Pengembangan Aplikasi Web

Pertemuan Ke-3 (PHP Lanjut 1)

Noor Ifada noor.ifada@{trunojoyo.ac.id, if.trunojoyo.ac.id}

S1 Teknik Informatika – Universitas Trunojoyo Madura (UTM) Semester Gasal 2017-2018

Sub Pokok Bahasan

- Array dalam PHP
- Struktur Kontrol
- Fungsi (Function)
- Variabel Global Versus Lokal
- Pass-by-Value Versus Pass-by-Reference
- Tanda Quote
- Penggunaan Include
- Pemrograman Berbasis Obyek

Array dalam PHP

```
<?php
 // inisialisasi array:
 foo = array(36, 19, 27, 9, 10, 10, -89);
                 // 36
 echo $foo[0];
 echo $foo[2];
                     // 27
                    // $foo[3] berubah menjadi 42
 foo[3] = 42;
 echo $foo[3];
 $i = 4;
               // $foo[4] berubah menjadi 34
 foo[i] = 34;
 echo $foo[$i];
 // isi array berbeda tipe data:
 $bar = array(42, 3.14, 'Fred', True);
 $bar = array();  // array kosong
```

Array dalam PHP [2]

http://www.php.net/manual/en/language.types.array.php

• Indeks dari array tidak harus berupa integer:

Array dalam PHP [3]

Indeks dari array tidak terurut:

Jadi, isi array \$foo adalah:

```
$foo = array(0 => 36, 1 => 19, 2 => 27,
3 => 9, 4 => 10, 5 => 10,
6 => -89, 99 => 3);
```

Struktur Kontrol

http://php.net/manual/en/language.control-structures.php

```
for ($i = 1; $i <= 10; $i++)
 4
            echo "$i => $list[$i]<br/>";
        Si = 0;
        while ($list[$i] != 'Last')
10
11
12
            echo $list[$i];
13
            $i++;
14
15
16
        if ($i < 50)
17
18
            echo 'found';
19
20
        else
21
22
            echo 'not found';
23
24
```

Struktur Kontrol [2]: Foreach

http://php.net/manual/en/control-structures.foreach.php

```
<?php
                                                           36

    \text{$mylist} = array(36,19,27,9,10,10,-89);

                                                           19
                                                           27
    foreach ($mylist as $v)
                                                           10
       echo "$v"."<br/>";
                                                           10
                                                           -89
   $places = array(5 => 'Adi', 2 => 'Budi',
                                                           Posisi: 5, Atlit: Adi
                    'akhir' => 'Citra' );
    foreach ($places as $key => $val)
                                                           Posisi: 2, Atlit: Budi
       echo "Posisi: $key, Atlit: $val";
                                                           Posisi: akhir, Atlit: Citra
?>
```

Struktur Kontrol [3]: Foreach

```
<h1>Daftar Buah:</h1>

Apel;
Jeruk;
Pisang;
```

Daftar Buah:

- Apel
- Jeruk
- Pisang

Penyelesaian dengan menggunakan foreach?

Fungsi (Function)

http://php.net/manual/en/language.functions.php

- Pemanggilan fungsi:
 - ■Sebutkan nama fungsi dan pisahkan daftar argumen dengan menggunakan tanda "koma"
 - □Contoh:

```
$name = trim(substr($line, 12, 6));
```

- NOTE:
 - Nama fungsi adalah case-insensitive
 - Nama variabel adalah case-sensitive

Fungsi (Function): Built-in

http://php.net/manual/en/funcref.php

- String (http://php.net/manual/en/ref.strings.php)
 strlen, substr, trim, strstr
- Arrays (http://php.net/manual/en/book.array.php)
 array, count, sort, asort, ksort,
 array key exists, array push, array pop
- Date/Time (http://php.net/manual/en/book.datetime.php)

 checkdate, date_add, date_diff, strtotime, date, getdate, mktime, time
- Math (<u>http://php.net/manual/en/book.math.php</u>) abs, ceil, floor, log, min, max, pow, round, rand, sqrt, sin, cos, tan
- Ekstensi: http://php.net/manual/en/extensions.membership.php

Fungsi (Function): User Defined

http://php.net/manual/en/functions.user-defined.php

```
function foo($arg1, $arg2, $arg3)

function foo($arg1, $arg2, $arg3, $arg3
```

Variabel Global Versus Lokal

http://php.net/manual/en/language.variables.scope.php

```
Global variables:
$x: 42
$y: 48
$a: 5
```

```
Local variables:
$x: 48
$y: 42
```

- Parameter dan variabel lain yang digunakan di dalam fungsi merupakan variabel local dari fungsi tersebut
 - Bahkan jika namanya sama dengan nama variabel global
- Secara default, argumen fungsi diaplikasikan secara "pass-by-value"

