



Protecting Sensitive Information


User Manual

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0100

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CONTROL SHEET

Project	Protecting Sensitive Information		
Entregable	User Manual		
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1. SYSTEM DESCRIPTION

1.1 Objective

Make sensitive documents be digital and share these documents signed by the sender and share with the members of the board using cryptographic primitives without any third-party involved in the process.

1.2 Scope

Through a web page cipher and decipher documents of the board and send them to the chosen receiver(s) using cryptographic primitives

1.3 Funcionalidad

Using our web page, the user can have his own account where he needs to log in with the given credentials, once the user is inside the system he have two options, cipher a pdf document or decipher a bin document.



2 SYSTEM MAP

2.1 Logic Model

The next figure shows how is the logic inside the system.

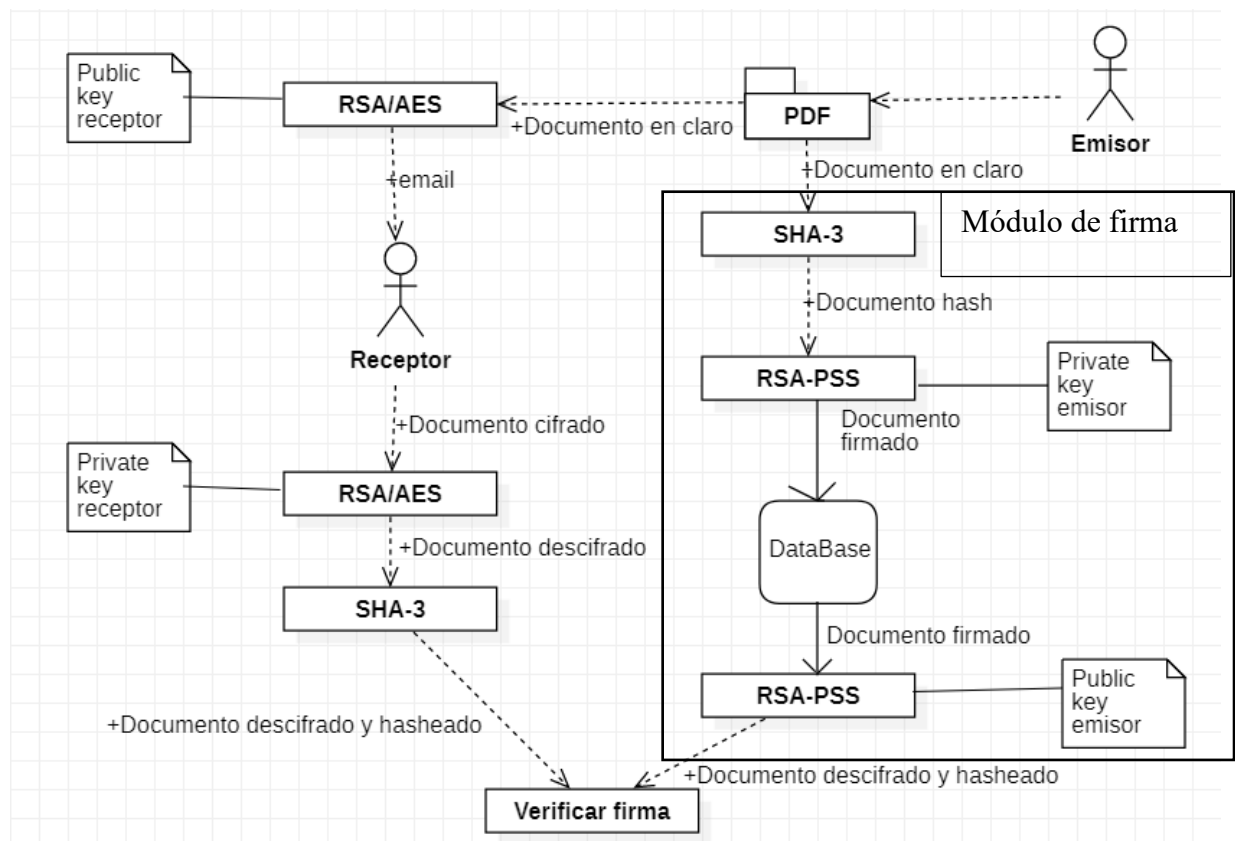



Figure 1. Architecture

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3 SYSTEM DESCRIPTION

In this section we describe the different pages in the system, and which can be the different errors that can happen while the user interacts with the system.

