Fall, 2020

COMP2121 E-Business

Lab 9: MySQL and PHP Login and logout Systems

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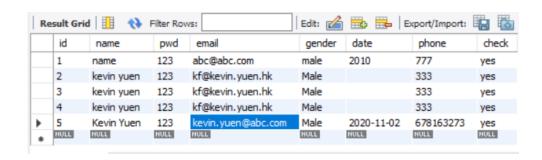
Outline

- 1. Create a general connection file (using include)
- 2. Verify the registered email
- 3. Redirect and HTTP REFERER
- Login from redirect
- Login with Session
- Logout

Ex1: Create a PHP project in Apache Netbeans IDE

- Make sure that your Apache service is running.
- Create the new PHP application Project Name as Lab09MySQL
- Locate the new project in your local Apache's *htdocs* folder, for example,
 - D:\eBusinessKevinYuenLabs\Apache24\htdocs\Lab09MySQL

Continue to the last exercise



How can we solve the problems that clients' browsers post several times?
How can we prevent duplicated registration?

The simplest way:

- 1. Check email/phoneNo input before insert the data
- 2. Redirect the web after data are inserted

Ex 2: Create a general connection file

- 1. Copy the last file (ex7.php) from previous lab to the current project
- 2. Rename the file as ex2.php;
- 3. Create a new file name as connection.php;
- 4. Cut and paste the connection code in ex2.php into connection.php;
- 5. Include connection.php at the top php code of ex2.php.

connection.php

```
include "pwd.php"; // to hide my MySQL passwords;
$serverName = "localhost";
$userName = "root";
$password = $yuenLocalPWD; //you may write your password directly
$dbname = "lab08";

$connection = new mysqli($serverName, $userName, $password,$dbname);

//var_dump($connection->connect_error); // no error return NULL
//var_dump(!$connection->connect_error); // not NULL returns true
// -> is an object operator to access methods or attributes, similar to "."
if (!$connection->connect_error) {
    echo "<br/>br> Connected successfully <br/>} else {
    die("Connection failed: " . $connection->connect_error);
}
```

Ex2.php

Registration ×
http://localhost/Lab09MySQL/ex2.php
Connected successfully
) ii i
Registration is successful!
Membership Registration
Name: Kevin Yuen
assword: •••
Retype Password:
email: kevin.yuen@hello.com
Retype email:
Gender: Female Male Others
Date of Birth (optional):
Phone number: 66666
Agree with the terms and services:
Submit
Cookie name = Kevin Yuen Cookie pwd = 345
Cookie email = kevin.yuen@hello.com
Cookie gender = Male
Cookie date = Cookie phone = 66666
Cookie check = yes
aame = Kevin Yuen
owd = 345
avd2 = 345
mail = kevin.yuen@hello.com
ender = Male late =
hone = 66666
heck = yes

Ex3: Verify the registered email

On the basis of ex2.php, create ex3.php

```
//validate email input
if (!filter var($email, FILTER VALIDATE EMAIL)) {
    echo "Invalid email format. <br>";
} else{
    $isEmail1 = true;
if (!filter var($email2, FILTER VALIDATE EMAIL)) {
    echo "Invalid retype email format. <br>";
} else{
    SisEmail2 = true;
if($email != $email2)
    echo "emails are not matched <br>";
 else{
    $isEmailMatched = true;
```

Which place will be the best location to verify if the email is registered or not?

Ex3: Verify the registered email

Ex3: Verify the registered email

id	name	pwd	email	gender	date	phone	check
1	name	123	abc@abc.com	male	2010	777	yes
2	kevin yuen	123	kf@kevin.yuen.hk	Male		333	yes
3	kevin yuen	123	kf@kevin.yuen.hk	Male		333	yes
4	kevin yuen	123	kf@kevin.yuen.hk	Male		333	yes
5	Kevin Yuen	123	kevin.yuen@abc.com	Male	2020-11-02	678163273	yes
6	Kevin Yuen	345	kevin.yuen@hello.com	Male		66666	yes
7	Kevin Yuen	345	kevin.yuen@hello.com	Male		66666	yes
8	Kevin Yuen	345	kevin.yuen@hello.com	Male		66666	yes
9	Kevin Yuen	345	kevin.yuen@hello.com	Male		66666	yes
10	Kevin Yuen	345	kevin.yuen@hello.com	Male		66666	yes
11	H Yuen	345	kevin.yuen@hello3.com	Male		4444	yes
NULL	HULL	NULL	NULL	NULL	NULL	HULL	HULL

