your local machine you need to run two different scripts, one for the database and the other for inserting some initial data to see on the application. You can find those files in the directory sql on the project.

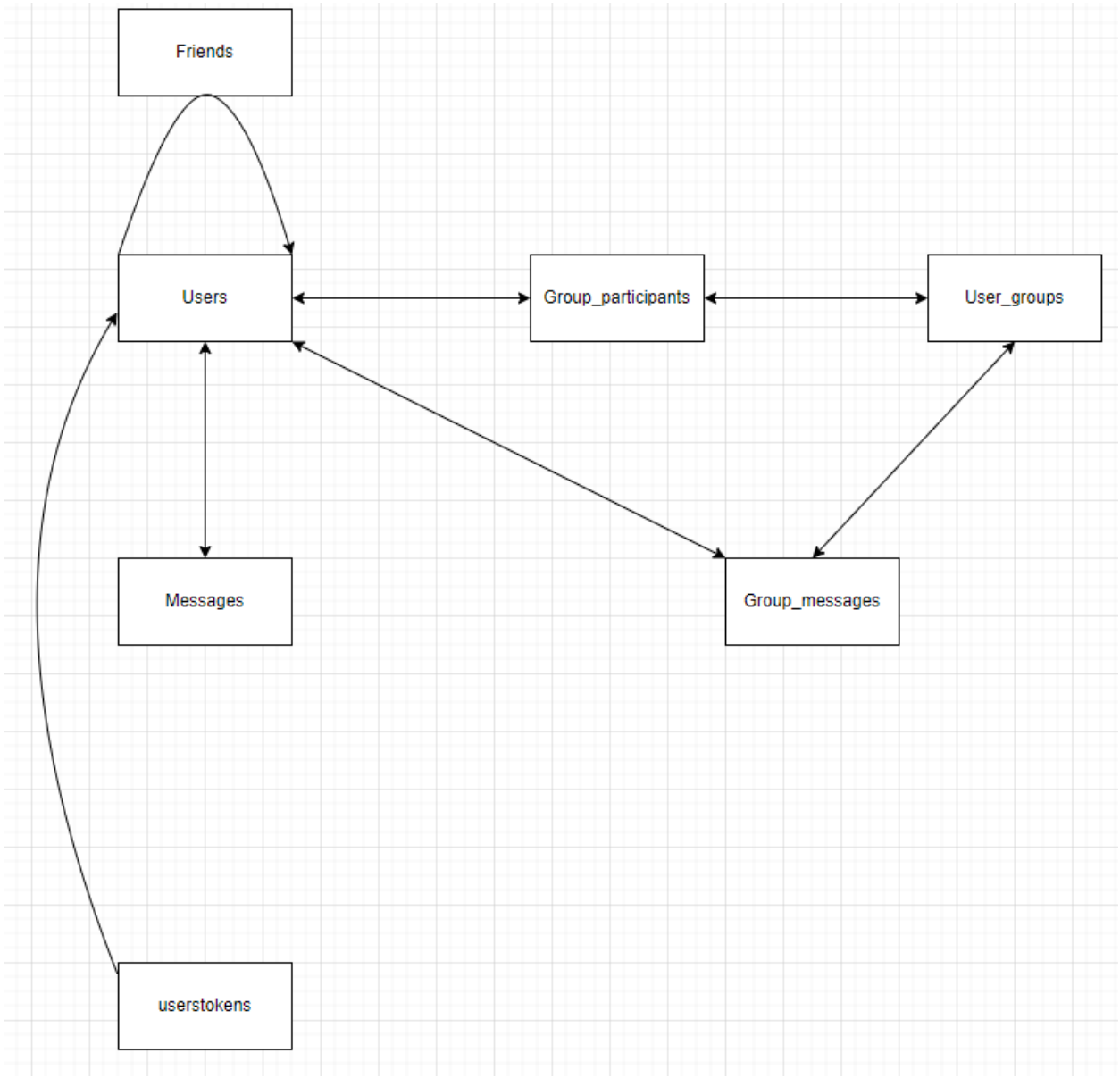
Test credentials:

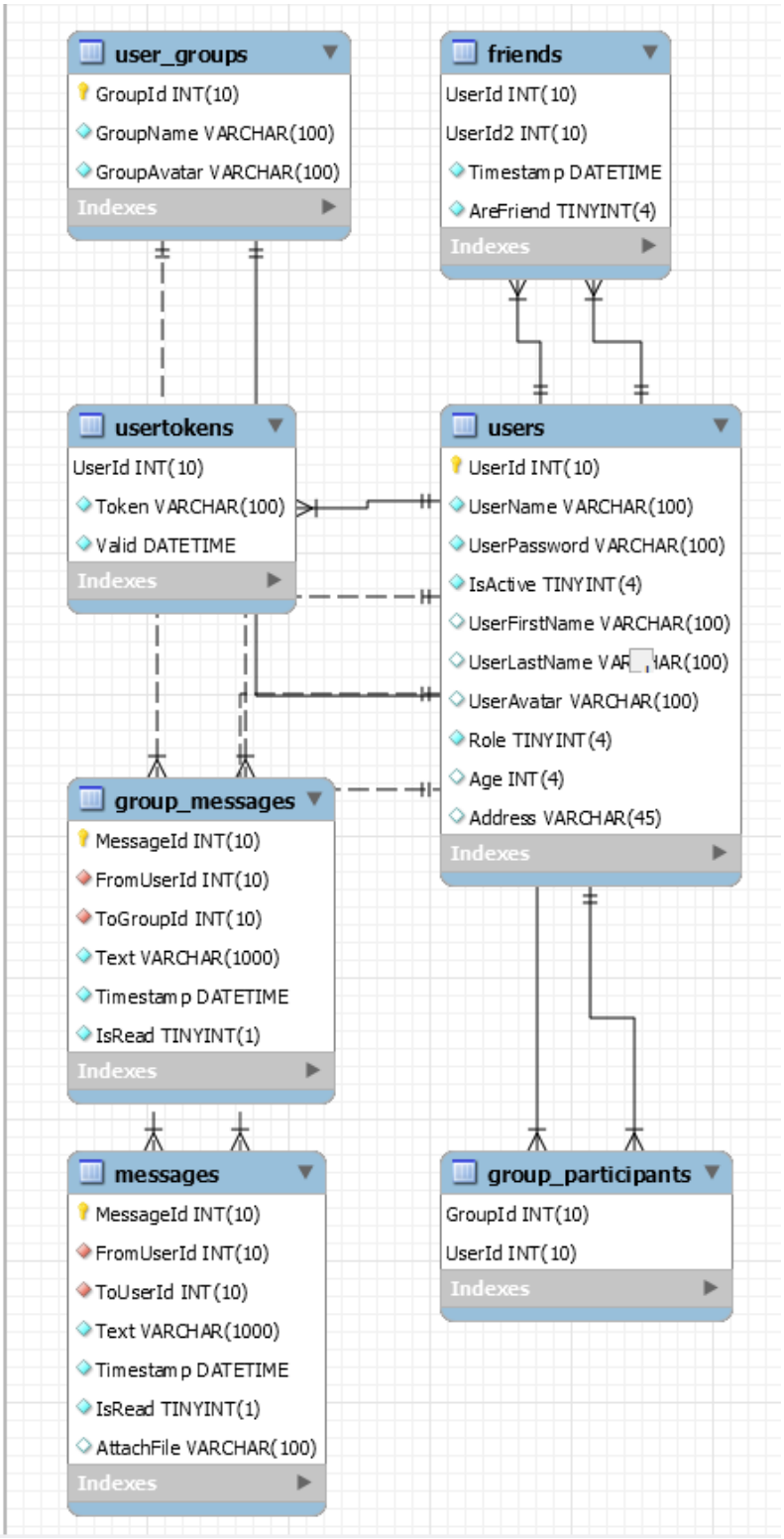
Users :

