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PHP Programming

(4 days)

Course overview

PHP is a popular scripting language for creating dynamic web sites, and is widely used in many major commercial web sites in industry.

This course describes how PHP fits in to the 'LAMP' stack of open-source technologies (Linux, Apache, MySQL, and PHP), and then gets you up to speed developing data-driven web applications using PHP and MySQL. We explore PHP syntax and techniques in detail, and show how this dovetails with MySQL to interact with back-end databases.

What you'll learn

- Understanding the LAMP platform
- Writing PHP script to create dynamic web pages
- Working with text, regular expressions, and XML
- Using MySQL to interact with databases
- Writing object-oriented PHP code
- Working with web services

Prerequisites

- Experience in HTML and/or XML
- Familiarity with database design and OO beneficial

Course details

- **Understanding the LAMP Architecture:** Overview of LAMP technologies; Installing Apache, PHP, and MySQL; Getting ready to develop
- **PHP Language Fundamentals:** Overview of core PHP syntax rules; Data types and variables; Constants; Flow control
- **Working with Functions:** The benefit of functions; Writing and calling functions; Passing parameters
- **Working with Strings and Arrays:** String manipulation; Creating arrays; Iterating over arrays; Using regular expressions
- **Working with XML:** Overview of XML; Using the PHP XML parser; Parsing XML data; Creating XML data
- **Handling Exceptions:** Overview of exceptions; Defining a custom exception handler; Terminating statements; Reporting errors
- **Using MySQL:** Overview of Data Source Names (DSNs); Understanding PHP Data Objects (PDO); Executing SQL queries using PDOs; Displaying query results in a web page

- [Writing object-oriented PHP](#): Overview of object-oriented concepts; Implementing encapsulation in PHP; Implementing inheritance in PHP
- [Web services](#): Overview of web services and Ajax; Overview of JSON; Working with Web services in PHP