

Fall, 2020

COMP2121 E-Business

Lab 7: PHP 3

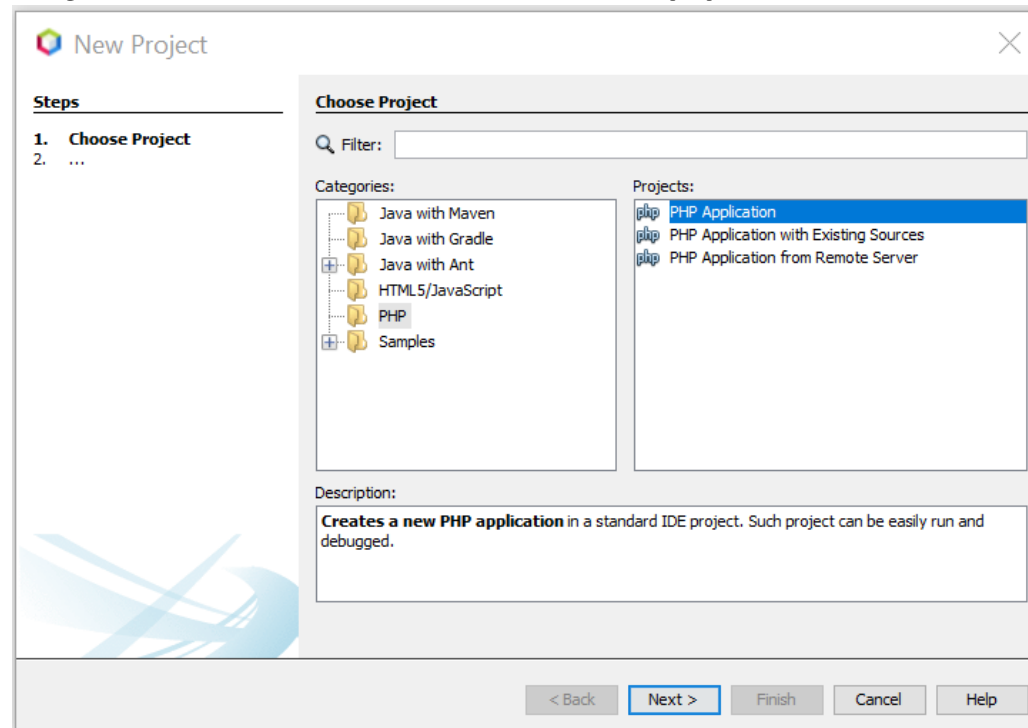
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Outline

- Set up a PHP project in Netbeans;
- Create cookies and sessions
- Form validations

Ex1: Create a PHP project in Apache Netbeans IDE

- Make sure that your Apache service is running.
- File → New Project → Choose PHP Application



Ex1: Create a PHP project in Apache Netbeans IDE

- Locate the new project under your local Apache's *htdocs* folder, for example,
 - D:\eBusinessKevinYuenLabs\Apache24\htdocs
- Under the *htdocs*, set the Project Name as *LAB07PHP*

New PHP Project

Steps

1. Choose Project
2. **Name and Location**
3. Run Configuration
4. PHP Frameworks
5. Composer

Name and Location

Project Name: LAB07PHP

Sources Folder: D:\eBusinessKevinYuenLabs\Apache24\htdocs\LAB07PHP Browse...

PHP Version: PHP 7.4
PHP version is used only for hints

Default Encoding: UTF-8

☐ Put NetBeans metadata into a separate directory

Metadata Folder: D:\eBusinessKevinYuenLabs\LAB07PHP Browse...

- Accept the default setting

Steps

1. Choose Project
2. Name and Location
3. **Run Configuration**
4. PHP Frameworks
5. Composer

Run Configuration

Specify the way this project's files will be deployed.
Configuration settings can be added and modified later in the Project Properties dialog box.

Run As: Local Web Site (running on local web server) ▼

Project URL:

☐ Copy files from Sources Folder to another location

Copy to Folder: ▼ Browse...

☐ Copy files on project open

- We do not need these frameworks at this moment. Just click “Next”.

