

Web accessible Databases

PHP

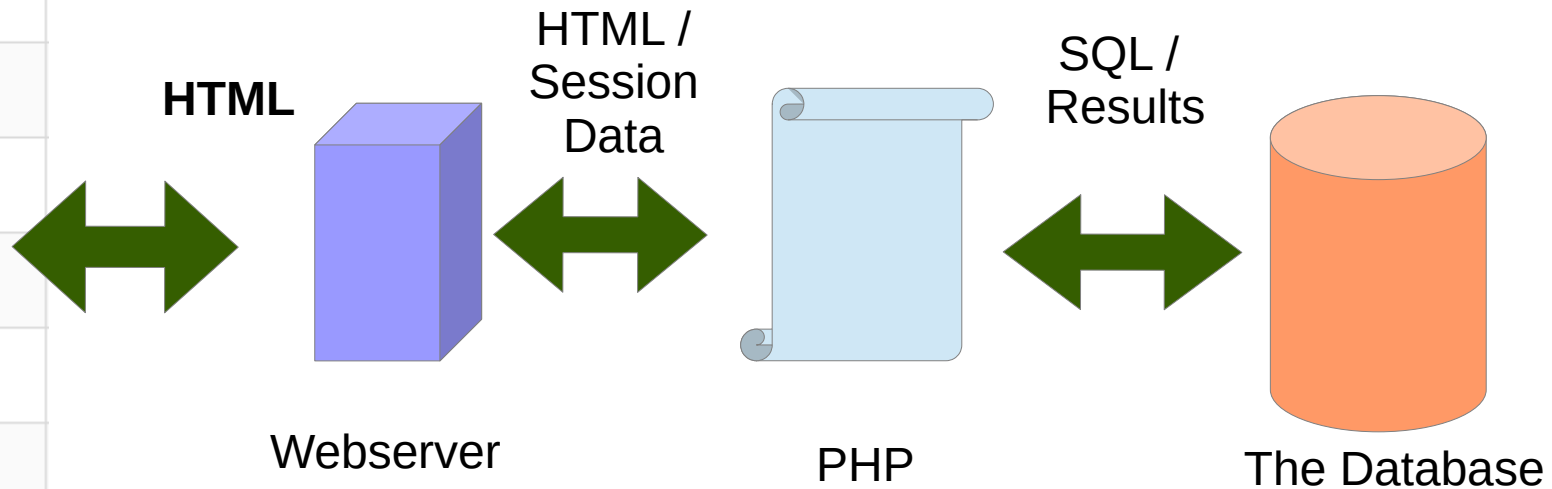


www.php.net
<http://www.codelite.org>

Database Usage Scenario

The PHP is used to generate HTML.

Discussion
A1: File contents
A1. Query 4
A1: Nonexistent Products
A1: Ordering By Salary
A1: Duplicate Data
A1: Triggers?
A1: How long should names be?



User

Overview

- Data flow
 - html, php, sql, sessions
- HTML
- PHP
 - variables
 - control flow
 - connect to MySQL
 - HTML forms
 - Sessions
 - Authentication
 - binary data

Today's examples will be at:
<https://64.59.233.245/php/pdoExamples>

</srv/www/htdocs/php/pdoExamples>

You have web space at:
</srv/www/htdocs/php/PUNETID>

<https://64.59.233.245/php/PUnetID>

<https://64.59.233.245/test.php>

Recommended Development Process

- Launch ssh tunnel to mysql Everything is done on the local machine
- dbeaver USE VERSION CONTROL, SVN or Git
 - Test your queries Work out the queries before you start building the PHP and web pages.
- CodeLite
 - write PHP
 - publish your work to /srv/www/htdocs/php/PUNETID on the local machine!
- Open a web browser
 - http://localhost/php/PUNET/file.php
- Use the debugger!
 - or use the command line
php file.php Upload work to 64.59.233.245 /srv/www/htdocs/php/PUNETID for grading.

Coding

- Coding Standards
 - use file and function header comments as in C
 - two spaces for a tab
 - break the line at 78 characters

```
/******  
Function:      getAllSoftwareProducts  
Description:   Get all software name, versions, and manager  
Parameters:    $DBConn - the database connection  
Returned:     An array containing the results.  
*****/
```

Coding Standards

- <http://pear.php.net/manual/en/standards.php>
 - we will use these
 - well organized
 - similar to our own C/C++
 - only downside: `if (test) {`
- Other popular standards:
 - <http://www.php-fig.org/psr/psr-1/>
 - <http://www.php-fig.org/psr/psr-2/>
 - <http://symfony.com/doc/current/contributing/code/standards.html>