- Rows 1-10 contain errors created previously.
- After row 11, no duplicated emails will be shown as the new email logic has been implemented.

	cted successfully	
your e	mail has been registered	
Men	nbership Registration	
Name:	Kevin Yuen	
Passwo	ord: •••	
Retype	e Password:	
Email:	kevin.yuen@hello.com	
Retype	e email:	
Gende	r: Female Male Others	
Date o	f Birth (optional):	
Phone	number: 66666	
Subm	with the terms and services:	
Cookie	e name = Kevin Yuen	
	e pwd = 345	
	e email = kevin.yuen@hello.com e gender = Male	
	e gender = Maie e date =	
	e phone = 66666	
	e check = yes	
name =	= Kevin Yuen	
pwd =		
pwd2 =		
	= kevin.yuen@hello.com := Male	
date =	- Iviaic	
	= 66666	
check:	= yes	

Connected successfully Registration is successful! Membership Registration Name: H Yuen Password: ••• Retype Password: Email: kevin.yuen@hello3.com Retype email: Gender: Female Male Others Date of Birth (optional): Phone number: 4444 Agree with the terms and services: Submit Cookie name = H Yuen Cookie pwd = 345Cookie email = kevin.yuen@hello3.com Cookie gender = Male Cookie date = Cookie phone = 4444 Cookie check = yes name = H Yuen pwd = 345pwd2 = 345email = kevin.yuen@hello3.com gender = Male date = phone = 4444 check = yes

Ex4: Redirect and HTTP_REFERER

```
<!DOCTYPE html>
                   <!--
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                     Lab09
                     2020
                    Kevin Yuen
                                                                                                                                                                                                                                                                                                                                                                     http://localhost/Lab09MySQL/ex4a.php
                   <html>
                                                                                                                                                                                                                                                                                                                                                                        <head>
                                                      <meta charset="UTF-8">
                                                                                                                                                                                                                                                                                                                                                                    This is ex4a.php
                                                     <title></title>
                                      </head>
                                                                                                                                                                                                                                                                                                                                                                    Redirect to the login webpage in 5 seconds;
                                     <body>
                                                                                                                                                                                                                                                                                                                                                                    please login.
                                                     <?php
                                                                                                                                                                                                                                                                                                                                                                    Redirect to the PolyU ex4b webpage in 5 seconds;
                                                     $time = 5;
                                                                                                                                                                                                                                                                                                                                                                    please login.
                                                    echo "This is ex4a.php";
                                                     header ("refresh: $time; url= ex4b.php");
                                                     Redirect to the login webpage in <?php echo $time ?> seconds; <br>
                                                                     please <a href="ex4b.php">login</a>. 
                                                     Redirect to the PolyU ex4b webpage in <?php echo $time ?> seconds; <br/> <br/>
                                                                     please <a href="http://www4.comp.polyu.edu.hk/~kf2yuen/Lab09MySQL/ex4b.php">login</a>.
23
                                                     24
                                      </body>
                      </html>
```

Ex4: Redirect and HTTP_REFERER



login ×	
http://localhost/Lab09MySQL/ex4b.php	
http://localhost/Lab09MySQL/ex4a.php Please use email for your login name: Login Name: Password: Submit	

Just open this webpage

Ы login ×
http://localhost/Lab09MySQL/ex4b.php
No referrer. Please use email for your login name: Login Name:
Password:
Submit

Ex5: Login from redirect

Copy ex3.php and rename as **ex5a.php**. Update the code as below.

```
if (SisName && SisPWD && SisEmail1 && SisEmail2 && SisEmailMatched && SisPhone)
   $sqlStatement = "INSERT INTO customer("
            . "'name', 'pwd', 'email', 'gender', 'date', 'phone', 'check') "
            . "VALUES('$name','$pwd','$email','$gender','$date','$phone','$check');";
   if ($connection->query($sqlStatement) === TRUE) {
      echo "<br/>br>Registration is successful! <br/> ";
     //Redirect to login.php
      $time = 5;
     echo "this is ex5a.php";
     header("refresh:$time; url= ex5b.php");
      echo " Redirect to the login webpage in $time seconds;
         <br> Or press <a href='ex5b.php'>login</a> directly. ";
    } else {
      echo "Error updating record: " . $connection->error;
    $connection ->close();
```

