

Sahana Developer Training

PHP

PHP-Overview

- PHP Hypertext Preprocessor
- Is a Scripting language for web development
- Is Platform independent
 - Windows, Linux, Mac...
 - Web browser
- Version
 - PHP 5,6
- Is an Interpreted language

PHP-Setup

- Windows
 - WAMP, XAMPP
- Linux
 - Apache module
 - Apt-get install php5
- Mac?



PHP-Writing Code

- `<?php` all code comes between these `?>`
- Write code in some text editor or dev environment
- Store files with `.php` extension
 - `example_file.php`
- Store PHP file web server root folder



PHP-Check

- `<?php`
- `phpinfo();`
- `?>`

PHP-Hello Alpha Centauri

- `<?php`
- `echo "Hello Alpha Centauri";`
- `?>`
-
- Hello Alpha Centauri

PHP-Embedding PHP

- `<html>`
- `<body>`
- `<? echo 'Short Tags - Most common' ?>`
- `
`
- `<?php echo 'Long Tags - Portable' ?>`
- `</html>`



Variables/Expressions

- `<?php`
- `$var = 1;`
- `$var2 = "this_is_a_string";`
- `$var3 = 1.32;`
- `$var4 = $var + 1;`
- `?>`



Arrays

- `<?php`
- `$foo[1] = 1;`
- `$foo[2] = 2;`
- `$bar[1][2] = 3;`
- `?>`

Functions

- `<?php`
- `phpinfo();`
- `foo();`
- `$len = strlen($foo);`
- `?>`



Control Structures

- `<?php`
- `while($foo>1) {`
- `...`
- `}`
- `if($test==true){`
- `....`
- `}`
- `?>`

Output

- `<?php`
- `echo $foo;`
- `printf("%.2f", $price);`
- `?>`

Object Orientation

- `<?php`
- `class Cart {`
- `var $items;`
- `function add_item($artnr, $num) {`
- `$this->items[$artnr] += $num;`
- `}`
- `}`
- `?>`



MySQL

- F/OSS Database server
- Simple Relational Database
- Works well with PHP

MySQL::SQL

- Command line
 - Windows: Run->cmd->...
 - Linux: Terminal/Shell
 - `mysql -u <username> -p <database_name>`
 - `mysql -u root -p sahana_db`
- GUI
 - PHPMyadmin
 - MySQLCC
 - MySQLAdmin



- Server - localhost
- Database - test
- Table - ...
- Username - root
- Password - ?

- `<?php`
- `$conn = mysql_connect('localhost');`
- `echo $conn;`
- `?>`
- -----
- `<?php`
- `$conn = mysql_pconnect('localhost');`
- `echo $conn;`
- `?>`



SQL

- Structured Query Language
 - INSERT
 - INSERT INTO <tablename>(col1,col2) VALUES (val1,val2);
 - SELECT
 - SELECT * FROM <tablename>;
 - SELECT name,address FROM people_table WHERE location='Manilla';



```
<?php
// Make a MySQL Connection
mysql_connect("localhost", "admin", "1admin") or
die(mysql_error());
mysql_select_db("test") or die(mysql_error());

// Create a MySQL table in the selected database
mysql_query("CREATE TABLE example(
id INT NOT NULL AUTO_INCREMENT,
PRIMARY KEY(id),
name VARCHAR(30),
age INT)")
or die(mysql_error());

echo "Table Created!";

?>
```



```
<?php
mysql_pconnect("db.server.com","username","password");
mysql_select_db("products");
$result = mysql_query("SELECT * FROM details");
if ($result) {
    echo "<TABLE>\n";
    echo
"<TR><TH>Name</TH><TH>Description</TH></TR>\n";
    while ($a = mysql_fetch_array($result)) {
        echo "<TR><TD>$a[name]</TD>",
"<TD>$a[descr]</TD></TR>";
    }
    echo "</TABLE>";
} else {
    echo "<P>Nothing to see here.";
}
?>
```