Pass-by-Value Versus Pass-by-Reference

http://php.net/manual/en/language.references.pass.php

```
function foo($a)
            a[1] = 0;
        function bar (&$a)
 9
             a[1] = 0;
11
12
13
        $x = array(1, 2, 3);
14
15
        foo($x);
16
        echo $x[1];
17
        bar ($x);
18
19
        echo $x[1];
20
```

```
Local variables:
$a: array(1, 0, 3)

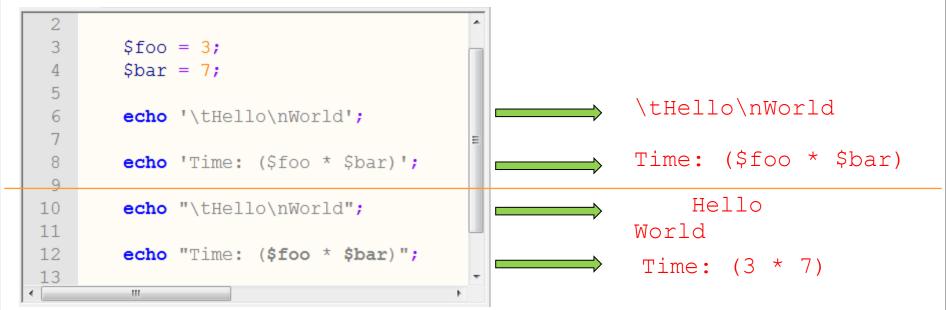
Local variables:
$a:

Global variables:
$x: array(1, 0, 3)
```

Tanda Quote

	Single Quote	Double Quote
Single Quote	echo 'Today is Paul\'s birthday';	echo "This is a very 'special' day.";
Double Quote	<pre>echo 'Hello';</pre>	<pre>echo "\$body";</pre>

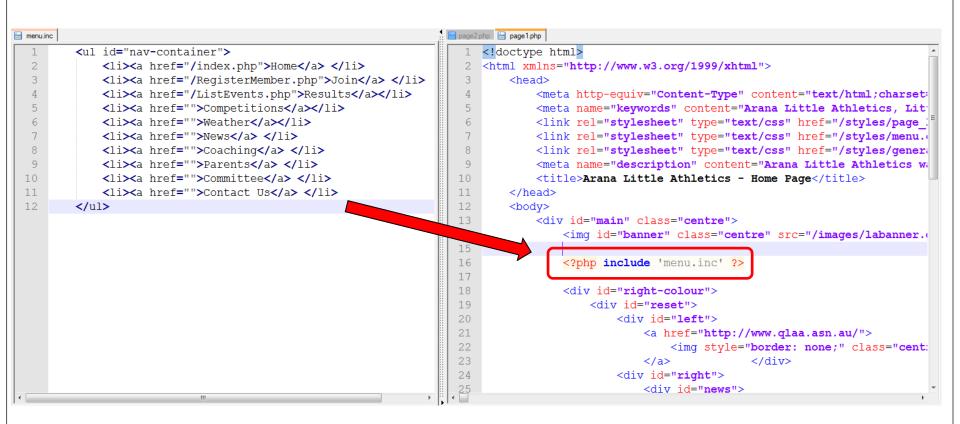
NOTE: Karakter string di dalam *Single quote* tidak diproses