New PHP Project

Steps

1. Choose Project
2. Name and Location
3. Run Configuration
4. **PHP Frameworks**
5. Composer

PHP Frameworks

☐ Symfony 2/3 PHP Web Framework

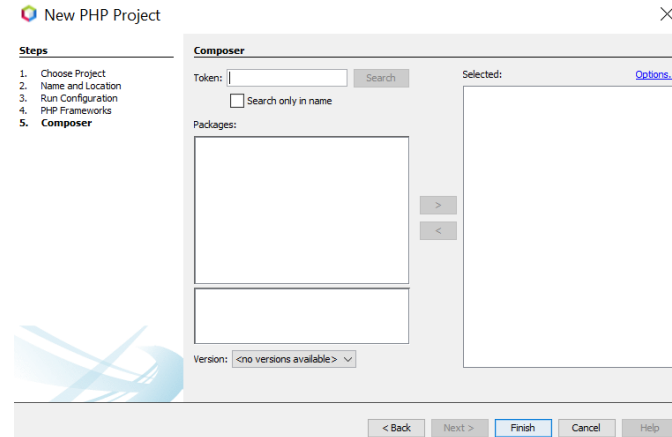
☐ Nette2 PHP Web Framework

☐ Zend2 PHP Web Framework

☐ Doctrine2 PHP Web Framework

Ex1: Create a PHP project in Apache Netbeans IDE

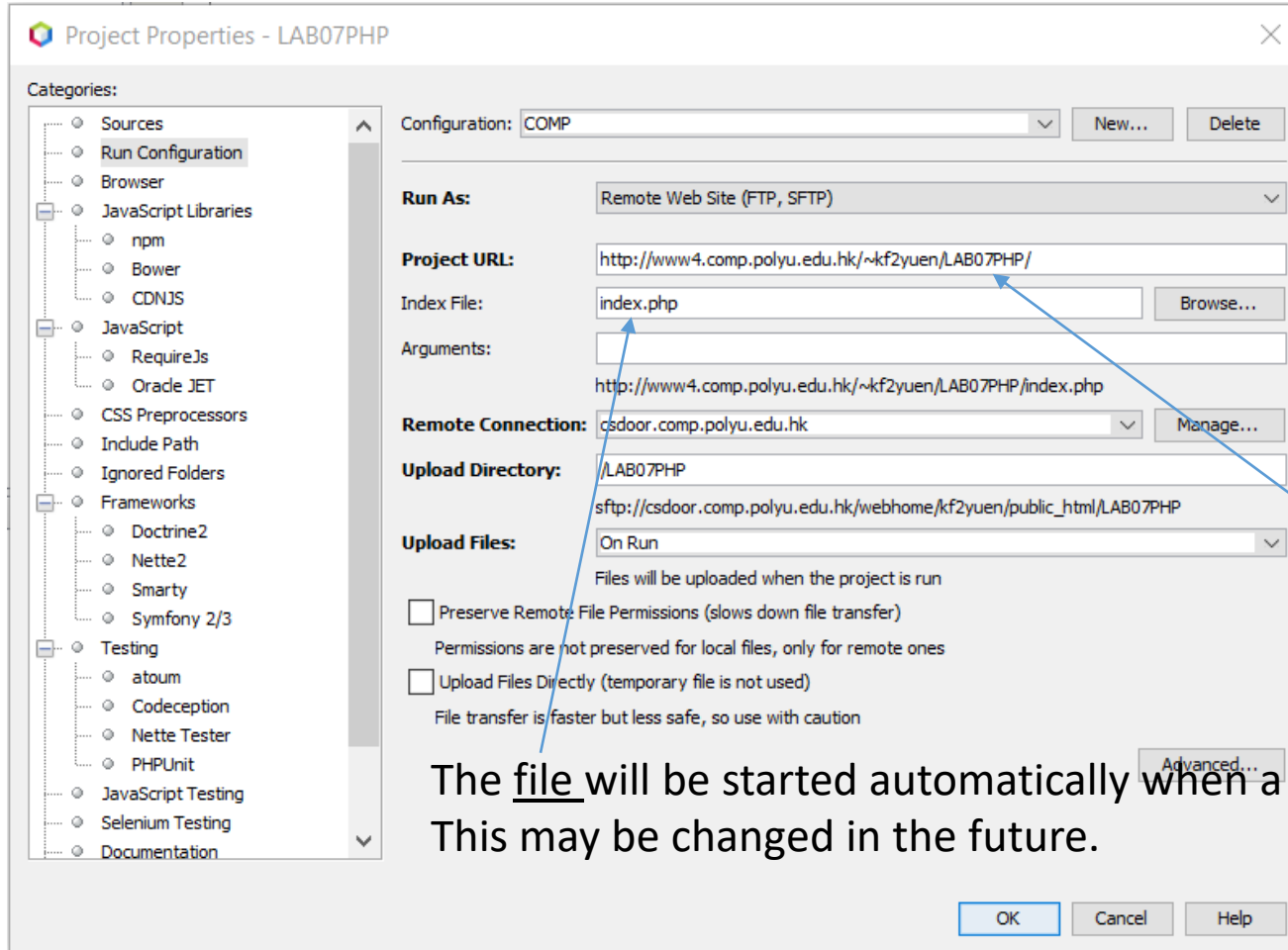
- No Composer is required. Click finish.