3.1 Log in

The first contact with the system is the log in page, where the user needs to introduce his credentials to have access to the rest of the system.

3.1.1 Screen 1



Figure 2. Log in

3.1.2 Error Messages

The first error that can appear is when the user leaves the user and the password frame empty.

To solved it is necessary to have a valid username and a password and put it in the correct space in the page.

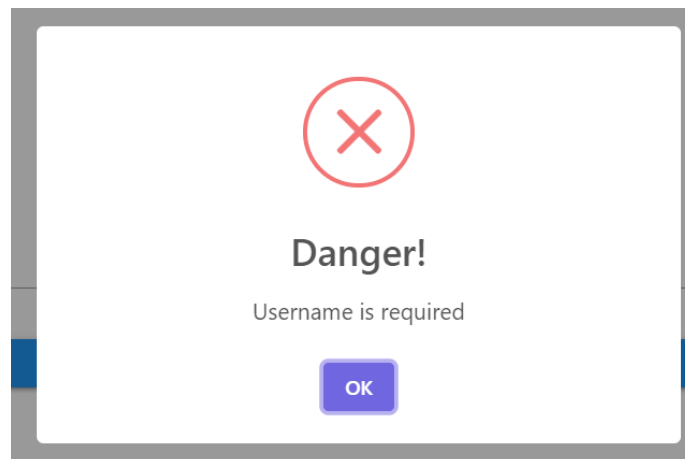



Figure 3. Username is required error

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The other possible error that can appear is when the username is not in the database or the credentials are incorrect. To solve it is necessary to have a valid username and password.

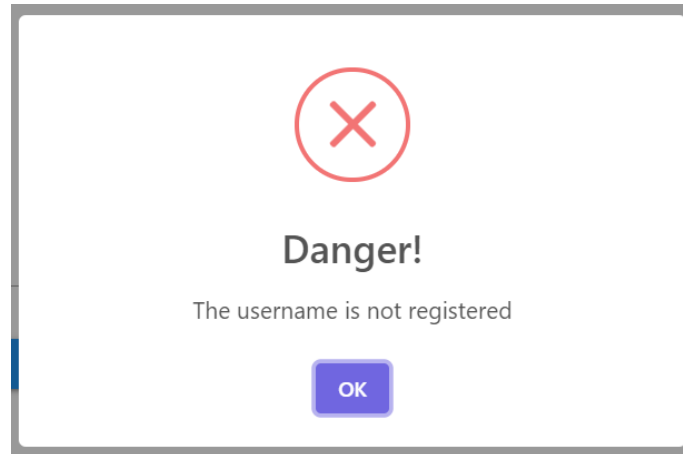


Figure 4. Username is not registered

3.1.3 Messages

Once you use the correct credentials the log in page redirects the user to de main page and shows the next message.