Penggunaan Include

```
page1.php
     <!doctype html>
                                                                                       <!doctype html>
     <html xmlns="http://www.w3.org/1999/xhtml">
                                                                                       <html xmlns="http://www.w3.org/1999/xhtml">
                                                                                           <head>
         <head>
  4
            <meta http-equiv="Content-Type" content="text/html;charset=UTF-8" />
                                                                                     4
                                                                                               <meta http-equiv="Content-Type" content="text/html;charset=UTF-8" />
  5
                                                                                     5
            <meta name="keywords" content="Arana Little Athletics, Little Athletic</pre>
                                                                                               <meta name="keywords" content="Arana Little Athletics, Little Athletics,</pre>
  6
            <link rel="stylesheet" type="text/css" href="/styles/page layout.css"</pre>
                                                                                     6
                                                                                               <link rel="stylesheet" type="text/css" href="/styles/page layout.css" />
                                                                                     7
                                                                                               <link rel="stylesheet" type="text/css" href="/styles/menu.css" />
            <link rel="stylesheet" type="text/css" href="/styles/menu.css" />
  8
            <link rel="stylesheet" type="text/css" href="/styles/general.css" />
                                                                                     8
                                                                                               <link rel="stylesheet" type="text/css" href="/styles/general.css" />
  9
            <meta name="description" content="Arana Little Athletics was establis)</pre>
                                                                                     9
                                                                                               <meta name="description" content="Register a new athlete" />
            <title>Arana Little Athletics - Home Page</title>
                                                                                               <title>Arana Little Athletics - Registration Page</title>
         </head>
                                                                                               <link rel="stylesheet" type="text/css" href="/styles/forms.css" />
         <body>
                                                                                               <script src="/scripts/register.js" type="text/javascript">
            <div id="main" class="centre">
                                                                                               </script>
 14
                <img id="banner" class="centre" src="/images/labanner.gif" alt="Li</pre>
                                                                                    14
                                                                                           </head>
                                                                                           <body>
                ul id="nav-container">
 16
                    <a href="/index.php">Home</a> 
                                                                                    16
                                                                                               <div id="main" class="centre">
                    <a href="/RegisterMember.php">Join</a> 
                                                                                                   <img id="banner" class="centre" src="/images/labanner.gif" alt="Litt"</pre>
                                                                                    18
                    <a href="/ListEvents.php">Results</a>
                                                                                                   19
                                                                                    19
                    <a href="">Competitions</a>
                                                                                                       <a href="/index.php">Home</a> 
                    <a href="">Weather</a>
                                                                                                      <a href="/RegisterMember.php">Join</a> 
                    <a href="">News</a> 
                                                                                                      <a href="/ListEvents.php">Results</a>
                    <a href="">Coaching</a> 
                                                                                                       <a href="">Competitions</a>
                    <a href="">Parents</a> 
                                                                                                       <a href="">Weather</a>
 24
                    <a href="">Committee</a> 
                                                                                    24
                                                                                                       <a href="">News</a> 
                    <a href="">Contact Us</a> 
                                                                                                      <a href="">Coaching</a> 
 26
                <a href="">Parents</a> 
 27
                <div id="right-colour">
                                                                                                       <a href="">Committee</a> 
                    <div id="reset">
                                                                                                       <a href="">Contact Us</a> 
 29
                        <div id="left">
                                                                                                   <div id="right-colour">
                            <a href="http://www.qlaa.asn.au/">
                                <img style="border: none;" class="centre" src="/ir</pre>
                                                                                                       <div id="reset">
                                           </div>
                                                                                                          <div id="left">
                            </a>
                        <div id="right">
                                                                                                              <a href="http://www.glaa.asn.au/">
 34
                            <div id="news">
                                                                                    34
                                                                                                                  <imq style="border: none;" class="centre" src="/image</pre>
                               <div id="news-heading">
                                                                                                              </a>
 36
                                   Latest News
                                                                                                          </div>
                               </div>
 38
                                <div id="news-body">
                                                                                                              <h1>Registration Form</h1>?<form action="RegisterMember.]
 39
                                                                                                                  <fieldset>
                                       Nominations close for Junior Carnival/Seni
                                                                                                                      <legend>Athlete Information</legend>
```

Penggunaan Include [2]



Penggunaan Include [3]

```
page2.php 📙 page1.php
menu.inc
         <!doctype html>
  2
                                                                    <html xmlns="http://www.w3.org/1999/xhtml">
            <a href="/index.php">Home</a> 
            <a href="/RegisterMember.php">Join</a> 
                                                                 3
            <a href="/ListEvents.php">Results</a>
                                                                 4
                                                                           <meta http-equiv="Content-Type" content="text/html;charset:</pre>
            <a href="">Competitions</a>
                                                                           <meta name="keywords" content="Arana Little Athletics, Lit</pre>
            <a href="">Weather</a>
                                                                 6
                                                                           <link rel="stylesheet" type="text/css" href="/styles/page</pre>
            <a href="">News</a> 
                                                                           <link rel="stylesheet" type="text/css" href="/styles/menu.</pre>
  8
            <a href="">Coaching</a> 
                                                                 8
                                                                           k rel="stylesheet" type="text/css" href="/styles/generation"
  9
                                                                 9
                                                                           <meta name="description" content="Register a new athlete"</pre>
            <a href="">Parents</a> 
            <a href="">Committee</a> 
                                                                10
                                                                           <title>Arana Little Athletics - Registration Page</title>
 11
            <a href="">Contact Us</a> 
                                                                11
                                                                           <link rel="stylesheet" type="text/css" href="/styles/forms</pre>
         12
                                                                           <script src="/scripts/register.js" type="text/javascript">
                                                                           </script>
                                                                        </head>
                                                                        <body>
                                                                           <div id="main" class="centre">
                                                                16
                                                                17
                                                                               <imq id="banner" class="centre" src="/images/labanner.</pre>
                                                                18
                                                                               <?php include 'menu.inc' ?>
                                                                19
                                                                21
                                                                               <div id="right-colour">
                                                                                   <div id="reset">
                                                                                       <div id="left">
                                                                24
                                                                                           <a href="http://www.qlaa.asn.au/">
                                                                25
                                                                                               <ima stvle="border: none:" class="cent:</pre>
```

Pemrograman Berbasis Obyek

http://php.net/manual/en/language.oop5.php

- Pemrograman berbasis obyek di dalam PHP:
 - Classes
 - Methods
 - Fields

• NOTE: Fitur ini tidak dibahas di dalam perkuliahan Pengembangan Aplikasi *Web*



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