- Admin: luis@gmail.com
- User: pepe@gmail.com, jhon@gmail.com, alex@gmail.com

Password: 1234

Database schema:

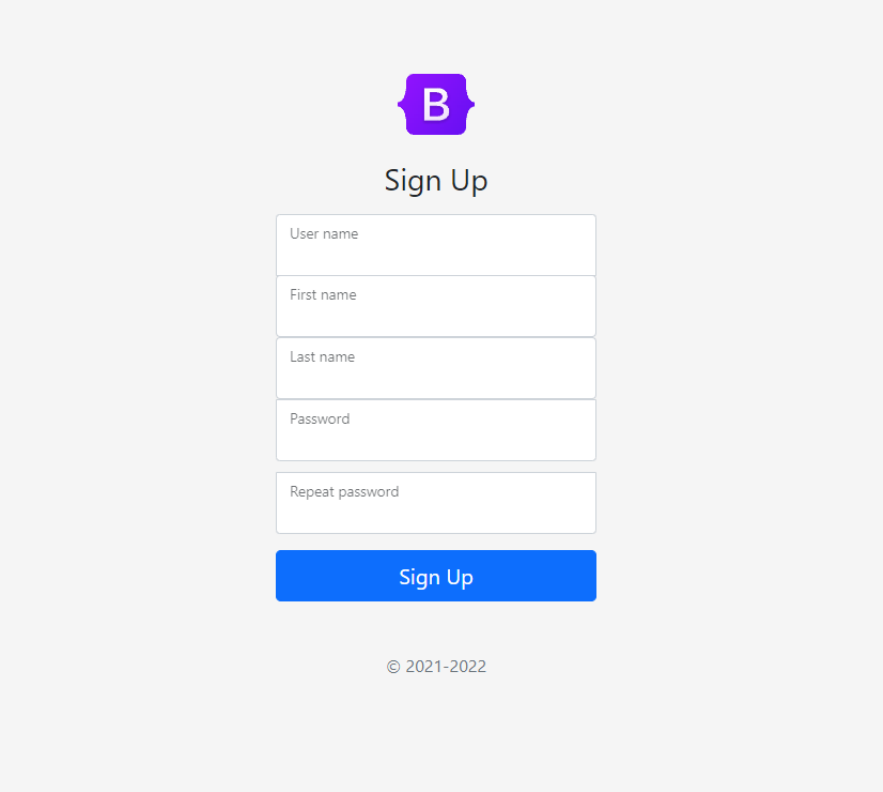



user_groups
GroupId INT(10)
GroupName VARCHAR(100)
GroupAvatar VARCHAR(100)
Indexes
friends
UserId INT(10)
UserId2 INT(10)
Timestamp DATETIME
AreFriend TINYINT(4)
Indexes
usertokens
UserId INT(10)
Token VARCHAR(100)
Valid DATETIME
Indexes
users
UserId INT(10)
UserName VARCHAR(100)
UserPassword VARCHAR(100)
IsActive TINYINT(4)
UserFirstName VARCHAR(100)
UserLastName VAR AR(100)
UserAvatar VARCHAR(100)
Role TINYINT(4)
Age INT(4)
Address VARCHAR(45)
Indexes
group_messages
MessageId INT(10)
FromUserId INT(10)
ToGroupId INT(10)
Text VARCHAR(1000)
Timestamp DATETIME
IsRead TINYINT(1)
Indexes
messages
MessageId INT(10)
FromUserId INT(10)
ToUserId INT(10)
Text VARCHAR(1000)
Timestamp DATETIME
IsRead TINYINT(1)
AttachFile VARCHAR(100)
Indexes
group_participants
GroupId INT(10)
UserId INT(10)
Indexes

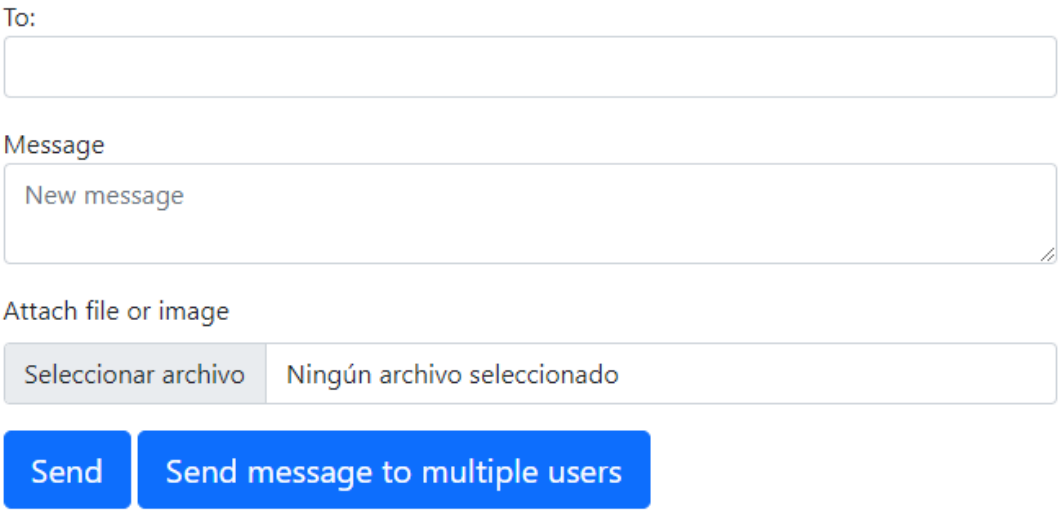
Features implemented:

