

# Lab 7. Regular Expression

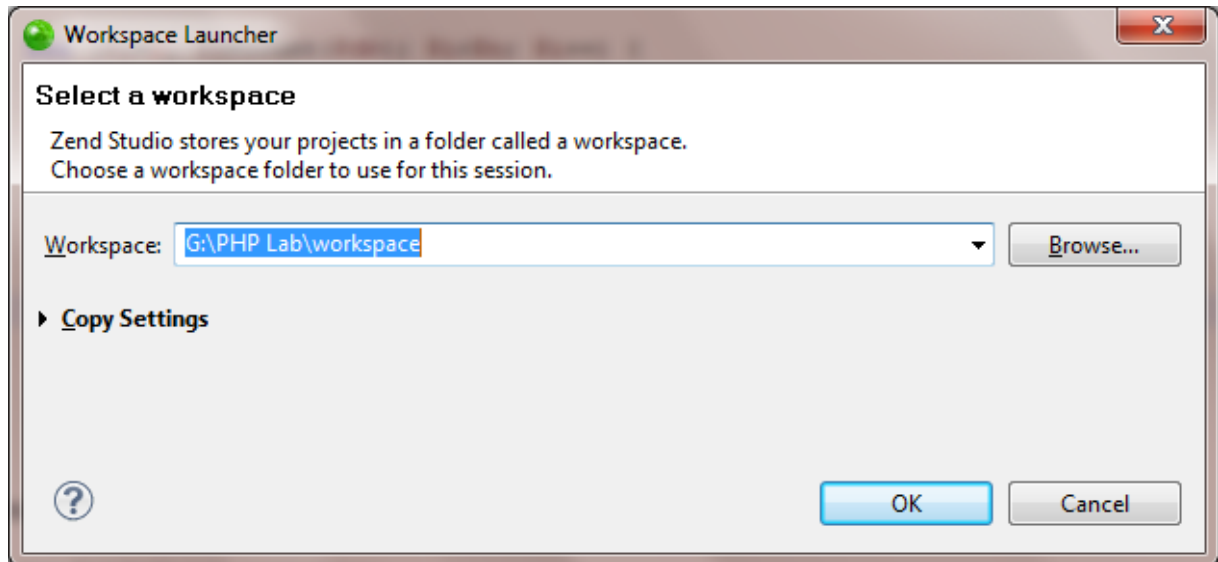
Prepared: TrangNTT

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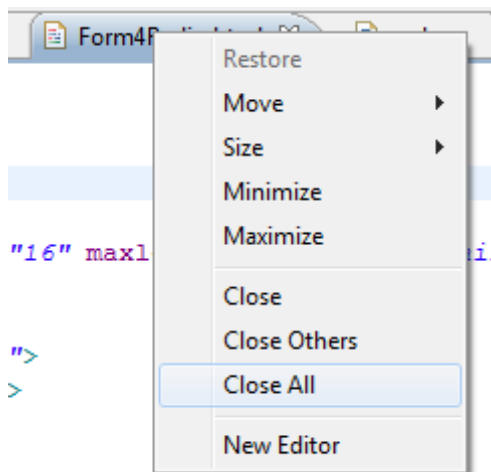
## 7.1. Open workspace and Create Folder

### Step 1. Open Zend Studio 7.0

- Select Start → All Programs → Zend Studio – 7.0.0 → Zend Studio – 7.0.0
- Choose OK to confirm the workspace.



- Close all the opening file in the **PHP Editor** view by right click to a file and choose **Close All**.



### Step 2. Right click on LapProject, choose New Folder. Enter Lab7 as folder name.

## 7.2. Product Information Request

### Step 1. ProductRequest.html

```
ProductRequest.html X ProductProcess.php http://localhost:80/Lab5/Lab7/ProductRequest.html
1 <HTML>
2   <HEAD><TITLE>Product Information Request</TITLE>
3   <BODY>
4     <FORM ACTION="ProductProcess.php" METHOD="POST">
5
6     <H1>Happy Harry's Hardware Product Information</H1>
7     <table>
8       <tr>
9         <td>Enter product code (Use AB## format):</td>
10        <td><INPUT TYPE="text" SIZE="6" NAME="code"></td>
11      </tr>
12      <tr>
13        <td>Please enter description:</td>
14        <td><INPUT TYPE="text" SIZE="50" NAME="description"></td>
15      </tr>
16      <tr>
17        <td colspan="2" align="center">
18          <INPUT TYPE="submit" VALUE="Submit">
19          <INPUT TYPE="reset" VALUE="Reset">
20        </td>
21      </tr>
22    </table>
23  </FORM>
24 </BODY>
25 </HTML>
```

