

CS3431: PHP/mySQL Instruction

1 Setup

1. Create your .php file under public_html directory on CCC. The permissions of both files and directories should be set by “chmod 0755”. Otherwise, your scripts will not run.

2. PHP is set up on WPI CCC as a standard interpreter. PHP scripts will need to begin with this line:

```
#!/usr/local/bin/php
```

PHP scripts that do not begin with this line will NOT run.

An exception of the above case is that, if you are including a .php file into a .php file, the line above should be at the top of the first .php file, and NOT in the included one. Failure to do it this way will result in that line displaying on the actual Web page.

3. To run the scripts, simply access: <http://www.wpi.edu/~userid/file.php> in browser.

For more details, please refer to <http://www.wpi.edu/Pubs/Policies/Web/PHP/>

2 Write PHP/mySQL Query Code

Assume our mySQL database has a table a(a1 int, a2 int). Initially it contains tuples (1,1), (2,2), (3,3) and (4,4).

Below is a sample PHP code to display this table in the following format:

Column1	Column2
1	1
2	2
3	3
4	4

1. DB user and password should be in a separate php file by WPI policy, e.g., password.php contains:

```
<?php
$db_name=your_dbname;
$db_host="mysql.wpi.edu";
$db_username=your_userid;
$db_pw=your_password;
?>
```

2. Main .php code

```
#!/usr/local/bin/php
<html>
<head><title>Display a Table</title></head>
<body>
<?php

include_once("password.php"); /* password in a separate file for safety issues */

$db = mysql_connect($db_host, $db_username, $db_pw); /* Connect to database */
mysql_select_db($db_name,$db);

$result = mysql_query("SELECT * FROM a",$db); /* Run SQL */

/* Fetch each row and print it in a table-format in HTML */
if ($myrow = mysql_fetch_array($result)) {
    echo "<table border=1>\n";
    echo "<tr><td>Column1</td><td>Column2</td></tr>\n";
    do {
        printf("<tr><td>%s</td><td>%s</tr>\n", $myrow["a1"], $myrow["a2"]);
    } while ($myrow = mysql_fetch_array($result));
    echo "</table>\n";
} else {
    echo "Sorry, no records were found!";
}
?>
</body></html>
```

3 Write PHP/mySQL Update Code

Besides querying the database, sometimes we want to update the database, e.g., insert a new row via user input from HTML FORM. Below is the sample code:

```
#!/usr/local/bin/php
<html>
<head><title>Insert a new row to Table</title></head>
<body>
<?php

include_once("password.php");
```

```

if ($submit) {
    // process form
    $db = mysql_connect($db_host, $db_username, $db_pw);
    mysql_select_db($db_name,$db);
    $sql = "INSERT INTO a VALUES ('$a1','$a2')";
    $result = mysql_query($sql);
    echo "Thank you! Information entered.\n";
}
else{
    // display form
    ?>
    <form method="post" action="<?php echo $PHP_SELF?>">
    A1:<input type="Text" name="a1"><br>
    A2:<input type="Text" name="a2"><br>
    <input type="Submit" name="submit" value="Enter information">
    </form>

    <?php
    } // end if
    ?>
</body>
</html>

```

Sample Execution:

A1:

A2:

After submission, re-run the display table script. We get

Column1	Column2
1	1
2	2
3	3
4	4
5	5

4 Some Other Resources

Templates: on CCC: /www/docs/PHP/DB/*.php