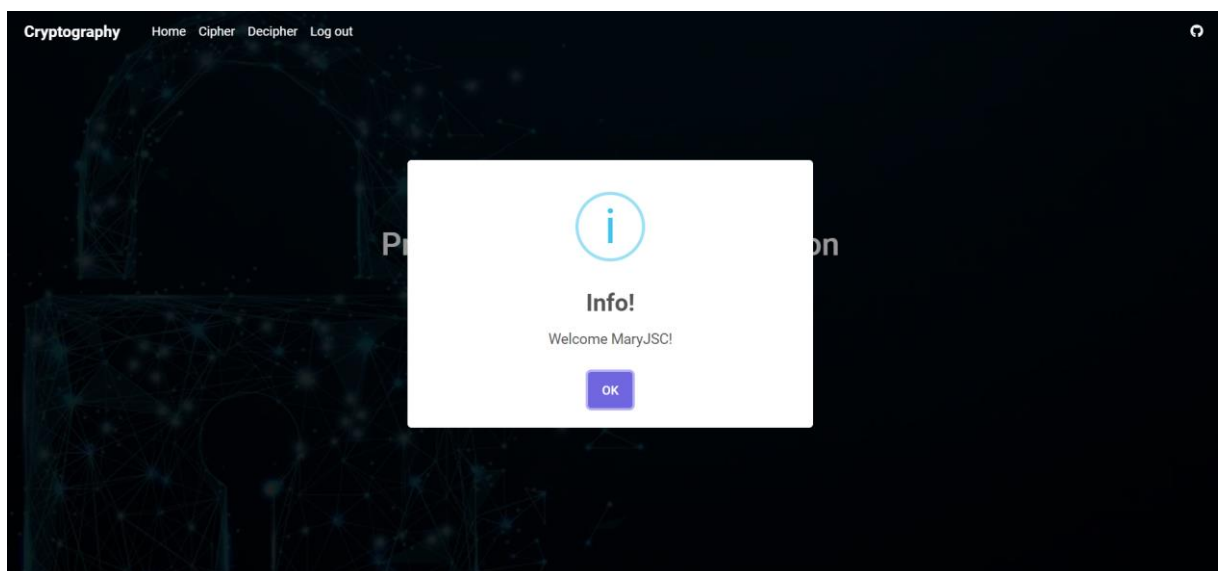

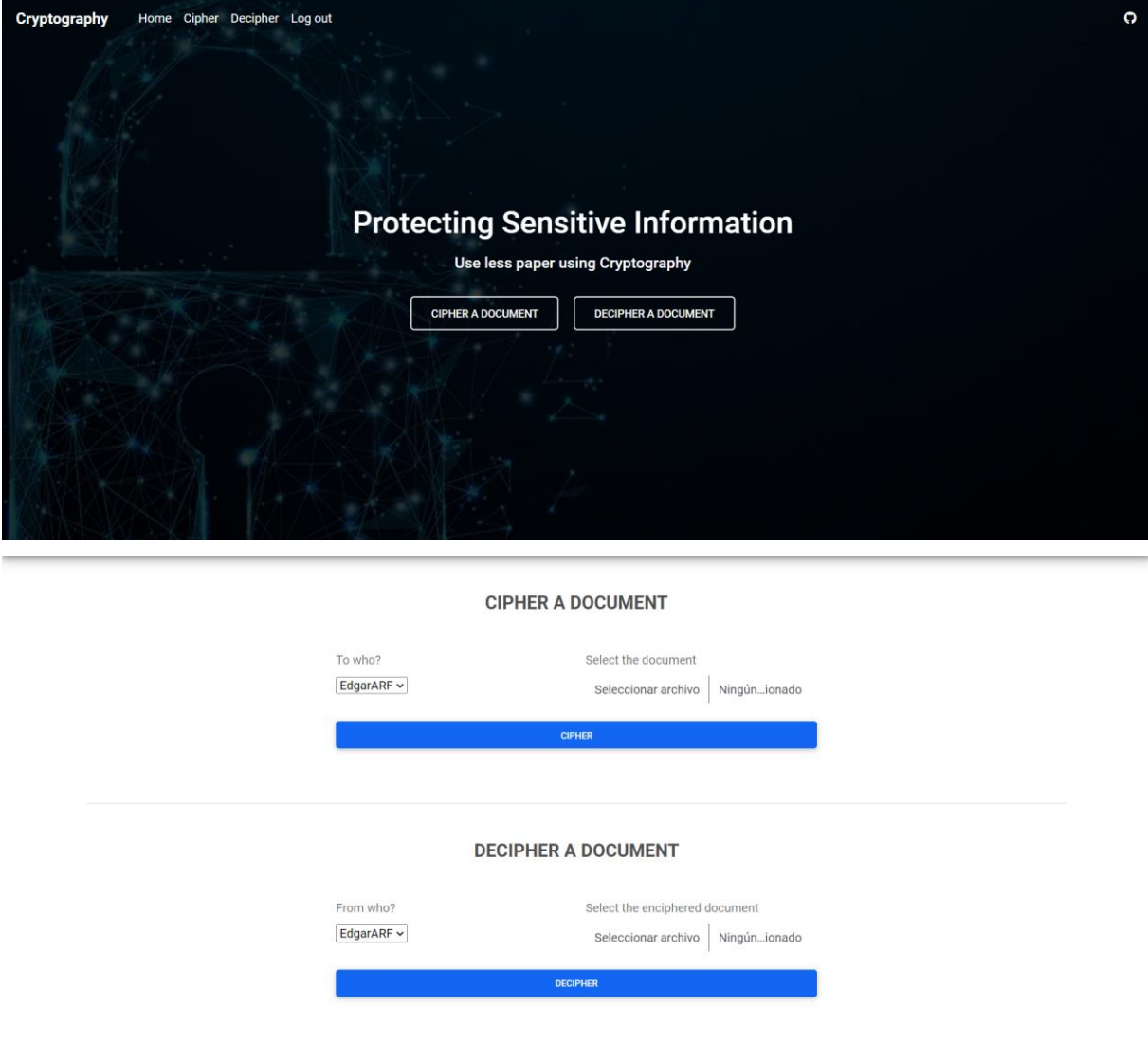


Figure 4. Success Message

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3.2 Main Page



CIPHER A DOCUMENT

To who?

EdgarARF ▾

Select the document

Seleccionar archivo | Ningún...ionado

CIPHER

DECIPHER A DOCUMENT

From who?

EdgarARF ▾

Select the enciphered document

Seleccionar archivo | Ningún...ionado

DECIPHER

Figure 5. Main page

3.2.1 Error Messages

The most common error messages that can be shown by the system are when the user doesn't select a pdf file for the encryption or a bin file for the decryption, or the user doesn't select a document, or the name of the document selected doesn't match with the business rule about that the name file can only have letters, underscores, middle dashes or numbers. To solve this is simple as select a pdf file or a bin file.

