Intermediate PHP & mySQL

Course Summary

Description

This class lets PHP coders become PHP application developers. Going beyond basic PHP and mySQL techniques, the emphasis of this class is to develop real-world web-based applications. This class ends with a real-world PHP project to tie together all the newly-acquired skills.

Objectives
At the end of this course, students will be able to:

- Create databases comprising multiply-linked tables
- Create PHP-based applications
- Use Smarty templates for generating multi-page applications with a consistent look-and-feel
- Enforce access and data security for web applications.
- Use object-oriented techniques to create reusable objects.
- Perform sophisticated SQL queries
- Create stored procedures and functions
- Use triggers for data

Topics

- Reviewing PHP and MySQL
- Object-oriented PHP
- Session management
- Using Pear::MDB2
- Efficient MySQL coding
- Advanced Database techniques
- Using PHP Templates
- Creating PHP Extensions
- Putting it all together – developing a real-world application

Audience

This course is designed for beginning to intermediate PHP programmers

Prerequisites

Students should have some experience with PHP. They should be comfortable with forms and basic database access.

Duration

Four days

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... to Your Success!"

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Course Outline

I. Reviewing PHP and MySQL
- A. A simple PHP-based form
- B. PHP Data
- C. Using MySQL
- D. Managing databases

II. Object-oriented PHP
- A. OO Concepts
- B. Creating classes
- C. Constructors and destructors
- D. Instance data and methods
- E. Static data and methods
- F. Overloading

III. Session management
- A. User authentication
- B. Understanding state
- C. Robust sessions
- D. Session management tools
- E. Maintaining sessions across servers
- F. Cookies
- G. Maintaining user profiles in MySQL

IV. Using Pear::MDB2
- A. Connecting to databases
- B. Preparing statements
- C. Executing statements
- D. Fetching data from queries
- E. Maintaining tables

V. Efficient MySQL coding
- A. Triggers
- B. Stored procedures and functions
- C. Keys and indices
- D. Analyzing and Optimizing queries
- E. Access control

VI. Advanced Database techniques
- A. Design patterns
- B. Letting PHP do the work

VII. Using PHP Templates
- A. Available templates
- B. Template concepts
- C. Using Smarty
- D. A simple Smarty Application

VIII. Creating PHP Extensions
- A. Reviewing PEAR
- B. Creating classes for extensions
- C. Configuration files
- D. Packaging extensions

IX. Putting it all together – developing a real-world application
- A. Application requirements
- B. Functional specs
- C. Application architecture
- D. Coding the app