CS 547

Week 3 Day 2 PHP & MySQL

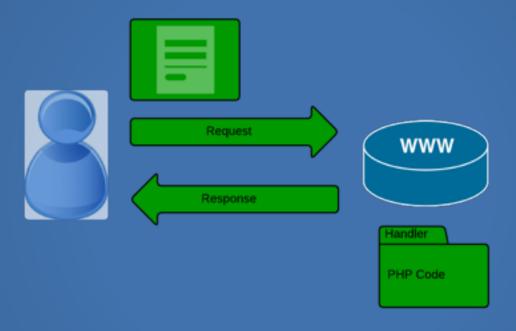
Agenda

MySQL
Assignment 1

Review

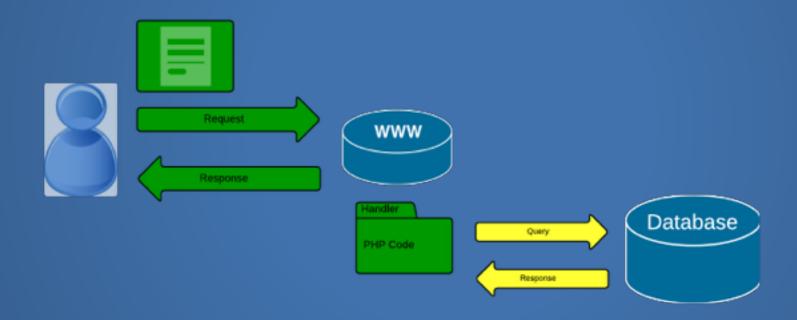
From previous lecture

Recall



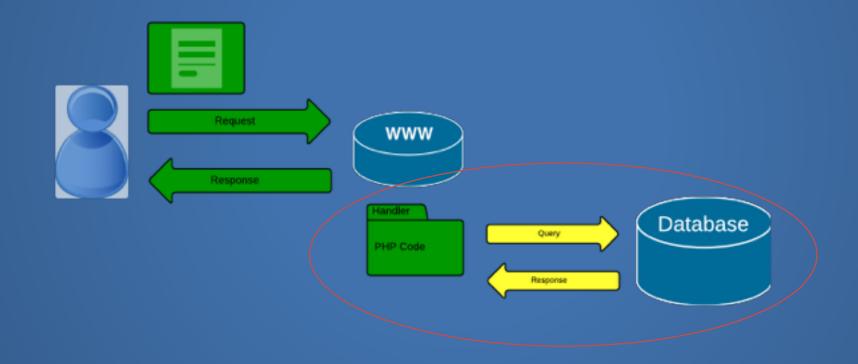
Dynamic Web Sites

Introduce a new 'layer' to the picture



Dynamic Web Sites

We will focus on the php – database part



PHP MySQL

Two correct ways for connecting to database MySQLi – mysq

PDO – php Data Objects

PHP MySQL

One old – Deprecated way

mysql_* api

Which api to use?

MySQLi Simpler syntax Richer API

PDO
Faster
Supports other Databases
Object Oriented

\$

```
echo ("Connection Success.");

$sql='SELECT * FROM mytable '; // $sql='SELECT * FROM mytable WHERE condition';

$rs=$conn->query($sql);

if($rs === false) {

trigger_error('Wrong SQL: '. $sql. ' Error: '. $conn->error, E_USER_ERROR);

} else {

$rows_returned = $rs->num_rows;

echo ("Found " + $rows_returned + " rows.");

$rs->data_seek(0);
```

```
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```

Iterate over recordset

- Using MYSQLI_ASSOC an associated array is returned, MYSQLI_NUM an enumerated one and MYSQLI_BOTH both of them.
- WARNING: fetch_all is available only with MySQL Native Driver.

More sql commands

```
Record count

$rows_returned = $rs->num_rows;

Move inside recordset

$rs->data_seek(10);

Free memory

Optional:

$rs->free();
```

SQL Insert Command

```
$v1="". $conn->real escape string('col1 value')."";
$sql="INSERT INTO mytable (name_varchar, age_number) VALUES ($v1,10)";
                      if($conn->query($sql) === false) {
trigger_error('Wrong SQL: ' . $sql . ' Error: ' . $conn->error, E_USER_ERROR);
                                  } else {
                    $last inserted id = $conn->insert id;
                   $affected rows = $conn->affected rows;
```

SQL UpDate

SQL Delete

```
$sql="DELETE FROM mytable WHERE id>10";
```

SQL Pattern

The commands we just covered follow a common pattern: CRUD

C == Create a record

R == Read one or more records

U == UpDate one or more records

D == Delete a records

This CRUD pattern is at the heart of modern dynamic websites.

File Layout

To facilitate your web development it is recommended that you organize your files in some particular way. There are two choices

Hierarchically

One Big Mess

PHP External Files

PHP has four ways for incorporating external files

```
include();
include_once();
require();
require_once();
```

Include VS Require

When successful, both give same behavior; however, they have different behavior on error.

Function	Successful	Fails
include();	Same	warning - continue
include_once();	Same	warning - continue
require();	Same	Error printed - halt
require_once()	Same	Error printed - halt

Paths Matter

There are two types of paths

- Absolute Start at the top of the file system C:\xamp\htdoc\
- Relative Start at the file localtion in the file system include('../ex2/file_proc.php');

File extension also matter

Remember that files with a *.html extension are sent to the browser without any (if any checking).

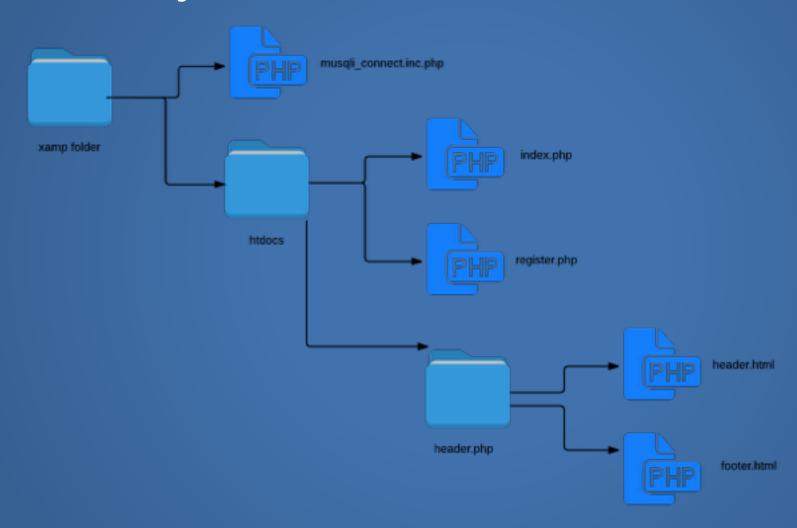
Files with a *.php are preprocessed by PHP before being sent to the browser.

It is recommended that you use

*.inc.php for files that include sensitive information

*.inc.html for files that do not include sensitive information

Website Layout



First Assignment

The first assignment is posted on BlackBoard we will go over it now

Due April 6th 2015 at 5:30 pm PST