

Pengembangan Aplikasi Web

Pertemuan Ke-2 (Pengenalan PHP)

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Sub Pokok Bahasan

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PHP



- Merupakan *server-side scripting language*
- Mirip dengan sintaks C, Java dan Perl
- Sejarah:
 - ❑ Dikembangkan oleh Rasmus Lerdorf pada tahun 1994
 - ❑ Sekarang dikelola oleh PHP Group (<http://php.net/>)
- *Cross Platform*
 - ❑ (*Free*) untuk Windows, Linux, Mac dan Unix
 - ❑ Dapat bekerja dengan berbagai *web server* (contoh: IIS, Apache) dan sistem basisdata (contoh: MySQL, MS SQL Server, Oracle)
- Dokumentasi: <http://www.php.net/docs.php>

Instalasi Software

Dibutuhkan	Spesifikasi minimal	
<i>Web Server</i>	Apache 2.4.27	XAMPP for Windows 7.1.8
<i>PHP Engine</i>	7.1.8	
<i>Server/Sistem Basisdata</i>	MariaDB 10.1.26	
<i>Text Editor</i>	Notepad++	
<i>Web Browser</i>	Google Chrome	

NOTE: Cek dokumen praktikum (bagian I)!

Aktivasi Modul

XAMPP Control Panel v3.2.2 [Compiled: Nov 12th 2015]

XAMPP Control Panel v3.2.2

Modules

Service	Module	PID(s)	Port(s)	Actions
<input type="checkbox"/>	Apache	4380 3044	80, 443	Stop Admin Config Logs
<input type="checkbox"/>	MySQL	5616	3306	Stop Admin Config Logs
<input type="checkbox"/>	FileZilla			Start Admin Config Logs
<input type="checkbox"/>	Mercury			Start Admin Config Logs
<input type="checkbox"/>	Tomcat			Start Admin Config Logs

Config Netstat Shell Explorer Services Help Quit

14:10:30 [main] Checking for prerequisites
14:11:04 [main] All prerequisites found
14:11:04 [main] Initializing Modules
14:11:04 [main] Starting Check-Timer
14:11:04 [main] Control Panel Ready
14:11:07 [Apache] Attempting to start Apache app...
14:11:07 [Apache] Status change detected: running
14:11:22 [mysql] Attempting to start MySQL app...
14:11:46 [mysql] Status change detected: running