Basic functionality:

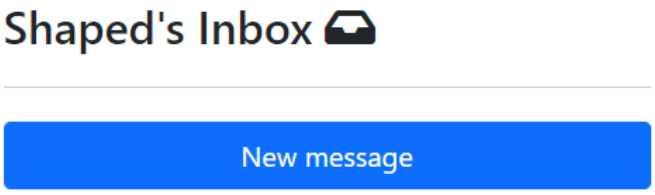
1. Access:

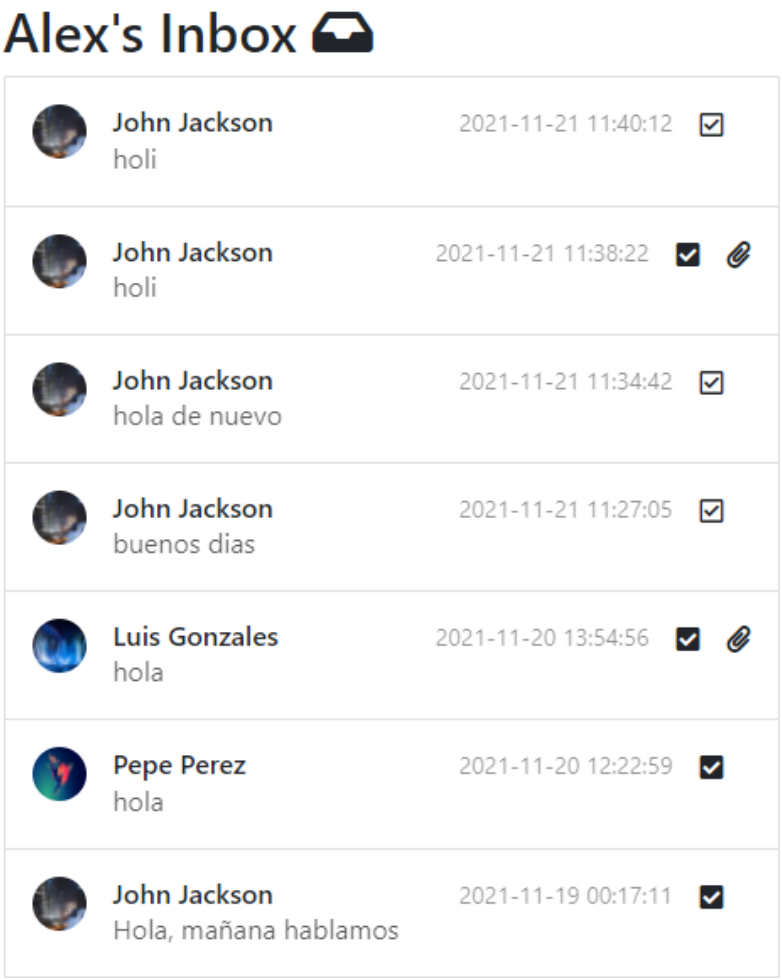


2. Sending:

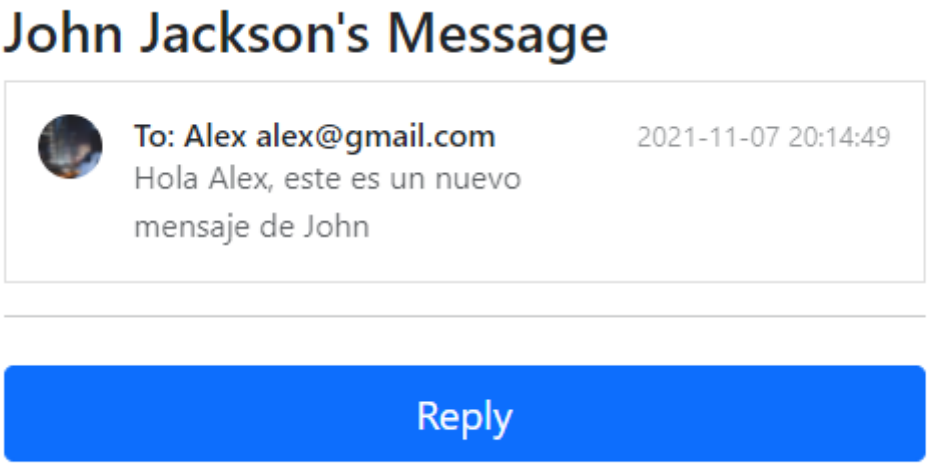


3. Inbox:




Alex's Inbox
John Jackson
holi
2021-11-21 11:40:12
John Jackson
holi
2021-11-21 11:38:22
John Jackson
hola de nuevo
2021-11-21 11:34:42
John Jackson
buenos dias
2021-11-21 11:27:05
Luis Gonzales
hola
2021-11-20 13:54:56
Pepe Perez
hola
2021-11-20 12:22:59
John Jackson
Hola, mañana hablamos
2021-11-19 00:17:11