http://localhost/Lab09MySQL/ex5a.php
Connected successfully
Registration is successful! this is ex5a.php
Redirect to the login webpage in 5 seconds; Or press login directly.
Membership Registration
Name: Kevin Yuen
Password: •••
Retype Password:
Email: kf@edu.hk
Retype email:
Gender: Female Male Others
Date of Birth (optional):
Phone number: 333
Agree with the terms and services:
Cookie name = Kevin Yuen Cookie pwd = 123 Cookie email = kf@edu.hk
Cookie gender = Male
Cookie date = Cookie phone = 333
Cookie check = yes
name = Kevin Yuen pwd = 123 pwd2 = 123

<?php

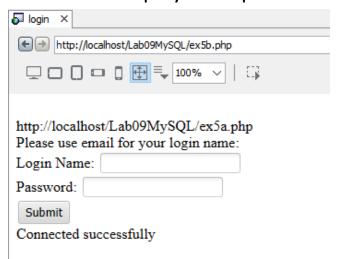
Ex5: Login with Session

Copy ex4b.php and rename as **ex5b.php**. Update the codes as below.

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1. On the top of the page, add the code

3. Display from previous step



2. After the form, add the code

```
include "connection.php";
if ($ SERVER["REQUEST METHOD"] == "POST" && isset($ POST['logName']))
   $logName = $ POST['logName']; //"kevin.yuen3@hello3.com";
   $pwd = $ POST['pwd']; //"345";
   $sqlStatement = "SELECT name, email, pwd FROM customer "
            . "WHERE email='$logName' AND pwd='$pwd';";
   $result = $connection->query($sqlStatement);
   if ($result->num rows == 0)
       echo "login information is not correct.";
       exit; // do not execute the rest code;
       $resultValue = $result->fetch assoc();
       var dump($resultValue);
       $userName = $resultValue['name'];
       $ SESSION['name'] = $userName ;
       $ SESSION['loggedin'] = true;
       echo "Hello $userName ";
       $time = 5;
       echo "redirecting to content page with login "
              . "in $time seconds";
       header("refresh:$time; url= ex5c.php");
       echo "Press <a href='ex5c.php'>here</a>. ";
                                                           13
```

Ex5: Login with Session

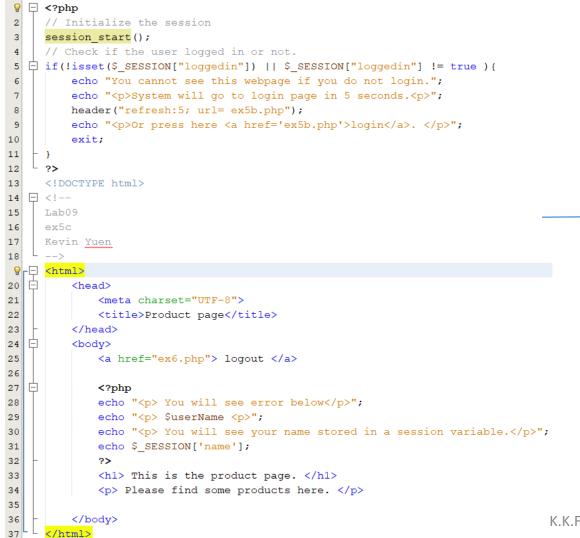
| http://localhost/Lab09MySQL/ex5b.php |
|--|
| |
| http://localhost/Lab09MySQL/ex5a.php Please use email for your login name: Login Name: kf@edu.hk Password: ••• Submit Connected successfully |

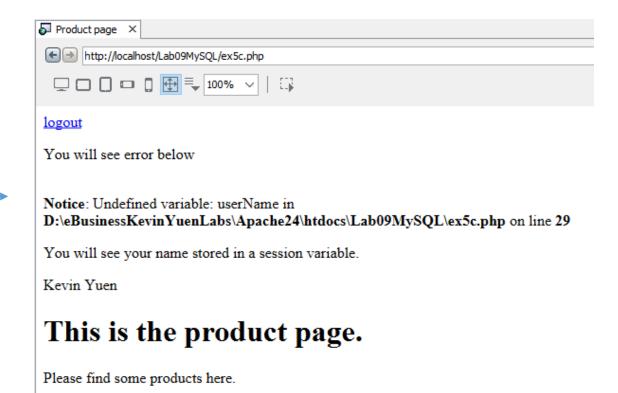
| http://localhost/Lab09MySQL/ex5b.php |
|--|
| |
| |
| http://localhost/Lab09MySQL/ex5b.php Please use email for your login name: |
| Login Name: |
| Password: |
| Submit |
| Connected successfully array(3) { ["name"]=> string(10) "Kevin Yuen" ["email"]=> string(9) |
| "kf@edu.hk" ["pwd"]=> string(3) "123" } |
| Hello Kevin Yuen |
| redirecting to content page with login in 5 seconds |
| Press <u>here</u> . |
| |