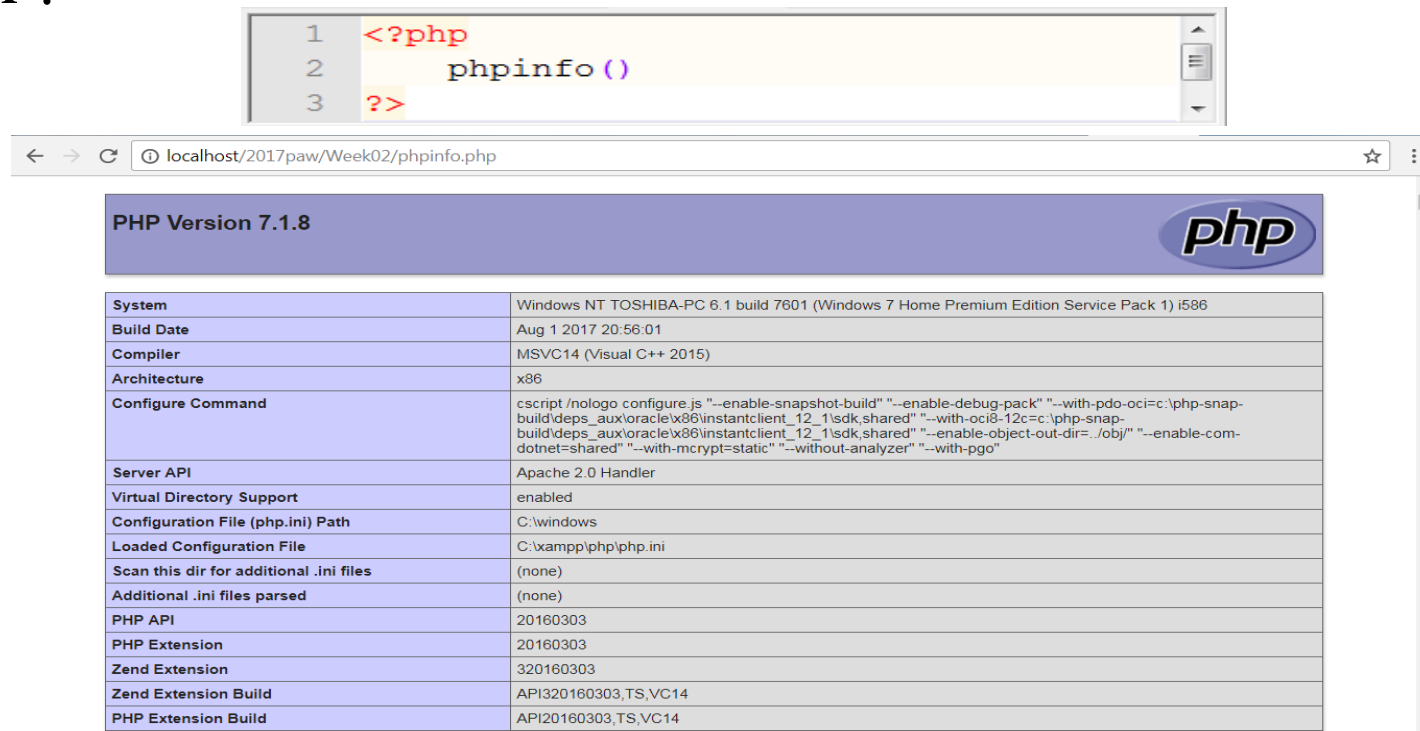
Pengujian Instalasi

- Web server:

- ❑ Melalui web browser buka URL: <http://localhost>

- ❑ Penyimpanan data di *local drive*: <C:\xampp\htdocs\>

- PHP:



```
1 <?php
2     phpinfo ()
3 ?>
```

PHP Version 7.1.8	
System	Windows NT TOSHIBA-PC 6.1 build 7601 (Windows 7 Home Premium Edition Service Pack 1) i586
Build Date	Aug 1 2017 20:56:01
Compiler	MSVC14 (Visual C++ 2015)
Architecture	x86
Configure Command	cscrip /nologo configure.js "--enable-snapshot-build" "--enable-debug-pack" "--with-pdo-oci=c:\php-snap-build\deps_aux\oracle\x86\instantclient_12_1\sdk,shared" "--with-oci8-12c=c:\php-snap-build\deps_aux\oracle\x86\instantclient_12_1\sdk,shared" "--enable-object-out-dir=../obj/" "--enable-com-dotnet=shared" "--with-mcrypt=static" "--without-analyzer" "--with-pgo"
Server API	Apache 2.0 Handler
Virtual Directory Support	enabled
Configuration File (php.ini) Path	C:\windows
Loaded Configuration File	C:\xampp\php\php.ini
Scan this dir for additional .ini files	(none)
Additional .ini files parsed	(none)
PHP API	20160303
PHP Extension	20160303
Zend Extension	320160303
Zend Extension Build	API320160303,TS,VC14
PHP Extension Build	API20160303,TS,VC14

Tag PHP

Start tag: `<?php`

End tag: `?>`

- Tag lain (*not recommended*):

`<? ?>`

`<% %>`






- Contoh PHP sederhana:

```
<?php echo "Hello World!"; ?>
```

Echo dan Concatenation

<http://php.net/manual/en/function.echo.php>

- Echo: untuk mencetak/menampilkan hasil di *web browser*

<code>echo 'hello world';</code>		hello world
<code>echo 42;</code>		42
<code>echo('hello world');</code>		hello world
<code>echo 'hello', 42, 'world';</code>		hello42world
<code>\$value = 19; echo sqrt(\$value * 64);</code>		34.871191548325

Concatenation.

- Data String: `<?php echo " Hello " . " World! "; ?>`
- Data Numerik: `<?php echo 2+3; ?>`

Penggunaan Komentar

<http://php.net/manual/en/language.basic-syntax.comments.php>

```
2
3  echo 'Line 1'; // everything to the end of the line is a comment
4  /* Everything from this start
5     comment characters down
6     to the next end comment marker */
7  echo 'Line 2';
8  echo 'Line 3'; # The hash symbol can also be used for one-line comments
9
```

Kombinasi HTML dan PHP

```
<html>
  <head>
    <title>HTML and PHP Combination</title>
  </head>
  <body>
    <h1>Some normal HTML headings</h1>
    <?php
      for ($i=0; $i<10; $i++)
        echo 'This code was generated by PHP<br/>';
    ?>
    <p>
      Some more normal HTML code <?php echo date('d-M-Y'); ?>
    </p>
  </body>
</html>
```

Kombinasi HTML dan PHP [2]