### Step 2. ProductProcess.php

```
ProductRequest.html X ProductProcess.php X http://localhost:80/Lab5/Lab7/ProductRequest.html
1 <html>
2   <head><title>Product Information Results </title></head>
3   <body>
4     <?php
5
6     $description = $_POST[description];
7     $code = $_POST[code];
8     $products = array( 'AB01'=>'25-Pound Sledgehammer',
9                       'AB02'=>'Extra Strong Nails',
10                      'AB03'=>'Super Adjustable Wrench',
11                      'AB04'=>'3-Speed Electric Screwdriver');
12     if (ereg('boat|plane', $description)) {
13       print 'Sorry, we do not sell boats or planes anymore';
14     } elseif (ereg('^AB', $code)){
15       if (isset($products["$code"])){
16         print "Code $code Description: $products[$code]";
17       } else {
18         print 'Sorry, product code not found';
19       }
20     } else {
21       print 'Sorry, all our product codes start with "AB"';
22     }
23   }
24   ?>
25 </body>
26 </html>
```

### Step 3. Run

1)

The first screenshot shows a web browser at the URL `http://localhost/Lab5/Lab7/ProductRequest.html`. The page title is "Happy Harry's Hardware Product Information". It contains a form with two input fields: "Enter product code (Use AB## format):" with the value "AA93", and "Please enter description:" with the value "This is boat product". There are "Submit" and "Reset" buttons. An arrow points from the "Submit" button to the second screenshot.

The second screenshot shows the browser at the URL `http://localhost/Lab5/Lab7/ProductProcess.php`. The page displays the message: "Sorry, we do not sell boats or planes anymore".

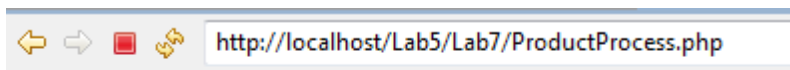
2)

The third screenshot shows the browser at the URL `http://localhost/Lab5/Lab7/ProductRequest.html`. The form has "AA93" in the product code field and "clothes" in the description field. An arrow points from the "Submit" button to the fourth screenshot.

The fourth screenshot shows the browser at the URL `http://localhost/Lab5/Lab7/ProductProcess.php`. The page displays the message: "Sorry, all our product codes start with 'AB'".

3)

The fifth screenshot shows the browser at the URL `http://localhost/Lab5/Lab7/ProductRequest.html`. The form has "AB93" in the product code field and "clothes" in the description field. The "Submit" and "Reset" buttons are visible. An arrow points down from the "Submit" button.



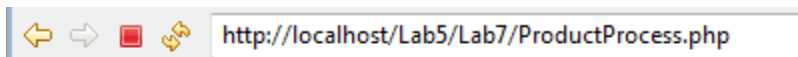
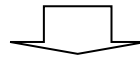
Sorry, product code not found

4)

Happy Harry's Hardware Product Information

Enter product code (Use AB## format):

Please enter description:



Code AB02 Description: Extra Strong Nails

### 7.3. Date Validation

#### Step 1. CheckDate.html

```
1 <HTML>
2   <HEAD><TITLE>Product Information Request</TITLE>
3   <BODY>
4     <FORM ACTION="DateProcessing.php" METHOD="POST">
5
6       <H1>Check Date</H1>
7       <table>
8         <tr>
9           <td>Enter a date to check (mm/dd/yyyy) :</td>
10          <td><input type="text" size=15 name=date></td>
11        </tr>
12        <tr>
13          <td colspan="2" align="center">
14            <INPUT TYPE="submit" VALUE="Check validation">
15            <INPUT TYPE="RESET" VALUE="Reset">
16          </td>
17        </tr>
18      </table>
19    </FORM>
20  </BODY>
21 </HTML>
```

## Step 2. DateProcessing.php

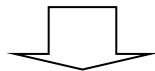
```
1 <html>
2   <head><title>Date Check</title></head>
3   <body>
4       <?php
5
6           $date = $_POST["date"];
7           $two='[[:digit:]]{2}';
8           $month='[0-1][[:digit:]]';
9           $day='[0-3][[:digit:]]';
10          $year="2[[:digit:]]$two";
11          if ( ereg("^($month)/($day)/($year)$", $date ) ) {
12              print "Valid date=$date <br>";
13          } else {
14              print "Invalid date=$date";
15          }
16      ?>
17  </body>
18 </html>
```

## Step 3. Run

← → 🏠 📄 http://localhost/Lab5/Lab7/CheckDate.html

# Check Date

Enter a date to check (mm/dd/yyyy):



← → 🏠 📄 http://localhost/Lab5/Lab7/DateProcessing.php

Invalid date=30/02/2009

## 7.4. Modify 12.3 to fully check a valid date

## 7.5. Exercise

1. Compare the preg\_match() function with ereg() function; preg\_replace() function with ereg\_replace() function.
2. Write a web page to input and validate the followings using regular expressions:
  - Email address
  - URL address
  - Phone number