Ex5: Login with Session

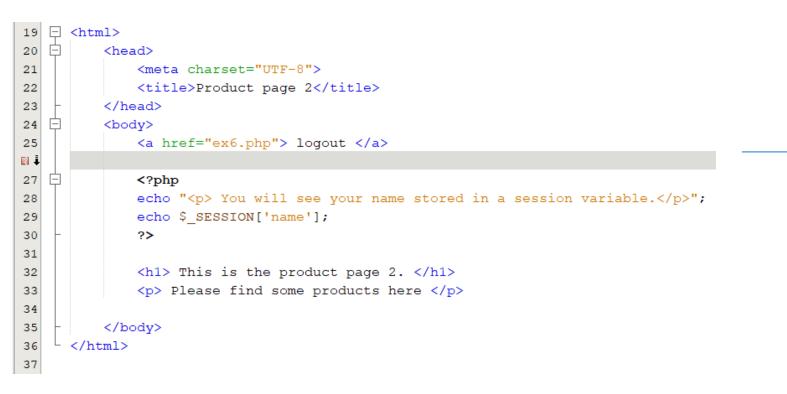
Create a webpage, ex5c.php

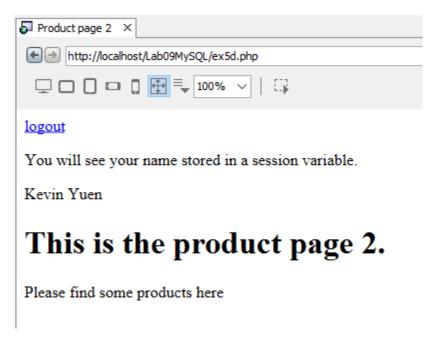




Ex5: Login with Session

On the basis of ex5c.php, create ex5d.php

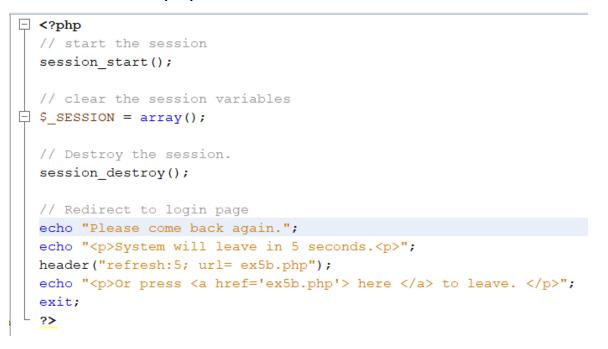


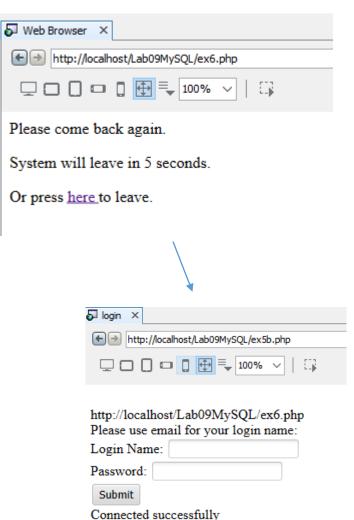




Ex6: Logout

ex6.php





Ex6: Logout

| № Web Browser × |
|--|
| http://localhost/Lab09MySQL/ex5c.php |
| |
| You cannot see this webpage if you do not login. |
| System will go to login page in 5 seconds. |
| Or press here <u>login</u> . |
| |

| Ы login × |
|---|
| http://localhost/Lab09MySQL/ex5b.php |
| |
| http://localhost/Lab09MySQL/ex5c.php Please use email for your login name: Login Name: Password: Submit Connected successfully |

Q&A Thank you