- You will find that a new folder named, Lab07PHP, has been created under *htdocs*.

Ex2: Configure the COMP remote Web site (FTP, SFTP)

- Right click the project, and choose properties-> run configuration->New→type “polyU” → Remote Web Site(FTP, SFTP).



- Right click a file to upload.
- Use a web browser (within the PolyU network physically or virtually) to test

Or you can use WINSCP (window user)
or filezilla (Mac user) to upload.

The file will be started automatically when a user request the URL.
This may be changed in the future.

EX3: Form with required attributes

```

1 <!DOCTYPE html>
2 <!--
3 Lab 7
4 26 Oct 2020
5 Kevin Yuen
6 -->
7 <html>
8 <head>
9 <meta charset="UTF-8">
10 <title>Registration</title>
11 </head>
12 <body>
13 <h2>Membership Registration</h2>
14 <form method="post" action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]);?>">
15     Name: <input type="text" name="name" required> <br>
16     Password: <input type="password" name="pwd" required> <br>
17     Retype Password: <input type="password" name="pwd2" required> <br>
18     Email: <input type="text" name="email" required> <br>
19     Retype email: <input type="text" name="email2" required> <br>
20     Gender:
21     <input type="radio" name="gender" value="Female" required>Female
22     <input type="radio" name="gender" value="Male" required>Male
23     <input type="radio" name="gender" value="Others" required>Others
24     <br>
25     Date of Birth (optional):<input type="date" name="date" > <br>
26     Phone number: <input type="text" name="phone" required> <br>
27     Agree with the terms and services: <input type="checkbox"
28                                         name="check" value="yes" required> <br>
29     <input type="submit">
30 </form>
31 <?php
32 ?>
33 </body>
34 </html>

```

Registration X

http://localhost/LAB07PHP/ex3.php

100%

Membership Registration

Name:

Password:

Retype Password:

Email:

Retype email:

Gender: ☐ Female ☐ Male ☐ Others

Date of Birth (optional):

Phone number:

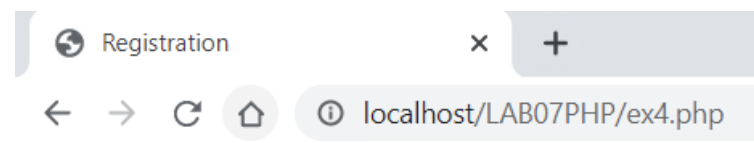
Agree with the terms and services: ☐

Submit

Ex4: display the form by POST

```
<?php
$name = $pwd = $pwd2 = $email = $gender = $date = $phone = $check = "";
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $name = $_POST["name"];
    $pwd = $_POST["pwd"];
    $pwd2 = $_POST["pwd2"];
    $email = $_POST["email"];
    $email2 = $_POST["email2"];
    $gender = $_POST["gender"];
    $date = $_POST["date"];
    $phone = $_POST["phone"];
    $check = $_POST["check"];
}

// print the result
echo 'name = ' . $name . "<br>";
echo 'pwd = ' . $pwd . "<br>";
echo 'pwd2 = ' . $pwd2 . "<br>";
echo 'email = ' . $email . "<br>";
echo 'gender = ' . $gender . "<br>";
echo 'date = ' . $date . "<br>";
echo 'phone = ' . $phone . "<br>";
echo 'check = ' . $check . "<br>";
?>
```



Membership Registration

Name:

Password:

Retype Password:

Email:

Retype email:

Gender: ☐ Female ☐ Male ☐ Others

Date of Birth (optional):

Phone number:

Agree with the terms and services: ☐

name = Kevin Yuen
pwd = 123
pwd2 = 1234
email = kf
gender = Male
date = 2020-10-27
phone = 11111a
check = yes