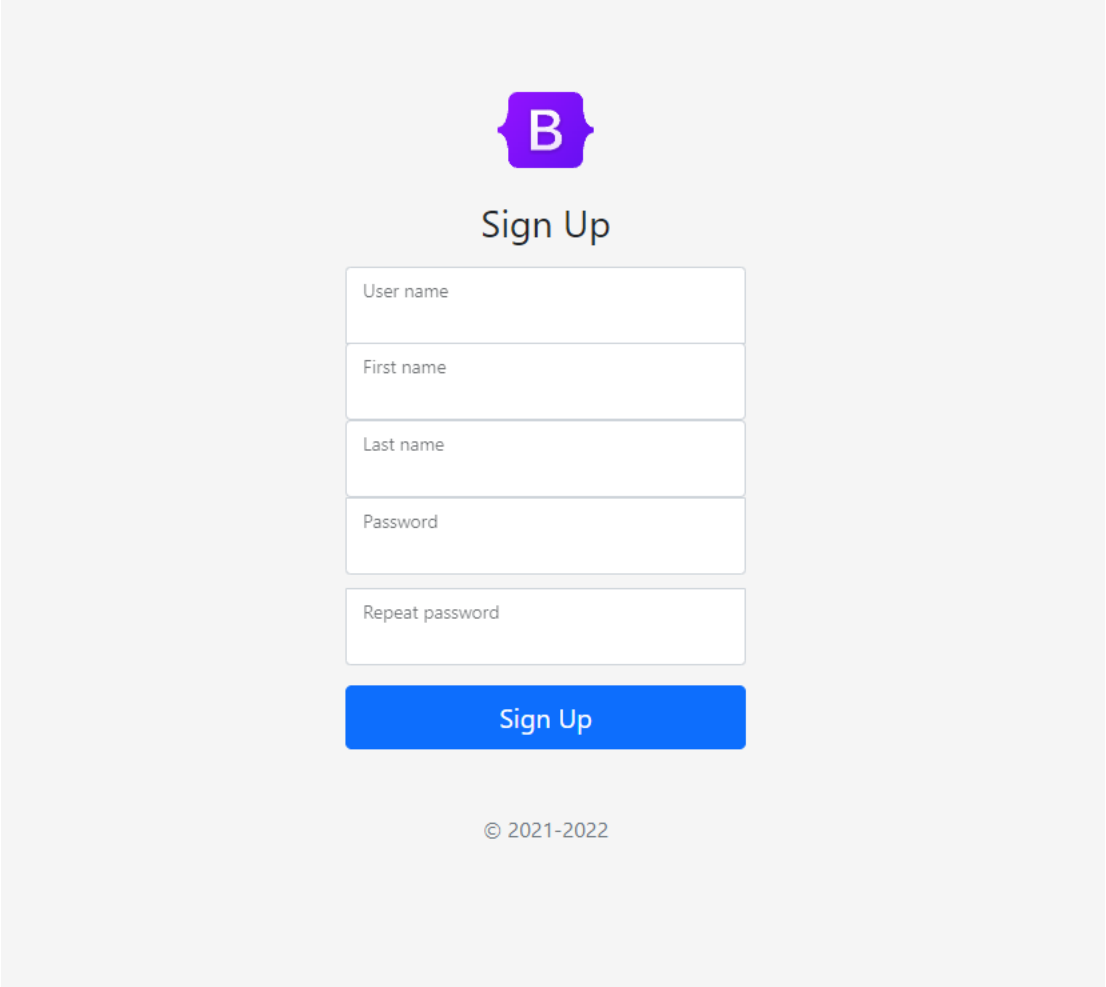
4. Messages:

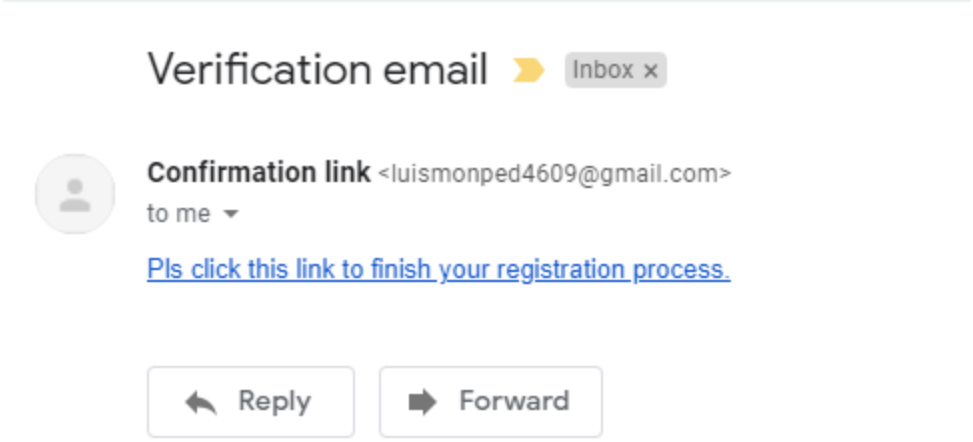

John Jackson's Message
To: Alex alex@gmail.com
2021-11-07 20:14:49
Hola Alex, este es un nuevo mensaje de John
Reply

Extensions

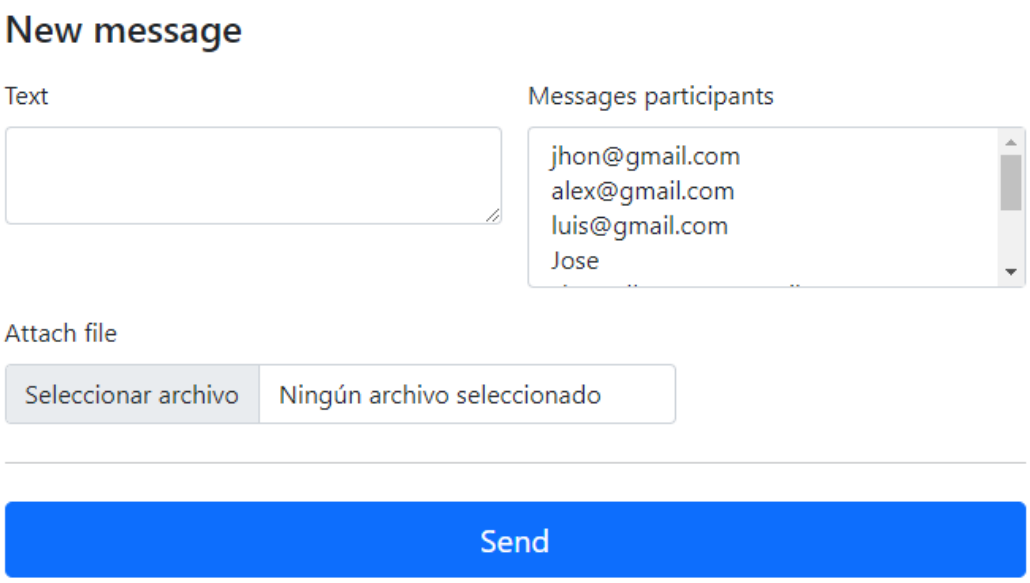
ENLARGEMENT	MADE (Y / N)
A1	Y
A2	N
A3	Y
A4	Y
A5	Y
A6	Y
A7	Y
A8	Y
A9	Y
A10	Y
A11	Y
A12	N
A13	Y
A14	Y

Self-registration A1:





Messages to multiple recipients A3:



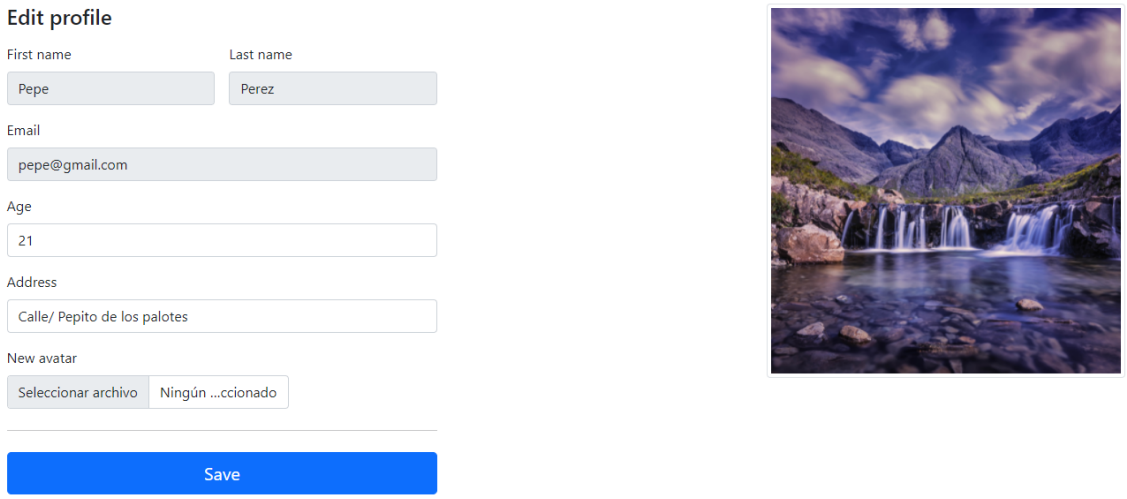
Encrypted password A4:

```php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
  //information of the new user sent from register form
  $myusername =  $_POST['username'];
  $mypassword = password_hash($_POST["password"], PASSWORD_DEFAULT);
  $myuserFirstName =  $_POST['firstname'];
  $myuserLastName =  $_POST['lastname'];
```

```php
  //Verify the hashed password
  if (password_verify($_POST["password"], $result['UserPassword'])) {
    //Get the user role
    if ($result['Role'] == 0) {
      $_SESSION["userrole"] = USERROLE;
      header('location: index.php?page=home');
    } else {
      $_SESSION["userrole"] = ADMINROLE;
      header('location: index.php?page=admin-zone');
    }
```

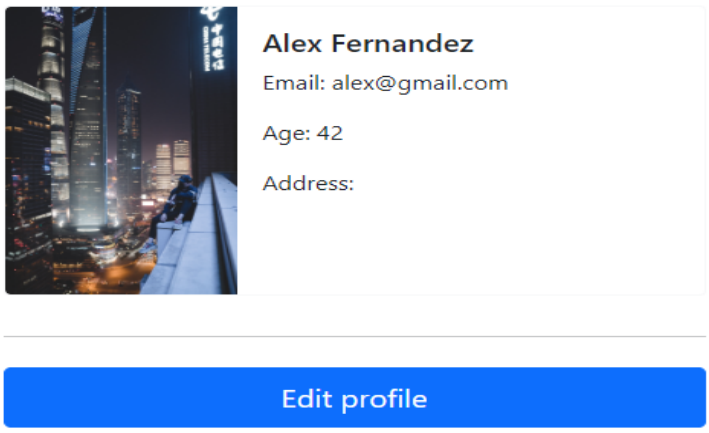
User avatar A5:

- Upload an image and update it:

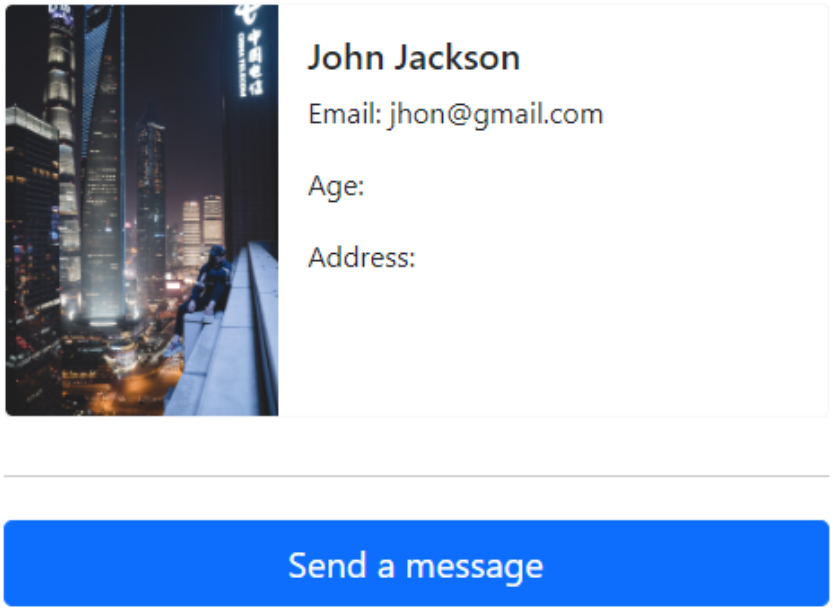


User profile A6:

- The user can see his profile:



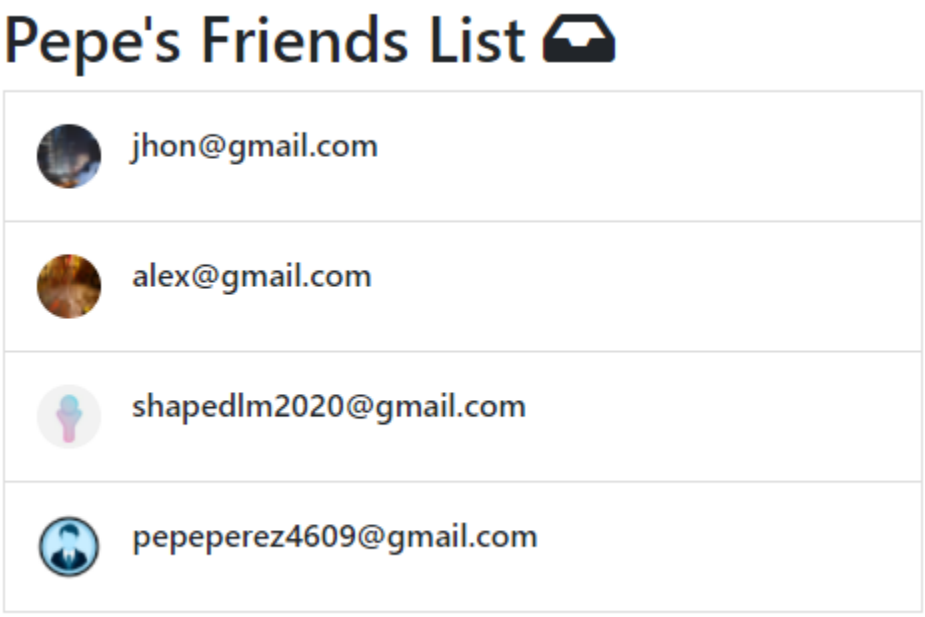
- Your friends can check your profile:

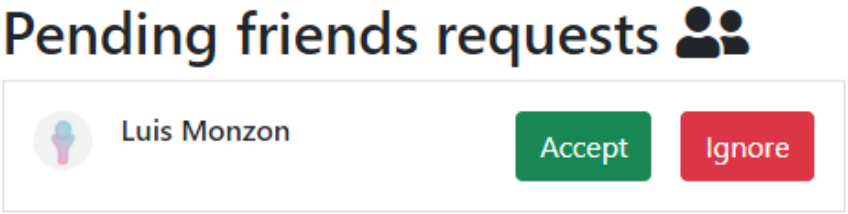


Friendship A7:

- Send a friend request:

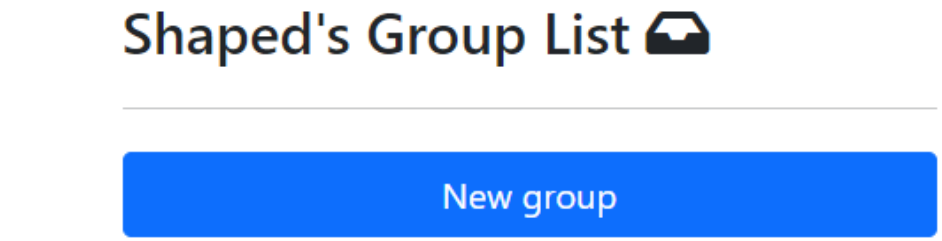
- Checking your friend list

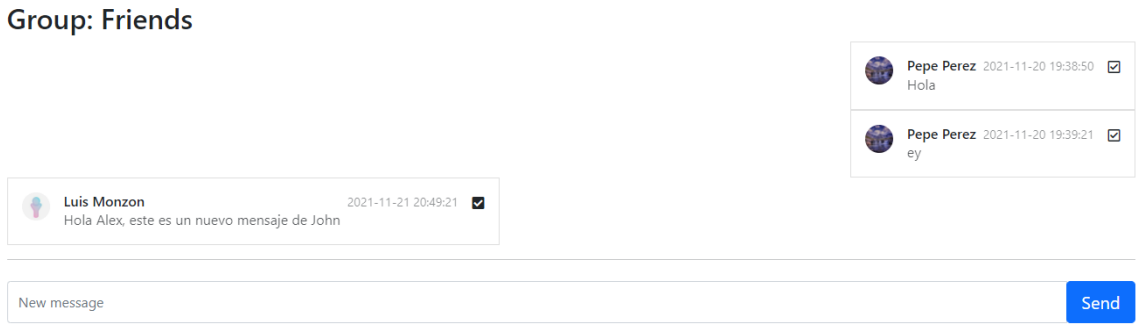


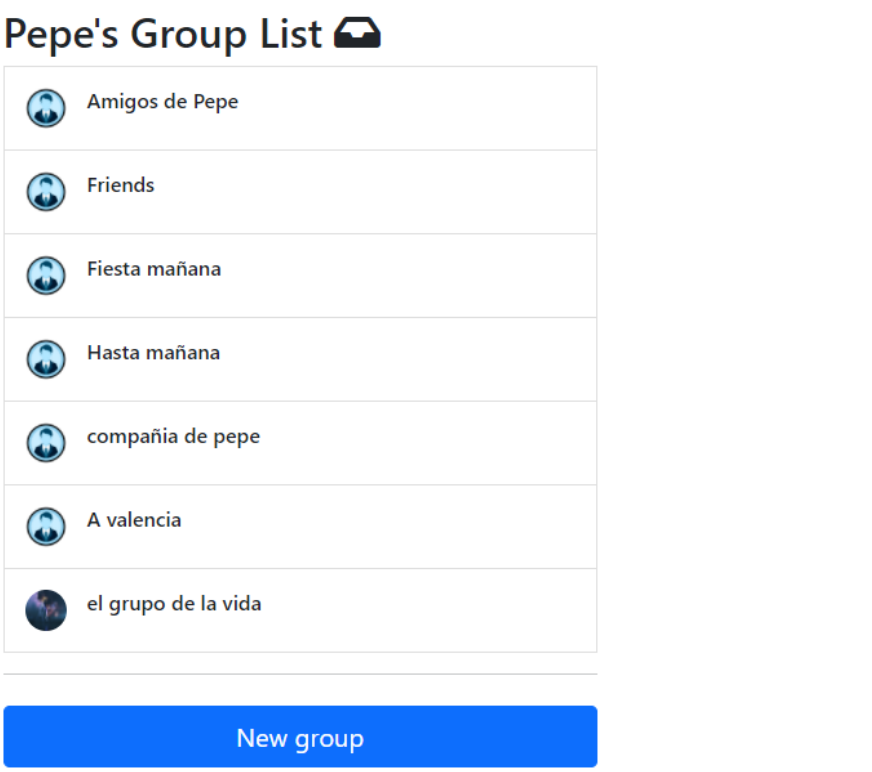


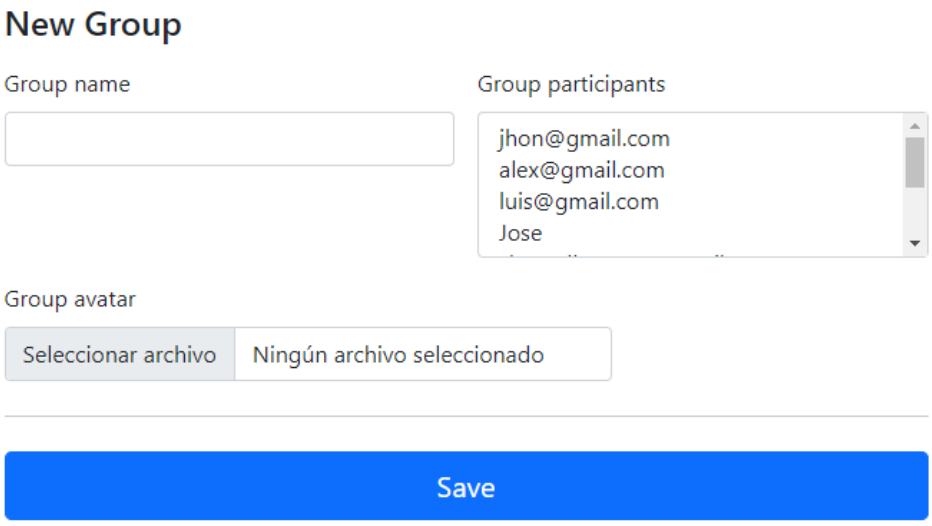
Groups A8:

- Allow the creation of groups that are collections of user names. When you send a message to one of these groups, it is sent to each of the users.