Ekivalen

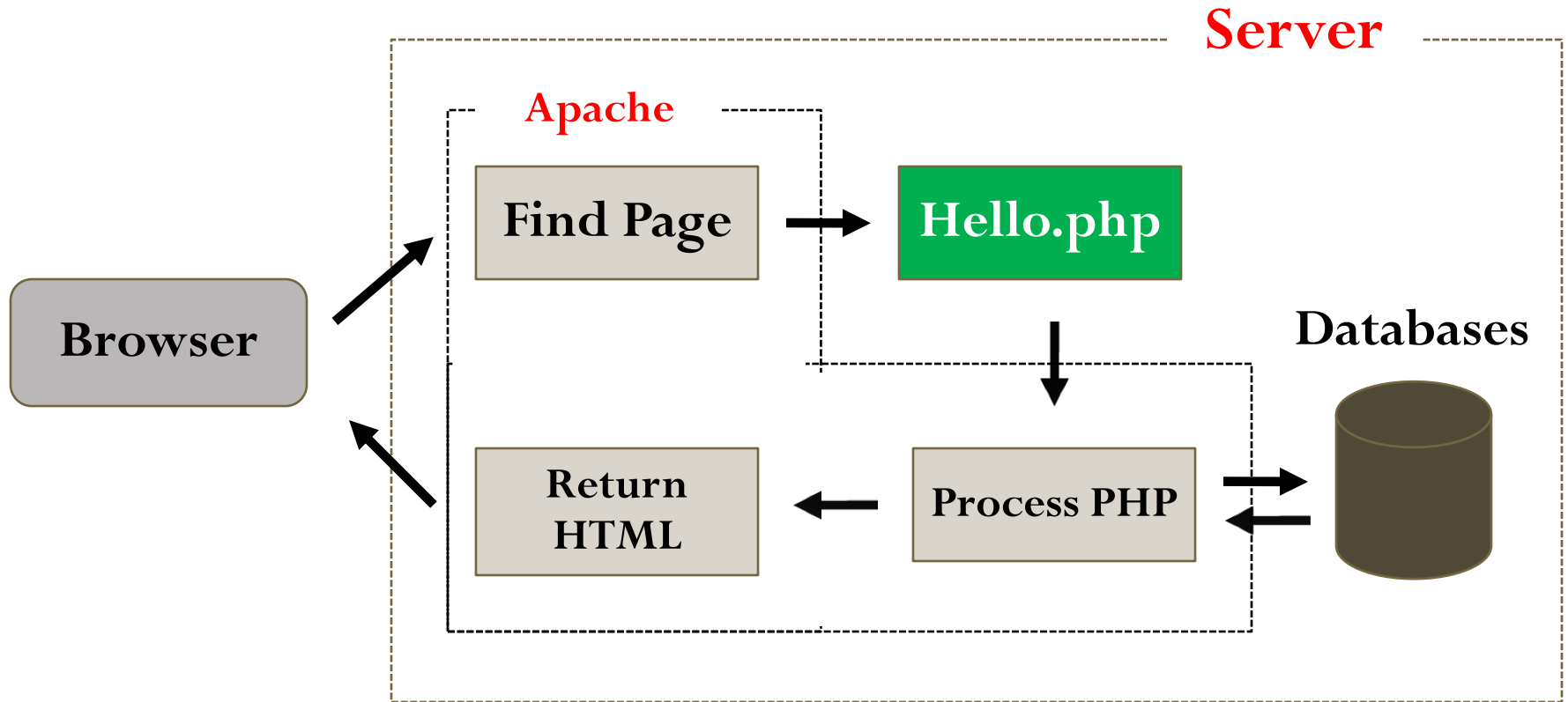
```
1 <?php
2     if ($expression)
3     {
4     ?>
5         <strong>This is true.</strong>
6     <?php
7     }
8     else
9     {
10    ?>
11        <strong>This is false.</strong>
12    <?php
13    }
14    ?>
```

Memerlukan
lebih banyak
tag PHP

```
1 <?php
2     if ($expression)
3     {
4         echo '<strong>This is true.</strong>';
5     }
6     else
7     {
8         echo '<strong>This is false.</strong>';
9     }
10    ?>
```

Memerlukan
penggunaan
fungsi *echo*
dan tanda *quote*
sebagai
penanda
karakter *string*

Langkah Operasional



Source: <https://www.youtube.com/watch?v=dMxNzS51nAU>

Variabel

<http://php.net/manual/en/language.types.php>

<http://php.net/manual/en/language.variables.php>

- Tipe data:

- | | | |
|-------------------------|-----------------|-------|
| ▶ <i>Boolean</i> | ▶ <i>String</i> | ▶ ... |
| ▶ <i>Integer</i> | ▶ <i>Array</i> | |
| ▶ <i>Floating point</i> | ▶ <i>Object</i> | |

- Aturan penamaan:

- ☐ Nama variabel adalah *case-sensitive*
- ☐ Diawali dengan simbol “dollar” (\$)

- Contoh:

```
$dob = mktime(0, 0, 0, 7, 25, 2000);  
$age2 = 17;  
$nama = 'eve';  
$cost = $age2 * 10;
```