Ex5: Set cookies to store values

```
<?php
$name = $pwd = $pwd2 = $email = $gender = $date = $phone = $check = "";
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $name = $_POST["name"];
    $pwd = $_POST["pwd"];
    $pwd2 = $_POST["pwd2"];
    $email = $_POST["email"];
    $email2 = $_POST["email2"];
    $gender = $_POST["gender"];
    $date = $_POST["date"];
    $phone = $_POST["phone"];
    $check = $_POST["check"];

    setcookie("name", $name, time() + (86400 * 10), "/"); // 86400 = 1 day
    setcookie("pwd", $pwd, time() + (86400 * 10), "/");
    setcookie("email", $email, time() + (86400 * 10), "/");
    setcookie("gender", $gender, time() + (86400 * 10), "/");
    setcookie("date", $date, time() + (86400 * 10), "/");
    setcookie("phone", $phone, time() + (86400 * 10), "/");
    setcookie("check", $check, time() + (86400 * 10), "/");
}

function callData($cookieName, $value)
{
    $output = $value;
    if(isset($_COOKIE[$cookieName]) && $value=="")
    {
        $output = htmlentities($_COOKIE[$cookieName]);
    }
    return $output;
}
```

```
echo '<hr>';
# debug
// echo 'Cookie name = '. htmlentities($_COOKIE["name"]) . "<br>";
echo 'Cookie name = '. callData("name", $name) . "<br>";
echo 'Cookie pwd = '. callData("pwd", $pwd) . "<br>";
echo 'Cookie email = '. callData("email", $email) . "<br>";
echo 'Cookie gender = '. callData("gender", $gender) . "<br>";
echo 'Cookie date = '. callData("date", $date) . "<br>";
echo 'Cookie phone = '. callData("phone", $phone) . "<br>";
echo 'Cookie check = '. callData("check", $check) . "<br>";
echo '<hr>';

// print the result
echo 'name = '. $name . "<br>";
echo 'pwd = '. $pwd . "<br>";
echo 'pwd2 = '. $pwd2 . "<br>";
echo 'email = '. $email . "<br>";
echo 'gender = '. $gender . "<br>";
echo 'date = '. $date . "<br>";
echo 'phone = '. $phone . "<br>";
echo 'check = '. $check . "<br>";
echo '<hr>';

?>
```

Ex5: Set cookies to store values

Registration x +

localhost/LAB07PHP/ex5.php

Membership Registration

Name:

Password:

Retype Password:

Email:

Retype email:

Gender: ☐ Female ☐ Male ☐ Others

Date of Birth (optional):

Phone number:

Agree with the terms and services: ☐

Cookie name = Kevin Yuen
Cookie pwd = 123
Cookie email = kf.yuen
Cookie gender = Male
Cookie date = 2020-10-13
Cookie phone = fa12334
Cookie check = yes

name = Kevin Yuen
pwd = 123
pwd2 = 1234
email = kf.yuen
gender = Male
date = 2020-10-13
phone = fa12334
check = yes

Close browser
And
Reopen again

Registration x +

localhost/LAB07PHP/ex5.php

Membership Registration

Name:

Password:

Retype Password:

Email:

Retype email:

Gender: ☐ Female ☐ Male ☐ Others

Date of Birth (optional):

Phone number:

Agree with the terms and services: ☐

Cookie name = Kevin Yuen
Cookie pwd = 123
Cookie email = kf.yuen
Cookie gender = Male
Cookie date = 2020-10-13
Cookie phone = fa12334
Cookie check = yes

name =
pwd =
pwd2 =
email =
gender =
date =
phone =
check =

Ex6: Assign Cookies into form

Part 1

```
<body>
<?php
$name = $pwd = $pwd2 = $email = $gender = $date = $phone = $check = "";
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $name = $_POST["name"];
    $pwd = $_POST["pwd"];
    $pwd2 = $_POST["pwd2"];
    $email = $_POST["email"];
    $email2 = $_POST["email2"];
    $gender = $_POST["gender"];
    $date = $_POST["date"];
    $phone = $_POST["phone"];
    $check = $_POST["check"];

    setcookie("name", $name, time() + (86400 * 10), "/"); // 86400 = 1 day
    setcookie("pwd", $pwd, time() + (86400 * 10), "/");
    setcookie("email", $email, time() + (86400 * 10), "/");
    setcookie("gender", $gender, time() + (86400 * 10), "/");
    setcookie("date", $date, time() + (86400 * 10), "/");
    setcookie("phone", $phone, time() + (86400 * 10), "/");
    setcookie("check", $check, time() + (86400 * 10), "/");

}

function callData($cookieName,$value)
{
    $output = $value;
    if(isset($_COOKIE[$cookieName]) && $value=="")
    {
        $output = htmlentities($_COOKIE[$cookieName]);
    }
    return $output;
}
?>
```