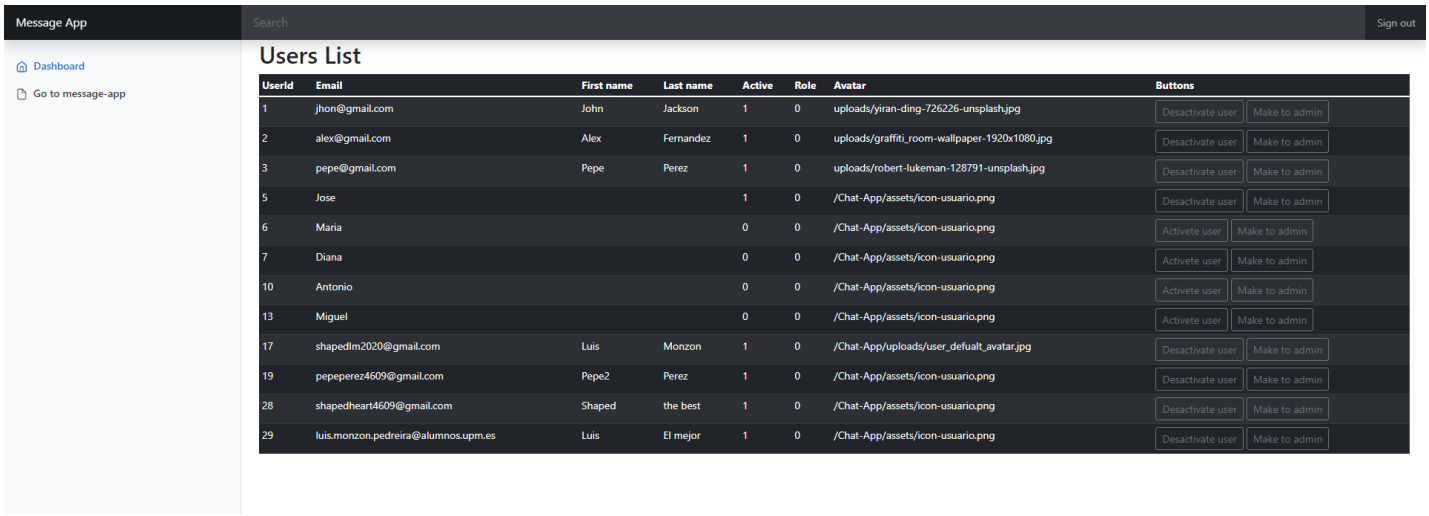


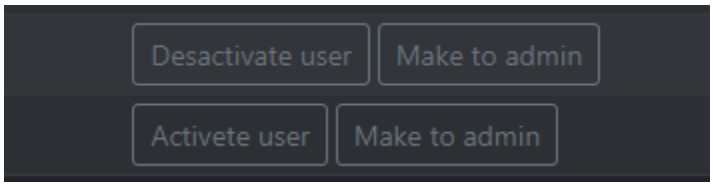

Pepe's Group List
Amigos de Pepe
Friends
Fiesta mañana
Hasta mañana
compañia de pepe
A valencia
el grupo de la vida
New group


New Group
Group name
Group participants
jhon@gmail.com
alex@gmail.com
luis@gmail.com
Jose
Group avatar
Seleccionar archivo
Ningún archivo seleccionado
Save

Administration zone A9:

```php
//Verify user role
if (!is_user_in_role(ADMINROLE)) {
  //Error
  $errorMessage = "Unauthorized";
  template_error('Error', $errorMessage);
}       You, seconds ago • Uncommitted changes
```



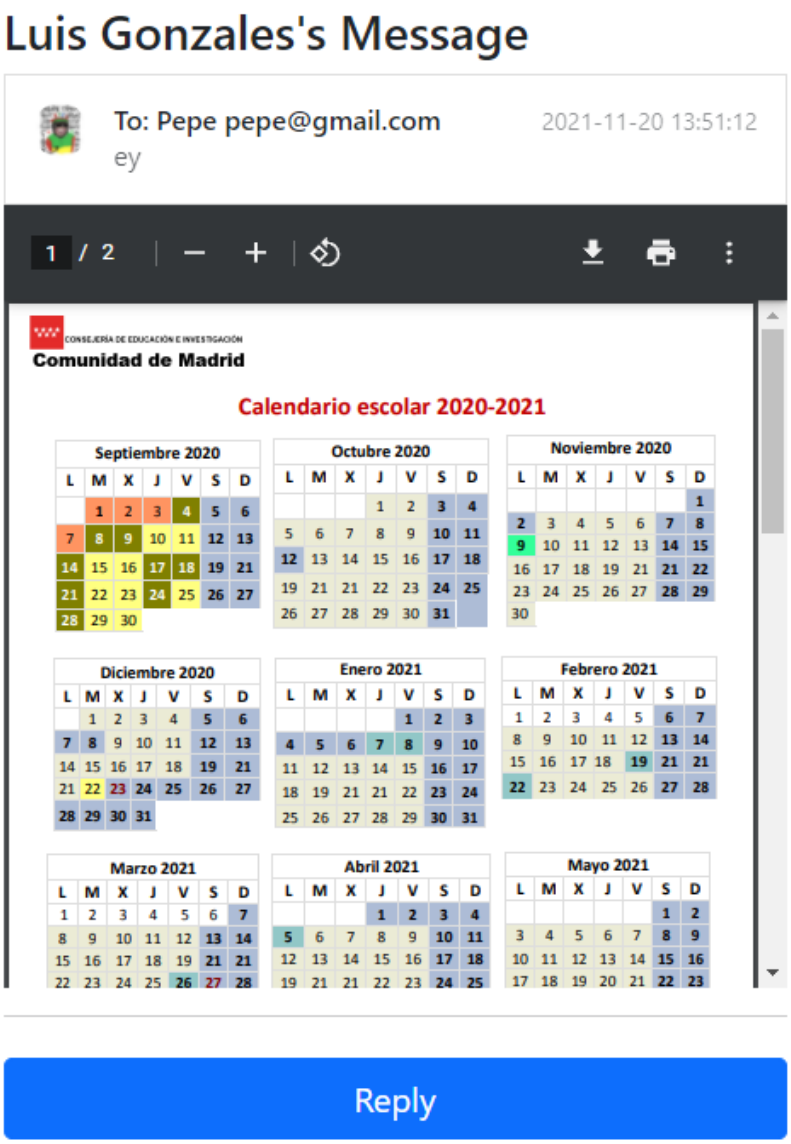


Attach files A10:

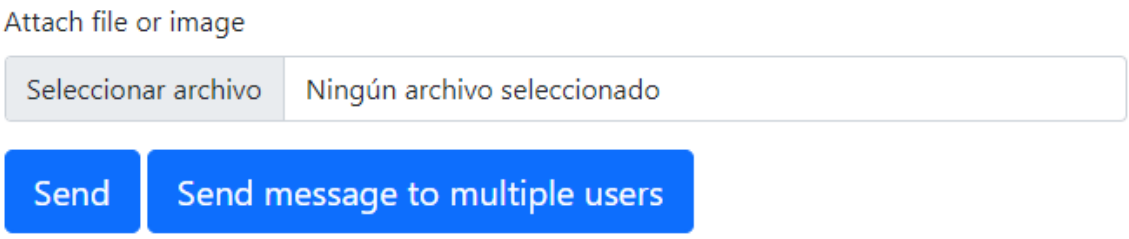
Attach file or image

Seleccionar archivo | Ningún archivo seleccionado

Send | Send message to multiple users



Images A11:




```php
<!--Logic for show the attach file or image-->
<?php if ($message['AttachFile'] == null) {
    $isAttached = "";
    $isDisplayedImg = "d-none";
    $isDisplayedFile = "d-none";
} else {
    $extension = substr($message['AttachFile'], -3, 3);
    $isAttached = $message['AttachFile'];
    if (
        $extension == "jpg" || $extension == "png" || $extension == "jpeg"
        || $extension == "gif"
    ) {
        $isDisplayedImg = "";
        $isDisplayedFile = "d-none";
    } else {
        $isDisplayedFile = "";
        $isDisplayedImg = "d-none";
    }       You, seconds ago • Uncommitted changes
} ?>
```

Alex Fernandez's Message

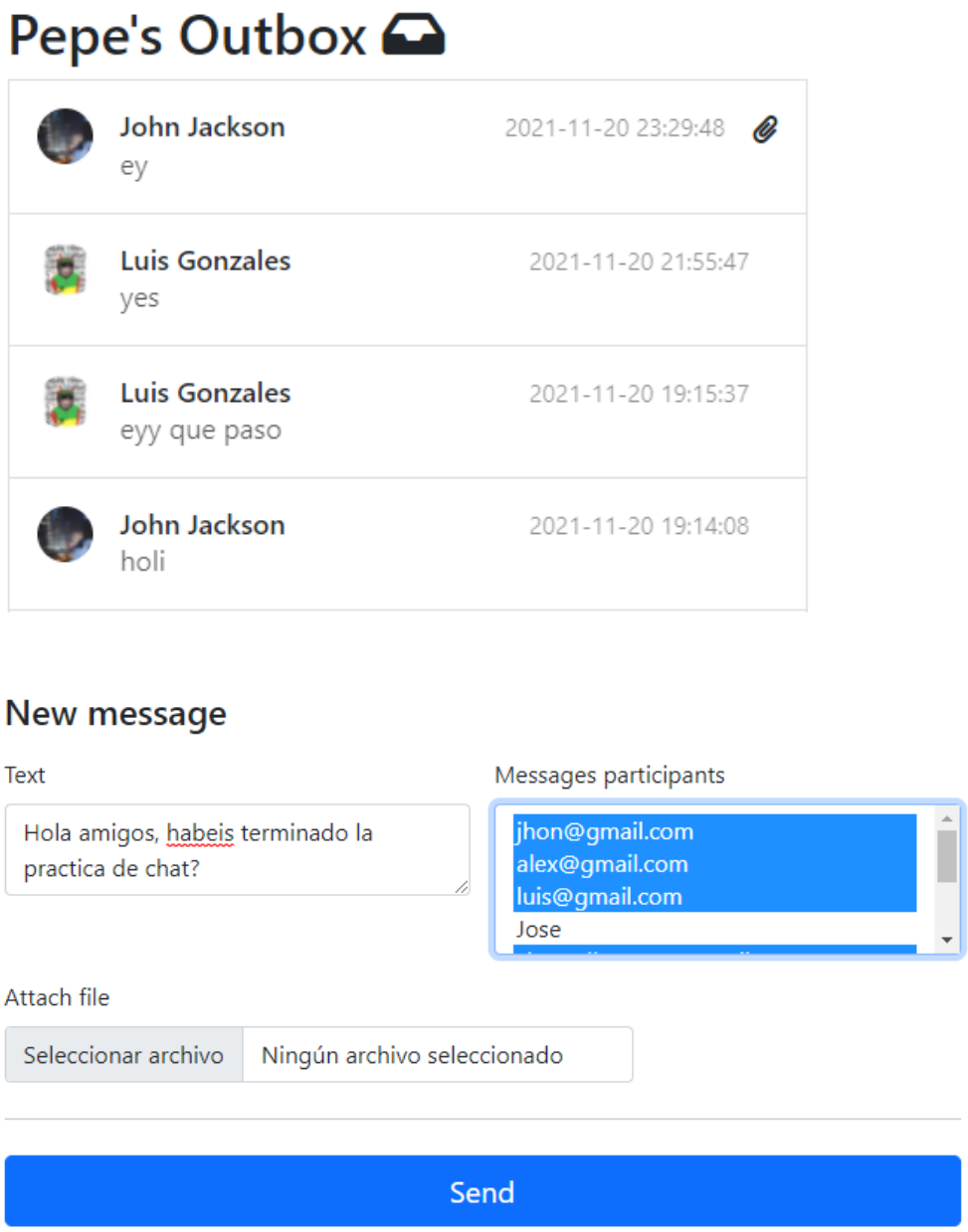
To: Pepe pepe@gmail.com 2021-11-21 23:24:19

Hola Pepe, te estoy hablando para saber de ti

Reply

Outbox A13:

The list of the messages shown in the outbox are ordered by the date.



Pepe's Outbox

John Jackson 2021-11-25 11:36:43
Hola amigos, habeis terminado la practica de chat?

Alex Fernandez 2021-11-25 11:36:43
Hola amigos, habeis terminado la practica de chat?

Luis Gonzales 2021-11-25 11:36:43
Hola amigos, habeis terminado la practica de chat?

Luis Monzon 2021-11-25 11:36:43
Hola amigos, habeis terminado la practica de chat?