



Course Content

Course Description:

MySQL and PHP are two of the most popular open source technologies to emerge during the past decade. PHP (Hypertext Preprocessor) is a powerful, portable, efficient scripting language written for web development. Its functionality far exceeds that of many other programming languages such as ASP or JSP. MySQL is the world's most popular open source client-server database. Its architecture makes it extremely fast, reliable, and easy to customize. Together, these two technologies provide you with a powerful platform for building database-driven Web applications. This extraordinarily hands-on MySQL and PHP training course covers everything attendees need to successfully build data-driven Web sites using MySQL and PHP.

Fluency in HTML and mastery of at least one major programming language such as Perl, Visual Basic, JavaScript or Java. Experience with SQL strongly recommended

Prerequisites:

Topics:

Installing and Configuring MySQL

- Various MySQL Distributions
- Installing MySQL on Windows
- Installing MySQL for Linux

Installing Apache

- Installing Apache for Windows
- Installing Apache for Linux/UNIX

Installing PHP

- Installing PHP for Windows
- Installing PHP for Linux

THE ABSOLUTE BASICS OF CODING IN PHP

Mixing PHP and HTML

- How PHP is Parsed
- PHP Start and End Tags
- Code Cohabitation
- Escaping Your Code
- Commenting Your Code

Introducing Variables and Operators

- What's a Variable?
- PHP Variable and Value Types
- What's an Operator?

- Creating the Upload Script
- Uploading a File Using Your Form and Script

GETTING TO KNOW YOUR DATABASE

Establishing a Connection

- Working with User Privileges in MySQL
- Connecting to MySQL
- Listing Databases on a Server
- Listing Tables in a Database
- Creating a New Database
- Deleting a Database

Creating a Database Table

- Planning for Your Tables
- A Two Step Form Sequence
- Creating the Table Creation Script
- Creating a Table

Inserting Data into a Table

- Creating the Record Addition Form
- Creating the Record Addition Script
- Populating Your Table

Selecting and Displaying Data

- Planning and Creating Your Administrative Menu



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- Selecting Data from the my_music Table

USER AUTHENTICATION AND TRACKING

Database-Driver User Authentication

- Why Authenticate Anyone?
- Creating the User Table
- Adding Users to Your Table
- Creating the Login Form
- Creating the Authentication Script
- Trying to Authenticate Yourself

Using Cookies

- What's a Cookie?
- Setting Cookies
- Using Cookie Variables

Using Variables

- Getting Variables from Forms
- HTTP Environment Variables

START WITH SIMPLE STUFF

Displaying Dynamic Content

- Displaying Browser-Specific HTML
- Displaying Platform-Specific HTML
- Working with String Functions
- Redirecting to a New Location

Sending E-Mail

- Using an SMTP Server
- A Simple Feedback Form
- A Feedback Form with Custom Error Messages

Using Your File System

- File Paths and Permissions
- Displaying Directory Contents
- Working with fopen() and fclose()
- File System Housekeeping

Uploading Files to Your Web Site

- Check Your php.ini File
- Understanding the Process
- Creating the Form

Session Basics

- Check php.ini
- What's a Session?
- Understanding Session Variables
- Managing User Preferences with Sessions

CREATING YOUR OWN CONTACT MANAGEMENT SYSTEM

Planning Your System

- Planning and Creating the Administrative Menu
- Defining the my_contacts Table

Adding Contacts

- ● Creating the Record Addition Form
- ● Creating the Record Addition Script
- ● Populating Your Table
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Modifying Contacts

- Creating the Record Selection Form
- Creating the Record Modification Form
- Creating the Record Modification Script
- Modifying Contacts

Deleting Contacts

- Using the Record Selection Form
- Creating the Record Deletion Form
- Creating the Record Deletion Script
- Deleting Contacts

Working with Contacts

- Modifying Your Administrative Menu
- Selecting Data from the my_contacts Table

ADDITIONAL ADMINISTRATION SCRIPTS

Managing a Simple Mailing List

- A Brief Word about Mailing List Software
- Developing a Subscription Mechanism
- Developing the Mailing Mechanism



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Creating Custom Logs and Reports

- Apache Log Files
- Simple Access Counting with My SQL