IEDIB. Microtasca GS_0376 4.1.

**Server side programming : PHP II**

Scenario: same scenario than Microtasca GS_0376 3.1.

0. Develop your code in standard HTML5 and PHP7

(2.5p)A. Exception management

1. Download the currencyConvertedForm.php file

2. Add the coding needed into *convert_euros_into_pounds* function to convert euros into pounds.

3. Add Exception management in that function for when user type a rate exchange = 0

4. Catch the exception and show the exception message and code in the screen

5. Add a text area control in the form where showing an explanation for the user about the error that happened. For instance: "The exchange rate has to be greater than 0. Try again, please.

6. The result of the convertion calculated has to be shown in the input text named *amount_in_pounds*

An example of what is expected is shown below:
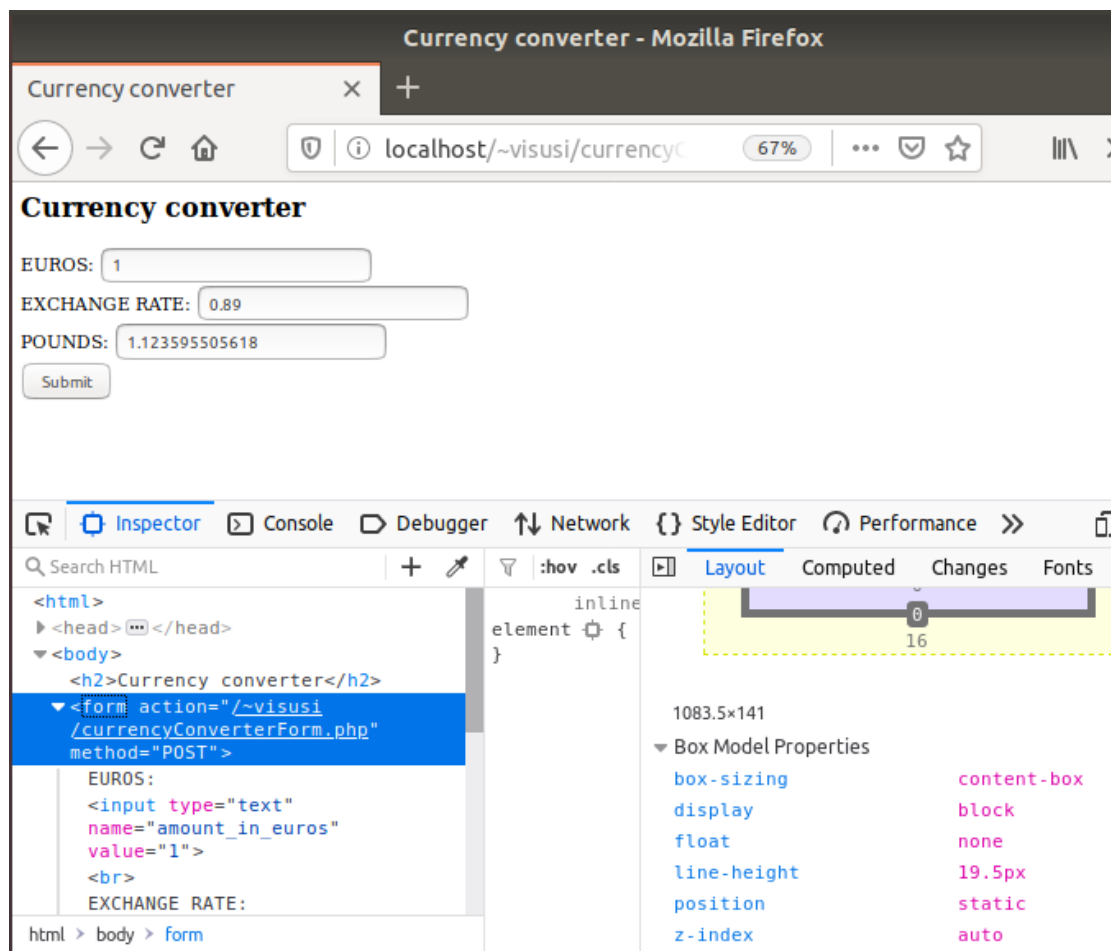
Tip: press tye F12 key in the keyboard to open the inspector and troubleshoot som possible errors

(2.5p)B. Cookies management:

7. Download the registrationForm_Cookies.php

8. Add the coding needed to set cookies as follows:

    1. cookie name: user

    2. cookie value: firstname value plus lastname value separated by a space

    3. cookie expire time is: 24 hours

9. Add the coding needed to show in the screen (web page)

    1. the name, value and expire time of the cookie in case the cookie is set

    2. and the message "cookie is not set" when the cookie hasn't been set yet.

(2.5p)C. Session variables management:

10.Download the registrationForm_Session.php file

11. Add the coding needed to set a session variables as follows:

    1. session variable name user with the value typed in the user input text

    2. session variable name password with the value typed in the pass input text

12.Add the coding needed to show in the screen (web page)

    1. the name and value of the two session variables in case those vars are set.

    2. and the message "session vars are not set" when those vars haven't been set yet.

13. Develop a function called *remove_destroy_session* and implement the code to

    1. remove all session variables. Tip:

    2. destroy all session variables

14. After coding the question 6.1, call the function *remove_destroy_session*

(2.5p)D. Data encryption with PHP:

(0.75p)15. A*dd the needed code to dataEncryption.php file to*

    1. encrypt the following password = IEDIB_GS0376

    *2. u*sing the function PHP *hash* with the algorithm *sha256,*

    3. show the encrypted result in the screen

(0.75p)16. A*dd the needed code to dataEncryption.php file to*

    1. encrypt the provided file *proves_data_encryption.odt*

    2. using the function PHP *hash_file* with the algorithm *sha1,*

    3. show the encrypted result in the screen

(0.33p)17. Write the code you need to

    1. extract the public key form a certificate saved in *$certificate* variable

    2. save the public key content in the variable *$publicKey*

(0.33p)18. Write the code you need to

      1. extract the private key form a certificate saved in *$certificate* variable

      2. save the private key content in the variable *$privateKey*

(0.33p)19. Write the code you need to

      1. Extract de identification from a certificate file, supplied by x509certdata, saved in the variable *$certificateFile*

      2. Save that id content in the variable *$certificateId*

Information and data to send in the task delivery:

20. Coding files:

(compulsory) 1. currencyConvertedForm.php with your code

(compulsory) 2. registrationForm_Cookies.php with your code

(compulsory) 3. registrationForm_Session.php with your code

(compulsory) 4. dataEncryption.php with your code

21. Screen captures of: (pdf)

(Compulsory) 1. Your Currency converter exercise working in your browser pointing to your web

(must be congruent / match the currencyConvertedForm.php code)

(Compulsory) 2. Your Cookies exercise working in your browser pointing to your web

(must be congruent / match the registrationForm_Cookies.php code)

(Compulsory) 3. Your Session exercise working in your browser pointing to your web

(must be congruent / match the registrationForm_Session.php code)

(Compulsory) 4. Your Data encryption exercise (15 & 16 items) working in your browser pointing to your web

(must be congruent / match the dataEncryption.php code)

Tip: Apache web server must be up and running.