Part 2

```
<h2>Membership Registration</h2>
<form method="post" action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]);?>">
    Name: <input type="text" name="name" value="<?php echo callData('name',$name);?>" required> <br>
    Password: <input type="password" name="pwd" value="<?php echo callData('pwd',$pwd);?>" required> <br>
    Retype Password: <input type="password" name="pwd2" required> <br>
    Email: <input type="text" name="email" value="<?php echo callData('email',$email);?>" required> <br>
    Retype email: <input type="text" name="email2" required> <br>
    Gender:
    <input type="radio" name="gender" value="Female" required>Female
    <input type="radio" name="gender" value="Male" required>Male
    <input type="radio" name="gender" value="Others" required>Others
    <br>
    Date of Birth (optional):<input type="date" name="date" value="<?php echo callData('date',$date);?>" > <br>
    Phone number: <input type="text" name="phone" value="<?php echo callData('phone',$phone);?>" required> <br>
    Agree with the terms and services: <input type="checkbox" name="check" value="yes" required> <br>
    <input type="submit">

</form>
```


Ex6: Assign Cookies into form

Part 3

```

67 <?php
68 echo '<hr>';
69 # debug
70 // echo 'Cookie name = '. htmlentities($_COOKIE["name"]) . "<br>";
71 echo 'Cookie name = '. callData("name", $name) . "<br>";
72 echo 'Cookie pwd = '. callData("pwd", $pwd) . "<br>";
73 echo 'Cookie email = '. callData("email", $email) . "<br>";
74 echo 'Cookie gender = '. callData("gender", $gender) . "<br>";
75 echo 'Cookie date = '. callData("date", $date) . "<br>";
76 echo 'Cookie phone = '. callData("phone", $phone) . "<br>";
77 echo 'Cookie check = '. callData("check", $check) . "<br>";
78 echo '<hr>';
79
80 // print the result
81 echo 'name = '. $name . "<br>";
82 echo 'pwd = '. $pwd . "<br>";
83 echo 'pwd2 = '. $pwd2 . "<br>";
84 echo 'email = '. $email . "<br>";
85 echo 'gender = '. $gender . "<br>";
86 echo 'date = '. $date . "<br>";
87 echo 'phone = '. $phone . "<br>";
88 echo 'check = '. $check . "<br>";
89 echo '<hr>';
90 ?>
91 </body>
92 </html>

```

Registration x +

localhost/LAB07PHP/ex6.php

Membership Registration

Name:

Password:

Retype Password:

Email:

Retype email:

Gender: ☐ Female ☐ Male ☐ Others

Date of Birth (optional):

Phone number:

Agree with the terms and services: ☐

Cookie name = Kevin Yuen
 Cookie pwd = 123
 Cookie email = kf.yuen
 Cookie gender = Male
 Cookie date = 2020-10-13
 Cookie phone = fa12334
 Cookie check = yes

name =
 pwd =
 pwd2 =
 email =
 gender =
 date =
 phone =
 check =

Ex7: input test

```
<?php
$name = $pwd = $pwd2 = $email = $gender = $date = $phone = $check = "";
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $name = modifyInput($_POST["name"]);
    $pwd = modifyInput($_POST["pwd"]);
    $pwd2 = modifyInput($_POST["pwd2"]);
    $email = modifyInput($_POST["email"]);
    $email2 = modifyInput($_POST["email2"]);
    $gender = modifyInput($_POST["gender"]);
    $date = modifyInput($_POST["date"]);
    $phone = modifyInput($_POST["phone"]);
    $check = modifyInput($_POST["check"]);
}
```

```
function modifyInput($x) {
    // Strip whitespace (or other characters)
    // from the beginning and end of a string
    $x = trim($x);
    // Remove the backslash:
    $x = stripslashes($x);
    // Convert special characters to HTML entities
    $x = htmlspecialchars($x);
    // return value
    return $x;
}
```


Ex7: input test

Membership Registration

Name:


Password:

Retype Password:

Email:

Retype email:

Gender: ☐ Female ☒ Male ☐ Others

Date of Birth (optional): 

Phone number:

Agree with the terms and services: ☐

Cookie name = Kevin Yuen
Cookie pwd = 123
Cookie email = kf.yuen
Cookie gender = Male
Cookie date = 2020-10-13
Cookie phone = fa12334
Cookie check = yes

name =
pwd =
pwd2 =
email =
gender =
date =
phone =
check =



Membership Registration

Name:


Password:

Retype Password:

Email:

Retype email:

Gender: ☐ Female ☐ Male ☐ Others

Date of Birth (optional): 

Phone number:

Agree with the terms and services: ☐

Cookie name = Kevin Yuen
Cookie pwd = 123
Cookie email = kf.yuen
Cookie gender = Male
Cookie date = 2020-10-13
Cookie phone = 111111a
Cookie check = yes

name = Kevin Yuen
pwd = 123
pwd2 = 1234
email = kf.yuen
gender = Male
date = 2020-10-13
phone = 111111a
check = yes

Ex8: input validation

```

25
26 $isName = $isPWD = $isEmail1 = $isEmail2 = $isEmailMatched =
27     $isPhone = false;
28 //validate name input
29 if (!preg_match("/^[a-zA-Z-' ]*$/",$name)) {
30     echo "Only letters and white space are allowed for Name.<br>";
31 } else{
32     $isName = true;
33 }
34
35 // validate password inputs
36 if($pwd != $pwd2)
37 {
38     echo "Passwords are not matched.<br>";
39 } else{
40     $isPWD = true;
41 }
42
43 //validate email input
44 if (!filter_var($email, FILTER_VALIDATE_EMAIL)) {
45     echo "Invalid email format.<br>";
46 } else{
47     $isEmail1 = true;
48 }
49
50 if (!filter_var($email2, FILTER_VALIDATE_EMAIL)) {
51     echo "Invalid retype email format.<br>";
52 } else{
53     $isEmail2 = true;
54 }

```

```

55
56 if($email != $email2)
57 {
58     echo "Passwords are not matched <br>";
59 } else{
60     $isEmailMatched = true;
61 }
62
63 //
64 if (!preg_match("/^[0-9]*$/",$phone)) {
65     echo "Only numbers are allowed for Phone.<br>";
66 } else{
67     $isPhone = true;
68 }
69
70 if($isName && $isPWD && $isEmail1 && $isEmail2 && $isEmailMatched && $isPhone)
71 {
72
73     echo "Registration is successful! <br>";
74 }
75
76 setcookie("name", $name, time() + (86400 * 10), "/"); // 86400 = 1 day
77 setcookie("pwd", $pwd, time() + (86400 * 10), "/");
78 setcookie("email", $email, time() + (86400 * 10), "/");
79 setcookie("gender", $gender, time() + (86400 * 10), "/");
80 setcookie("date", $date, time() + (86400 * 10), "/");
81 setcookie("phone", $phone, time() + (86400 * 10), "/");
82 setcookie("check", $check, time() + (86400 * 10), "/");
83

```

Registration

localhost/LAB07PHP/ex8.php

Passwords are not matched.
Invalid email format.
Invalid retype email format.
Passwords are not matched
Only numbers are allowed for Phone.

Membership Registration

Name: Kevin Yuen
Password: ...
Retype Password:
Email: kevin.yuen
Retype email:
Gender: ☐ Female ☐ Male ☐ Others
Date of Birth (optional): 10/27/2020
Phone number:
Agree with the terms and services: ☐
Submit

Cookie name = Kevin Yuen
Cookie pwd = 123
Cookie email = kevin.yuen
Cookie gender = Male
Cookie date = 2020-10-27
Cookie phone = 1111119a
Cookie check = yes

name = Kevin Yuen
pwd = 123
pwd2 = 1234
email = kevin.yuen
gender = Male
date = 2020-10-27
phone = 1111119a
check = yes



Registration

localhost/LAB07PHP/ex8.php

Registration is successful!

Membership Registration

Name: Kevin Yuen
Password: ...
Retype Password:
Email: kevin.yuen@abc.com.hk
Retype email:
Gender: ☐ Female ☐ Male ☐ Others
Date of Birth (optional): 10/27/2020
Phone number:
Agree with the terms and services: ☐
Submit

Cookie name = Kevin Yuen
Cookie pwd = 123
Cookie email = kevin.yuen@abc.com.hk
Cookie gender = Male
Cookie date = 2020-10-27
Cookie phone = 2736458
Cookie check = yes

name = Kevin Yuen
pwd = 123
pwd2 = 123
email = kevin.yuen@abc.com.hk
gender = Male
date = 2020-10-27
phone = 2736458
check = yes

Ex9: MySQL

- Please refer to Lab 1 for MySQL installation.
- We will use this form for MySQL next week.

Q&A
Thank you