

Practical Lab 5

Student ID: _____

Student Name: _____

Q1. Test the following html and php codes, to write an input into a txt file if the same input does not exist in the file:

1. Create an empty txt file named: database.txt, set the permission as 777
2. Copy and paste the below code to create a HTML file and a php file, such as client.html and server.php, permission as 755
3. Go to titan.csit.rmit.edu.au/~sXXXXXXXX/client.html

client.html

```
<html>
<body>

<h2>Lab 5</h2>

<form action="server.php" method="POST">

Enter: <input type="text" name="enter" id="enter">
<br/><br/>

<button type="submit">Submit to register</button>
</form>

</body>
</html>
```

server.php

```
<html>
<body>

<?php

    //Receive input from clint side
    $input = $_POST['enter'];

    //check if the input exist
    $exist = 0;

    //read the file line by line
    foreach(file('database.txt') as $line) {
        //compare the content of the input and the line
        if($line == $input."\n"){
            $exist = 1;
            break;
        }
    }

    if($exist == 1){
        echo "The input is exist! <br/><br/>Please enter another one via <a
href='client.html'>client.html</a>";
    }else{
        //open a file named "database.txt"
```

```

        $file = fopen("database.txt","a");
        //insert this input (plus a newline) into the database.txt
        fwrite($file,$input."\n");
        //close the "$file"
        fclose($file);
        echo "The input is added to the database.txt. <br/><br/>Please try
to enter the same input again via <a href='client.html'>client.html</a>";
    }
?>

</body>
</html>

```

Q2. Test the following php codes, to break a string into an array based on a separator “,”:

```

<html>
<body>

    <?php
    //define a string
    $string = "one,two";
    //break the string based on a separator "," as two parts $a and $b
    list($a, $b) = explode(",",$string);
    //print $a
    echo $a;
    echo "<br/>";
    //print $b
    echo $b;

    ?>

</body>
</html>

```

Think: How to break a string based on a separator? Details can be found in [here](#)
 How to compare each of them?

Q3. Based on Q1, Q2 and previous Labs, write `register.html`, `register.php`, `login.html`, `login.php` and `users.txt` to achieve the following:

Expected outcome of Q3 looks like titan.csit.rmit.edu.au/~e23700/Lab5/

Register, try:

1. Click `register.html`
2. Go back to check `users.txt`.
3. Go to `register.html` and try to register the same username

Login, try:

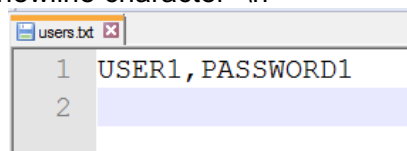
1. Click `login.html`
2. Enter the correct username and password
3. Enter the incorrect username or password

According to above pages, write your own pages.

Step 1. Write `register.html`, enter the username and password, such as "USER1" and "PASSWORD1", click "submit to register" button, the form will be posted to "register.php"

Step 2. Write `register.php` to receive information from `register.html`, and write the username and password to the `users.txt` file. Please Note: you have to verify if a user with the same username exists in the `users.txt` already.

Case 1: no exist user with the same username, username and password will be added to the `users.txt` file, with a separator ",", and a newline character "\n"



```
users.txt
1 USER1, PASSWORD1
2
```

Case 2: an exist user with a same username, the user will not be added to the file

Step 3. Write `login.html` (similar with `register.html`), enter the username and password, click "submit to login" button, the form will be posted to "login.php"

Step 4. Write `login.php` to receive information from `login.html`, and compare the username and password.

Hint:

1. receive user entered username and password
2. open `users.txt` file, read line by line
3. break each line with the separator ",", as two parts
4. compare username and password (Please note: each line contains a newline character "\n")
5. return result (login successful or failure)

Answer of Q3:

register.html

```
<html>
<body>

<h2>Lab 5 Register</h2>

<form action="register.php" method="POST">

Username: <input type="text" name="username" id="username">
<br/><br/>
Password: <input type="password" name="password" id="password">
<br/><br/>
<button type="submit">Submit to register</button>
</form>

</body>
</html>
```

register.php

```
<html>
<body>

<?php

//Receive username from client side
$entered_username = $_POST['username'];
//Receive password from client side
$entered_password = $_POST['password'];

$register = 0;
//read users.txt line by line
foreach(file('users.txt') as $line) {
    //split each line as two parts
    list($username, $password) = explode(" ", $line);
    //verify if an exist user with the same username
    if($username == $entered_username){
        $register = 1;
        break;
    }
}

if($register == 1){
    echo "The user is exist!";
}else{
    //open a file named "text.txt"
    $file = fopen("users.txt", "a");
    //insert this user into the users.txt file
    fwrite($file, $entered_username . " " . $entered_password . "\n");
    //close the "$file"
    fclose($file);
    echo "The user has been added to the users.txt";
}

echo "<br/>Go <a href='http://titan.csit.rmit.edu.au/~e23700/Lab5/'>back</a> to register, login or check the
users.txt";
?>

</body>
</html>
```

login.html

```
<html>
<body>

<h2>Lab 5 Login</h2>

<form action="login.php" method="POST">

Username: <input type="text" name="username" id="username">
<br/><br/>
Password: <input type="password" name="password" id="password">
<br/><br/>

<button type="submit">Submit to Login</button>
</form>

</body>
</html>
```

login.php

```
<html>
<body>

<?php

//Receive username from client side
$entered_username = $_POST['username'];
//Receive password from client side
$entered_password = $_POST['password'];

$login = 0;
//read users.txt line by line
foreach(file('users.txt') as $line) {
    //split each line as two parts
    list($username, $password) = explode(",", $line);
    //verify if an exist user with the same username
    if($username == $entered_username){
        //verify the password
        if($password == $entered_password."\n"){
            $login = 1;
            break;
        }
    }
}

if($login==0){
    echo "Wrong Username or Password!";
}else{
    echo "Login successful!";
}

echo "<br/>Go <a href='http://titan.csit.rmit.edu.au/~e23700/Lab5/'>back</a> to register, login or check the
users.txt";

?>

</body>
</html>
```