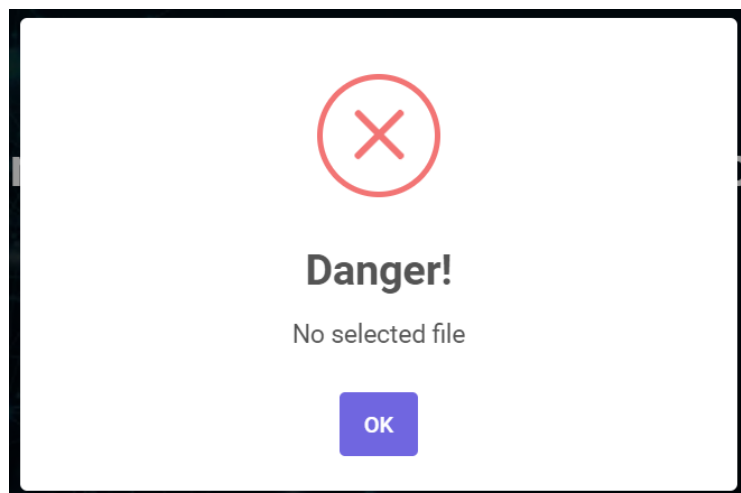


Figure 6. No selected file error

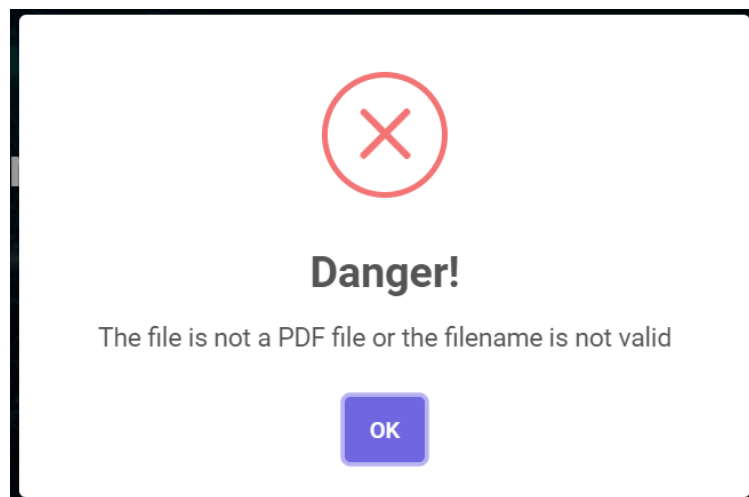


Figure 7. Not a PDF file or filename not valid error

In the decryption part another error that can be shown is when the signature is not valid, or when something in the process went wrong. To solve it is necessary to check that the sender is the correct as the selection in the system and check that the bin document matches with the sender choice.

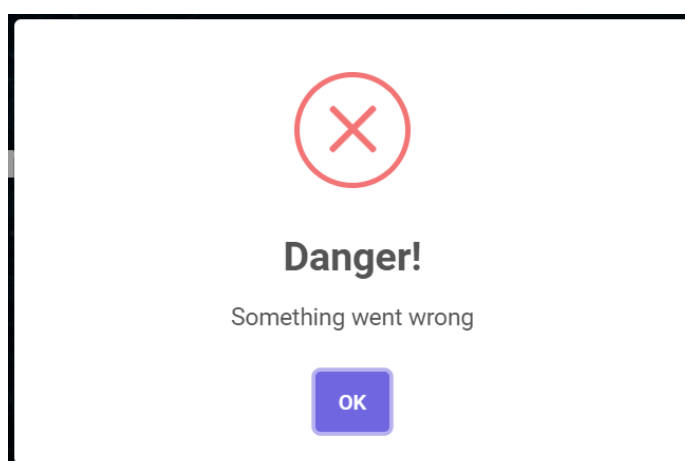



Figure 8. Something went wrong error

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3.2.2 Messages

In the encryption part, once the receiver is selected and the pdf document is charged to the system shows the next message.

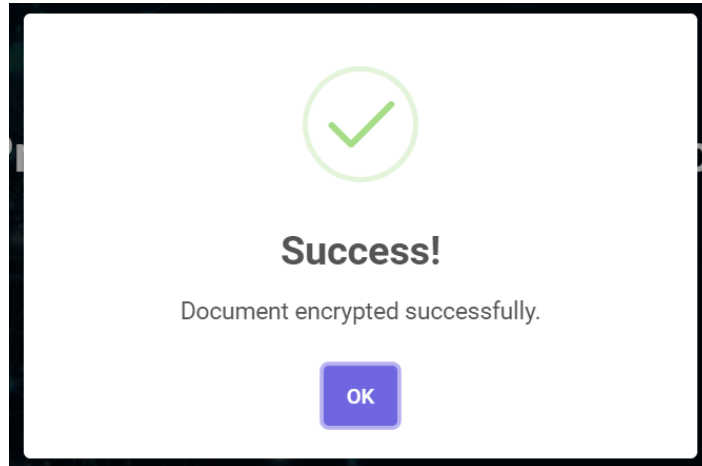



Figure 9. Document encrypted successfully

For the decryption part, once the sender is selected, the bin file is charged to the system and everything in the decryption process went well, the system downloads the decipher document.

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4 BIBLIOGRAPHY

- C. Paar and J. Pelzl, *Understanding Cryptography*, 1st edition, Springer, 2010