

PHP



CURRICULUM

6 WEEKS

» Hands-On Training

In this course, you develop PHP scripts to perform a variety of tasks, culminating in the development of a full database-driven Web page. Exercises include:

- Accessing command line arguments from PHP scripts
- Generating web pages dynamically using PHP
- Retrieving Web Pages manipulating from data
- Personalizing Web site content using Session and Cookies
- Tracking user navigation on your Web site
- File handling with PHP script
- Regular Expression with PHP to Make strong validation
- Object Oriented Concept to make more Powerful Web Application
- Exception Handling
- Integrating database content to generate dynamic Web pages
- Building modular Scripts to enable code reusability

» Programming with PHP

- Origins of PHP in the open source community
- Why we use PHP?
- Some of PHP's strengths:
- Some of PHP's main competitors are PERL, Microsoft ASP.NET, JavaServer Page (JSP) and Cold Fusion. In comparison to these products, PHP has much strength
- Availability across multiple platforms
- Installing as a module for Apache Web Server and Microsoft Internet information server

» PHP language building blocks

- Comparing PHP with other Web scripting languages or technology
- PHP delimiters
- Variable initialization with PHP
- Investigating PHP data types

» Writing PHP scripts

- Storing values in scalar variables
- Employing arrays
- Building Complete scripts incorporating loops and conditional expressions
- Operators

» Writing Web Pages with PHP Interacting with the server

- Outlining Web Protocols
- Embedding PHP code into HTML pages
- Employing shortcuts to display single PHP scripts
- Determining how data is sent from forms to PHP scripts

» Manipulation user input

- Presenting the user with input options via different HTML form elements
- Retrieving form data with \$_POST, \$_GET and \$_REQUEST[] arrays
- Validating retrieved data
- Strategies for handling invalid input
- Storing state information using cookies
- Tracking users identification

» Applying Advanced Scripting Techniques Exploiting the built-in functionality of PHP

- Formatting data and time information
- Manipulating string data
- Reading and writing data using file I/O functions
- Investigating other built-in features

» Structuring PHP Code

- Writing user-defined functions to structure your code
- Passing arguments and default values to functions
- Returning data from functions
- Accessing global variables
- Building code libraries for reusability
- Incorporating external PHP scripts with include, include_once, require and require_once

» Building Complete Web Applications Managing errors

- Investigating the HTTP header
- Suppressing on-screen error messages on production servers
- Configuring the php.ini file to control error messages

» Handling problematic situations

- Troubleshooting problems when manipulating data
- Redirecting the browser to other pages
- Modifying the PHP configuration file to suit your needs
- Developing debugging strategies

» Establishing database connectivity

- Why use MySQL?
- Some of MySQL's Strengths
- What is RDBMS technology?
- SQL and their basics need
- Creating and managing database connections
- Sending queries to the database server employing most efficient methods
- Retrieving query results as associative arrays
- Looping through databases
- Displaying returned data on Web Pages
- Avoiding Potential problems by managing and backslashes in data
- Closing the database connection

» String Manipulation and Regular Expression

- Formatting string for Presentation
- Formatting String for Storage
- Joining and Splitting String
- Comparing Strings
- Matching and replacing substring
- Pattern matching

» Table of Contents

Basic Syntax and programming with PHP:

- PHP delimiters
- Creating User Defined Variable
- Assigning values to scalar variable
- Data type with PHP
- Type casting
- Type testing
- Declaring and Using Constants
- Understanding Operators and Precedence
- Evaluating Expressions
- Making decision with if, else and switch
- Advantage of iteration using while, do and for loops
- Comments with PHP

» PHP with Web Design

- Use of HTML of web design purpose
- HTML scripts and form's element
- Embedding PHP in HTML
- Redirecting web pages
- Adding dynamic content
- Super global Variable
- Interact with server using GUI

» Introducing ARRAY

- How to use an important programming construct: arrays
- Numerically Indexed arrays
- Non-Numerically Indexed arrays
- Array operators
- Multidimensional arrays
- Array sorting
- Array sorting
- Array Functions
- Converting Arrays to Scalar Variables

» Interacting with the file system and the Server

- Saving data for later using file system
- Opening a file Creating and Writing to a file
- Creating and Writing to a file
- Closing a file
- Reading from file
- Deleting a file
- Using other useful file functions
- Create a directory
- Remove a directory

» String Manipulation and Regular Expression

- Formatting string
- Joining and Splitting String
- Comparing Strings
- Matching and replacing substrings with string functions
- Introducing Regular Expressions
- Character sets and classes
- Repetition
- Subexpressions
- Counted Subexpressions

- Anchoring to the Beginning or End of a string
- Branching with Regular expression
- Matching Literal Special Characters
- Matching and replacing substring with Regular Expressions
- Splitting String with Regular expressions

» Reusing Code and Writing Functions

- Introducing Functions
- Defining functions
- Using parameters
- Understanding scope
- Returning values
- Calling by value versus Calling by reference
- Implementing recursion
- Reusing Codes
- Using Require() and include()

» Object Oriented PHP

- Object oriented concepts
- Classes, objects and operations
- Class attributes
- Per-class constants
- Class method invocation
- Access Modifier
- Static method
- Type Hinting
- Object Cloning
- Abstract class
- Final keyword
- Inheritance
- Implementing interface
- Understanding Advance and New Object Oriented functionality
- Implementing iterators and iterations
- Magic functions with PHP
- Exception control structures try...catch...throw
- The Exceptions class
- User defined exception

» Session and Cookie

- What Session Control is?
- Understanding Basic Session Functionality
- What is a Cookie?
- Setting Cookies with PHP
- Using Cookies with Sessions
- Deleting Cookies
- Starting a Session
- Registering Session variables
- Using Session Variables
- Destroying the variables and Session

» MySQL Database and SQL

- Relational Database Concept and technology
- Web Database Design
- Web Database Architecture
- Creating a MySQL Database
- Setting up Users and Privileges
- Creating Database Tables
- Column Data Types
- What is SQL?

- Implementing Insert/Delete/Update and select Query
- Joining Table
- Dropping Tables and Databases
- Setting up connection with PHP and MySQL
- Choosing Database to Use
- Disconnection from the Database
- Advance MySQL Programming

» Advance PHP Techniques

- Introduction about FTP/SMTP server
- Math functions
- File upload
- File Download
- PDF generation
- E-mail with PHP
- PHP configuration file
- Error tracking and debugging

» JavaScript & CSS

- Introduction to JavaScript
- Form Validation using JavaScript
- Implementing CSS

» Wordpress

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